Validation of CREST

by

Abhinav Gupta

Jun Zhao

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Enhancement Project For
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Interim Report

October 1995

Center for Nuclear Power Plant
Structures, Equipment and Piping

North Carolina State University
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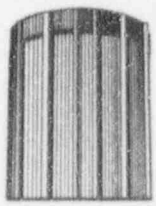

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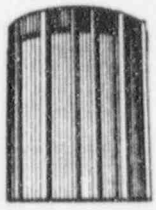


Contents

1 Introduction

The computer program CREST performs response spectrum analysis of coupled primary-secondary systems. For the present application, building is a primary system and piping system the secondary. To perform the analysis of a coupled system, CREST must be interfaced with a piping analysis program, which in the present case is PIPESTRESS. We are validating CREST against ANSYS by comparing the response spectrum results from the former with the time history results from the latter for three real-life-like building-piping coupled systems. Mode shapes and frequencies of the coupled systems calculated using the two programs are also compared. The validation analyses and the comparison of results for the first of the three building-piping systems are presented in this interim report.

2 Pressurizer Spray Line

Pressurizer spray line is the first of three piping systems used for validation of the computer program CREST. The validation is performed by comparison with a direct integration time history analysis of the coupled piping-building model. The pressurizer spray line is shown in Fig.1 and the primary system used for this piping system is shown in Fig.2. The piping system consists primarily of a 2.5 inch diameter, schedule 160 pipe. Two relatively small segments of this piping have different cross sections with diameters of 0.5 inch and 1.5 inch, respectively. The modulus of elasticity for the steel pipe is taken as 28.3E06 psi and the piping is assumed to be filled with water. The piping is supported on a total of 3 anchors, 19 snubbers and 5 spring type supports. Table 1 gives the stiffnesses of these supports and the global direction in which each support is active. The table also lists the weight of the supports bearing on piping system and the connectivity of each support with the building model in terms of building node numbers. As seen in this table, the stiffnesses of spring supports are very small compared to the stiffnesses of snubbers. The spring supports do not have any significant effect on the member forces and support reactions. These supports have not been shown in Fig.1, however, they are included in the analysis. Fig.2 gives the node numbers, floor elevations and structural properties of various elements in the three dimensional stick model of the primary system. The translational

and rotational anchor stiffnesses used in this analysis are 1.0E08 kips/in and 8.33E08 ft-kips/radian, respectively. The coupled piping-building model is assumed to be classically damped. Therefore, undamped eigenvectors and eigenvalues are evaluated in the solution of eigenvalue problem in CREST.

2.1 Input and Output Files

Various input and output files are ~~stored on the enclosed diskette~~ attached. The ANSYS input and output files for modal analysis of the coupled piping and building model are *cpmodal.in* and *cpmodal.out*, respectively. ANSYS was also used to perform time history analysis of the coupled model for two different earthquake records, El Centro 1940 (S00E) and Taft-Lincoln School 1952 (S69E). The ANSYS input file when El Centro is used is *pb2ecx.in*. Results are stored in two files, one each for pre- and the post-processing of the data. The two files are named *pb2ecx.out* and *pb2ecx1* for the El Centro analysis. For the Taft record, input file is named *pb2tfx.in* and the output files are *pb2tfx.out* and *pb2tfx1*, respectively. The output files contain member forces and support loads for several time intervals. Due to large size of the problem, maximum response values are evaluated internally by ANSYS for every 2 seconds interval. Therefore, theses files contain solution output for 10 such intervals that lie between 0 to 20 seconds. Since all the maximum responses occur much before 20 seconds, the output files contain responses up to 20 seconds only.

The interface between CREST and PIPESTRESS for performing the response spectrum analysis of the coupled model is explained in reference [3]. The piping system is modeled on PIPESTRESS and the corresponding input file is *ps1.in*~~in~~ dat. The floor response spectra are specified in the PIPESTRESS input file only for the purpose of generating the unit solutions needed by CREST. The spectral values are redundant and not used. CREST needs an additional file that contains information about the dynamic properties of uncoupled primary system, the control data and the connectivity data. This file also contains information about the response spectra at the base of primary system to be used as the input ground motion. The name of this input file corresponding to the El Centro record is *crelcent.in* and that to Taft is *crtaft.in*. The output files generated by CREST for the two earthquake records are *crelcent.out* and *crtafi.out*, respectively. The input response spectra at the base of primary sys-

tem is evaluated at the exact values of coupled frequencies and the modal damping ratios. This procedure eliminates any uncertainties that may be introduced in the interpolation process. The dynamic properties of the primary system used in these input files were generated by performing an uncoupled modal analysis using ANSYS. The input file for this analysis is *primary.in* and the output file is *primary.out*. The dynamic properties of the primary system were used to evaluate the residual mode of the uncoupled primary system according to the procedure given in references [2, 3].

2.2 Damping Calculation

Rayleigh damping is used in the ANSYS time history analysis which is given by

$$[C] = \alpha [M] + \beta [K] \tag{1}$$

in which α and β are proportionality constants. These constants are evaluated using the frequencies of the coupled model. For coupled mode i we can write

$$2\zeta_i \omega_i = \alpha + \beta \omega_i^2 \tag{2}$$

in which ω_i and ζ_i are the circular frequency and the damping ratio in mode i. In the present analysis, it is assumed that the coupled modes with the lowest and the highest frequencies have a damping ratio of 0.05. The lowest coupled mode has a frequency of 1.3145 Hz. and the highest mode has a frequency of 32.917 Hz. These frequencies together with $\zeta_i = 0.05$ when substituted in equation 2 give

$$\alpha = 0.7941209 \qquad \beta = 0.000466231 \tag{3}$$

Once the parameters α and β are evaluated, the modal damping ratios for other modes can be evaluated directly using equation 2. Table 2 gives the damping ratios evaluated using this procedure for each mode of the coupled system.

3 Results and Discussion

Frequencies and damping ratios for the coupled system are given in Table 2. The coupled mode shapes for the non-rigid modes obtained from ANSYS are compared with those from CREST. The plots for two sets of mode shapes are shown appendix.

Three different curves are plotted for each coupled mode shape, one corresponding to the modal displacements in each of the three global directions. In each plot, the node numbers corresponding to the piping system are plotted on the x-axis and the modal displacement on the y-axis. As seen from these figures, the mode shapes from the two programs are in excellent agreement with each other. The plots corresponding to the coupled modes 12 and 14 (frequencies = 10.1792 and 12.0367 Hz., respectively) appear to show large differences in the curves. In these modes, the significant displacements occur in the primary system degrees of freedom. Very small (negligible) displacements occur in the piping system degrees of freedom. Plots of negligible displacement values on a large scale magnifies the differences. These mode shapes result in negligible response values in the piping system. Tables 3 and 4 compare the significant member forces and support loads in the piping system from ANSYS time history analysis using El Centro record with the corresponding values obtained from a response spectrum analysis using CREST. Tables 5 and 6 compare the corresponding values from the two programs for Taft earthquake input. As seen from these tables, the agreement between the two sets of analyses is good. Agreement in the two sets of analyses is better for Taft input than for the El Centro input. Reasons for larger differences in some forces for El Centro input were explored. Anchor reaction in global x-direction, F_x, at node number 1 is studied in detail. Table 7 gives the values of modal responses for F_x in all the coupled modes. CREST evaluated response in each coupled mode also includes the effect of missing mass. Combination of these modal responses using 10 % grouping method of mode combination [5] gives F_x = 99.5 lb which is only 1% more than the value of 98.5 lb evaluated by CREST and much lower than the value of 148 lb given by the time history analysis. The fact that the two response spectrum values are almost equal and both much less than the time history value demonstrates that the difference in forces evaluated using the time history and the response spectrum method comes from the inherent differences in the two methods of analyses and is unrelated to the specific CREST methodology.

The phenomenon was studied further taking the force F_x in anchor 1 as an example. As seen from table 7, significant contribution to the total force comes from modes numbered 2,3 and 5 that have frequencies of 1.5867 Hz., 2.8009 Hz. and 3.60057 Hz., respectively. The forces in the three modes are 49.171 lb, -52.396 lb and -59.849 lb, respectively. ANSYS time history analysis output shows that the absolute maximum

of the force F_x occurs at 4.56 seconds. Therefore, the time histories of modal responses from these three modes were studied for a period of 3 seconds between 3 to 6 seconds. Fig. 3 shows the plots of the histories of three modal responses and also the history of the combined response from these three modes. As seen from the figure, the modal responses from three modes have same signs at 4.56 seconds. None of these modal forces have their maximum values at the particular instant of time. However, these values are large enough that the combined force in these modes is 110 lb. The corresponding values from the 10% grouping method and CREST are 93.5 lb and 95.5 lb. The three modes do not form any group within the 10 % frequency range. Therefore, the combined response given by the 10 % grouping method [5] is equivalent to the SRSS combined response. For mode combination in CREST [4], the correlation coefficients between the three modes are: $\bar{\epsilon}^d_{23} = 0.0$, $\bar{\epsilon}_{25} = 0.07$ and $\bar{\epsilon}^d_{35} = 0.0$ The only non-zero correlation term is $\bar{\epsilon}^d_{35}$ which is also negligible. That in effect renders the CREST modal combination into the SRSS combination.

The above example illustrates the inherent differences in a time history and the response spectrum analyses. In general, no one-to-one correspondence exists between the time history method and the response spectrum method. On the "average", response spectrum method gives responses that are close to the responses obtained from a time history analysis. On an individual basis, response spectrum may give responses that are either more or less in magnitude than the time history analysis. A detailed explanation of the differences in the two methods is given in section 3.3 and table 3.2 in reference [1].

References

[1] Gupta, A.K., " Response Spectrum Method In Seismic Analysis and Design of Structures", Blackwell Scientific Publication, Boston, MA, 1990; CRC Press, Inc., Boca Raton, FL, 1992.

[2] Gupta, A. and Gupta, A.K, "Coupled Analysis of Piping Systems Including the Effect of High Frequency Modes," *Report*, Center for Nuclear Power Plant Structures, Equipments and Piping, Department of Civil Engineering, North Carolina State University, Raleigh, NC, 1994.

[3] Gupta, A.K., Jaw, J.W. and Gupta, A., " CREST, A Computer Program for Coupled Response Spectrum Analysis of Secondary Systems, Interfaced with PIPESTRESS," *User's Manual,* , Center for Nuclear Power Plant Structures, Equipments and Piping, Department of Civil Engineering, North Carolina State University, Raleigh, NC, 1995.

[4] Megahed, H.A. and Gupta, A.K., "Topics in Seismic Response of Nonclassically Damped Systems," *Report*, Research Program on Nuclear Power Plant Structures, Equipments and Piping, Department of Civil Engineering, North Carolina State University, Raleigh, NC, August 1992.

[5] United States Nuclear Regulatory Commission, "Combining Modal Responses and Special Components in Seismic Response Analysis," *Nuclear Regulatory Guide*, No. 1.92.

Table 1: Support Details and Connectivity, Pressurizer Spray Line

Support Name	Support Type	Stiffness (lb/ in)	Mass (lb)	Global Direction	Connectivity (Building Node)
PSH2	Snubber	77000	25.2	Z	306
PSH3	Snubber	77000	25.2	X	306
PSH4	Snubber	77000	25.2	Y	307
PSH5	Spring	56	4.30	Y	307
PSH8	Snubber	77000	25.2	X	308
PSH12	Snubber	77000	25.2	Z	310
PSH15	Snubber	212000	43.2	Y	312
PSH17	Snubber	212000	40.2	X	312
PSH20	Snubber	77000	25.2	Y	312
PSH21	Snubber	77000	25.2	Z	312
PSH22	Spring	126	4.75	Y	312
PSH23	Spring	35	4.2	Y	312
PSH25	Snubber	77000	24.8	X	312
PSH26	Snubber	77000	24.8	Z	312
PSH27	Snubber	77000	25.2	Y	312
PSH29	Snubber	77000	25.2	Z	312
PSH31	Snubber	77000	25.2	X	312
PSH33	Spring	400	10.0	Y	312
PSH34	Snubber	77000	25.2	Z	312
PSH35	Spring	224	5.50	Y	312
PSH36 A	Snubber	77000	31.5	X	312
PSH36 B	Snubber	77000	31.5	Z	312
PSH37 A	Snubber	77000	31.5	X	312
PSH37 B	Snubber	77000	31.5	Z	312
ANCH1	Anchor	Rigid	0.00	X,Y,Z	304
ANCH2	Anchor	Rigid	0.00	X,Y,Z	309
ANCH3	Anchor	Rigid	0.00	X,Y,Z	312

Table 2: Frequencies and Damping Ratios, Pressurizer Spray Line

Mode No.	Frequency (Hz.)	Damping Ratio	Mode No.	Frequency (Hz.)	Damping Ratio
1	1.3145	0.050000	18	16.0903	0.027495
2	1.5867	0.042150	19	16.5975	0.028118
3	2.8009	0.026665	20	17.9594	0.029824
4	3.4301	0.023447	21	18.2559	0.030201
5	3.6006	0.022825	22	19.6406	0.031985
6	3.8984	0.021920	23	20.8892	0.033622
7	4.2591	0.021076	24	22.1696	0.035322
8	5.6890	0.019441	25	23.0565	0.036512
9	7.4677	0.019400	26	23.4915	0.037098
10	8.0710	0.019651	27	23.6251	0.037279
11	8.3071	0.019775	28	24.1809	0.038031
12	10.1792	0.021110	29	25.3193	0.039581
13	10.6266	0.021512	30	26.2363	0.040837
14	12.0367	0.022875	31	26.7325	0.041519
15	13.1299	0.024044	32	26.8858	0.041730
16	13.4392	0.024387	33	27.5432	0.042637
17	14.7927	0.025939	34	32.9170	0.050000

Table 3: Comparison of Support Responses in Pressurizer Spray Line, El Centro

Support		Response	ANSYS	CREST	Percent Difference
Node	Type	Quantity	A	C	(C-A)*100/Amax
1	Anchor	F_x	148	98	-7
	Anchor	F_z	83	94	2
	Anchor	M_x	139	151	3
	Anchor	M_y	458	358	-22
	Anchor	M_z	163	162	-0
87	Anchor	F_x	71	77	1
	Anchor	F_y	49	54	1
	Anchor	M_x	168	177	2
	Anchor	M_y	118	119	0
	Anchor	M_z	44	49	1
130	Anchor	F_x	47	47	0
	Anchor	M_z	64	67	1
9	Snubber	F_x	309	286	-3
10	Snubber	F_z	212	236	3
15	Snubber	F_y	254	262	1
23	Snubber	F_x	359	282	-11
28	Snubber	F_z	150	160	1
37	Snubber	F_y	221	229	1
39	Snubber	F_x	536	423	-16
45	Snubber	F_z	150	127	-3
124	Snubber	F_x	80	80	-0
57	Snubber	F_x	689	687	-0
73	Snubber	F_z	113	83	-4
131	Snubber	F_x	489	421	-10
133	Snubber	F_x	525	484	-6

F = Force (lb) M = Moment (ft-lb)

Amax = Maximum Force or Moment

Table 4: Comparison of Significant Member Responses in Pressurizer Spray Line, El Centro

Member End Nodes	Response Quantity	ANSYS A	CREST C	Percent Difference (C-A)*100/Amax
1 - 2	F_x	147	98	-10
	M_z	139	151	1
	M_y	458	358	-5
6 - 7	F_x	129	95	-7
	M_z	166	126	-2
9 - 10	F_x	194	178	-3
	F_z	78	87	2
	M_x	694	783	5
	M_z	768	668	-5
15 - 16	F_z	116	119	1
	M_z	797	732	-3
23 - 24	M_x	412	454	2
	M_z	1099	854	-13
35 - 37	F_y	219	229	2
38 - 39	F_x	225	183	-9
	M_y	1857	1508	-19
44 - 45	F_z	99	85	-3
	M_z	234	178	-3
56 - 57	F_x	476	487	2
71 - 72	F_x	412	381	-6
93 - 94	M_x	113	83	-2
101 - 102	F_z	164	162	-0
65 - 131	F_x	249	216	-7

F = Force (lb) M = Moment (ft-lb)

Amax = Maximum Force or Moment

Table 5: Comparison of Support Responses in Pressurizer Spray Line, Taft

Support		Response	ANSYS	CREST	Percent Difference
Node	Type	Quantity	A	C	(C-A)*100/Amax
1	Anchor	F_x	66	59	-3
	Anchor	F_z	41	39	-1
	Anchor	M_x	63	62	-1
	Anchor	M_y	143	158	11
	Anchor	M_z	104	102	-1
87	Anchor	F_x	23	25	1
	Anchor	F_y	18	19	1
	Anchor	M_x	57	63	4
	Anchor	M_y	35	36	1
	Anchor	M_z	16	16	-0
130	Anchor	F_x	14	14	0
	Anchor	M_z	19	20	0
9	Snubber	F_x	156	164	4
10	Snubber	F_z	98	97	-1
15	Snubber	F_y	115	108	-3
23	Snubber	F_x	149	132	-7
28	Snubber	F_z	62	65	1
37	Snubber	F_y	95	94	-0
39	Snubber	F_x	224	199	-10
45	Snubber	F_z	62	55	-3
124	Snubber	F_x	23	24	0
57	Snubber	F_x	240	215	-10
73	Snubber	F_z	41	37	-2
131	Snubber	F_x	141	128	-6
133	Snubber	F_x	156	146	-5

F = Force (lb) M = Moment (ft-lb)

Amax = Maximum Force or Moment

Table 6: Comparison of Significant Member Responses in Pressurizer Spray Line, Taft

Member End Nodes	Response Quantity	ANSYS A	CREST C	Percent Difference (C-A)*100/Amax
1 - 2	F_x	65	59	-3
	M_x	63	62	-0
	M_y	143	158	2
6 - 7	F_x	62	58	-2
	M_z	80	67	-2
9 - 10	F_x	104	104	0
	F_z	35	35	-0
	M_x	333	321	-1
	M_z	404	414	1
15 - 16	F_z	49	49	-0
	M_z	448	403	-5
23 - 24	M_x	175	185	1
	M_z	472	414	-7
35 - 37	F_y	96	95	-1
38 - 39	F_x	104	90	-13
	M_y	852	723	-15
44 - 45	F_z	34	34	0
	M_z	111	102	-1
56 - 57	F_x	180	159	-12
71 - 72	F_x	128	115	-7
93 - 94	M_x	48	41	-1
101 - 102	F_x	60	52	-5
65 - 131	F_x	75	67	-5

F = Force (lb) M = Moment (ft-lb)

Amax = Maximum Force or Moment

Table 7: Mode Combination Using 10 % Grouping Method [5] for Reaction F_x (lb) in Anchor at Node 1

Mode No.	Frequency (Hz.)	Modal Response	Mode Group No.	Response in Each Group
1	1.3145	6.121	1	6.121
2	1.5867	49.171	2	49.171
3	2.8009	-52.396	3	52.396
4	3.4301	-0.494	4	60.343
5	3.6006	-59.849	4	
6	3.8984	-0.122	5	2.134
7	4.2591	2.012	5	
8	5.6890	-0.031	6	0.031
9	7.4677	-4.209	7	4.553
10	8.0710	-0.344	7	
11	8.3071	0.061	8	0.061
12	10.1792	0.021	9	2.158
13	10.6266	2.137	9	
14	12.0367	21.166	10	21.849
15	13.1299	0.683	10	
16	13.4392	-0.313	11	0.313
17	14.7927	-0.037	12	0.037
18	16.0903	0.007	13	0.007
19	16.5975	0.031	14	
20	17.9594	-0.478	14	0.997
21	18.2559	-0.488	14	
22	19.6406	-0.037	15	1.978
23	20.8892	1.942	15	
24	22.1696	-0.113	16	
25	23.0565	2.159	16	
26	23.4915	15.701	16	18.463
27	23.6251	0.454	16	
28	24.1809	-0.036	16	
29	25.3193	0.885	17	
30	26.2363	2.130	17	
31	26.7325	-2.563	17	7.740
32	26.8858	0.902	17	
33	27.5432	1.259	17	
34	32.917	12.088	18	12.088
SRSS of Response in Each Group =				99.504

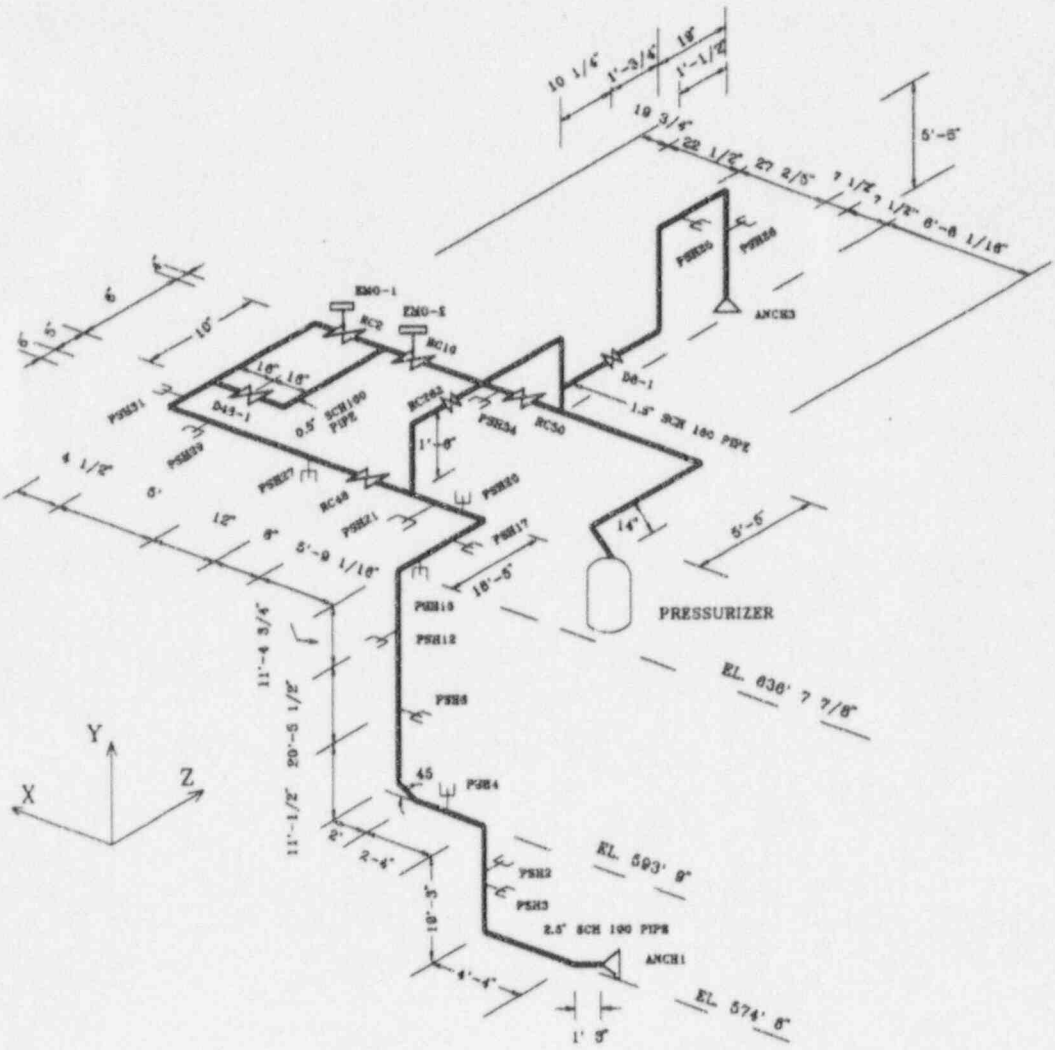


Figure 1: Piping Configuration, Presurizer Spray Line (Not to Scale)

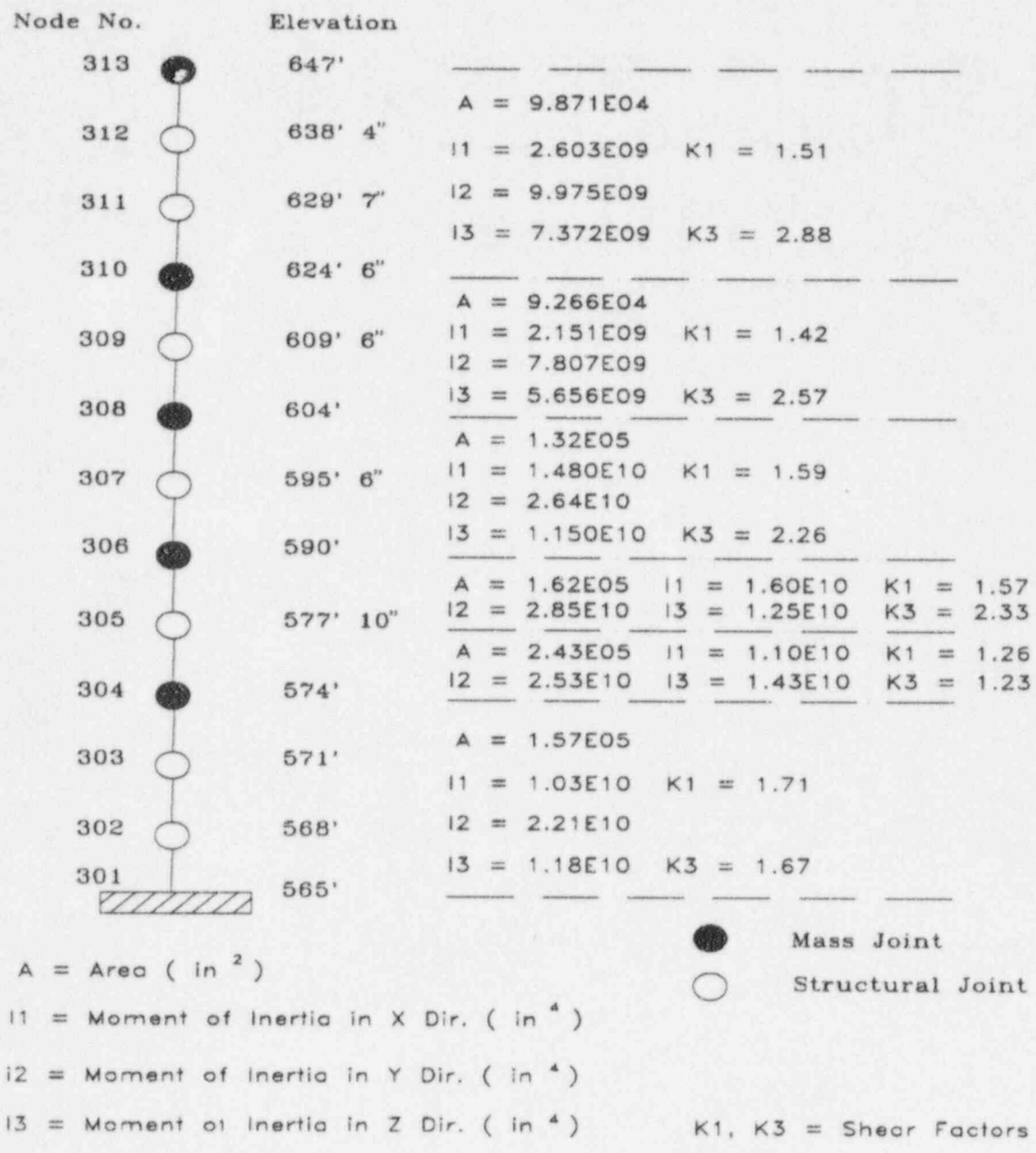
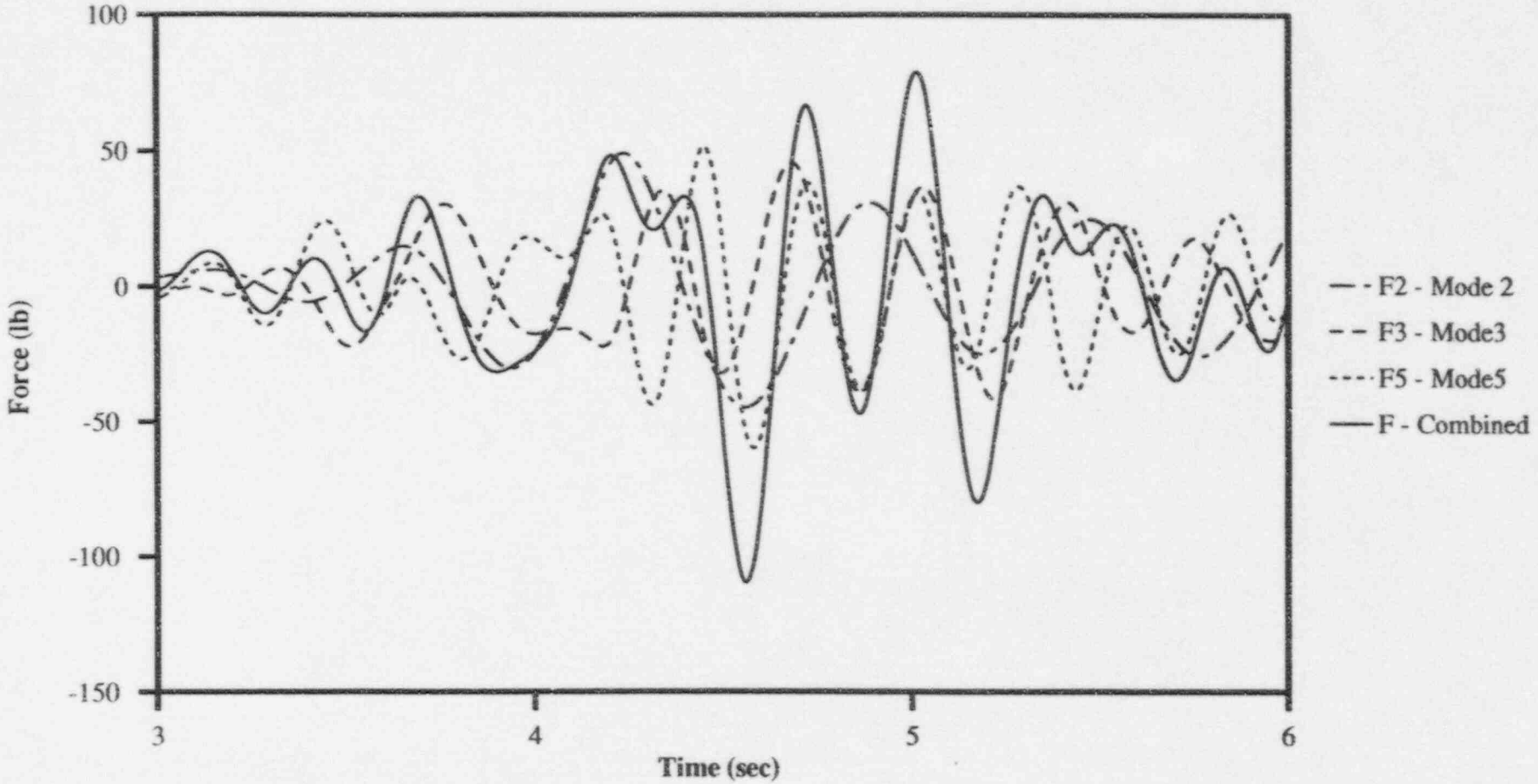


Figure 2: Building Model, Pressurizer Spray Line

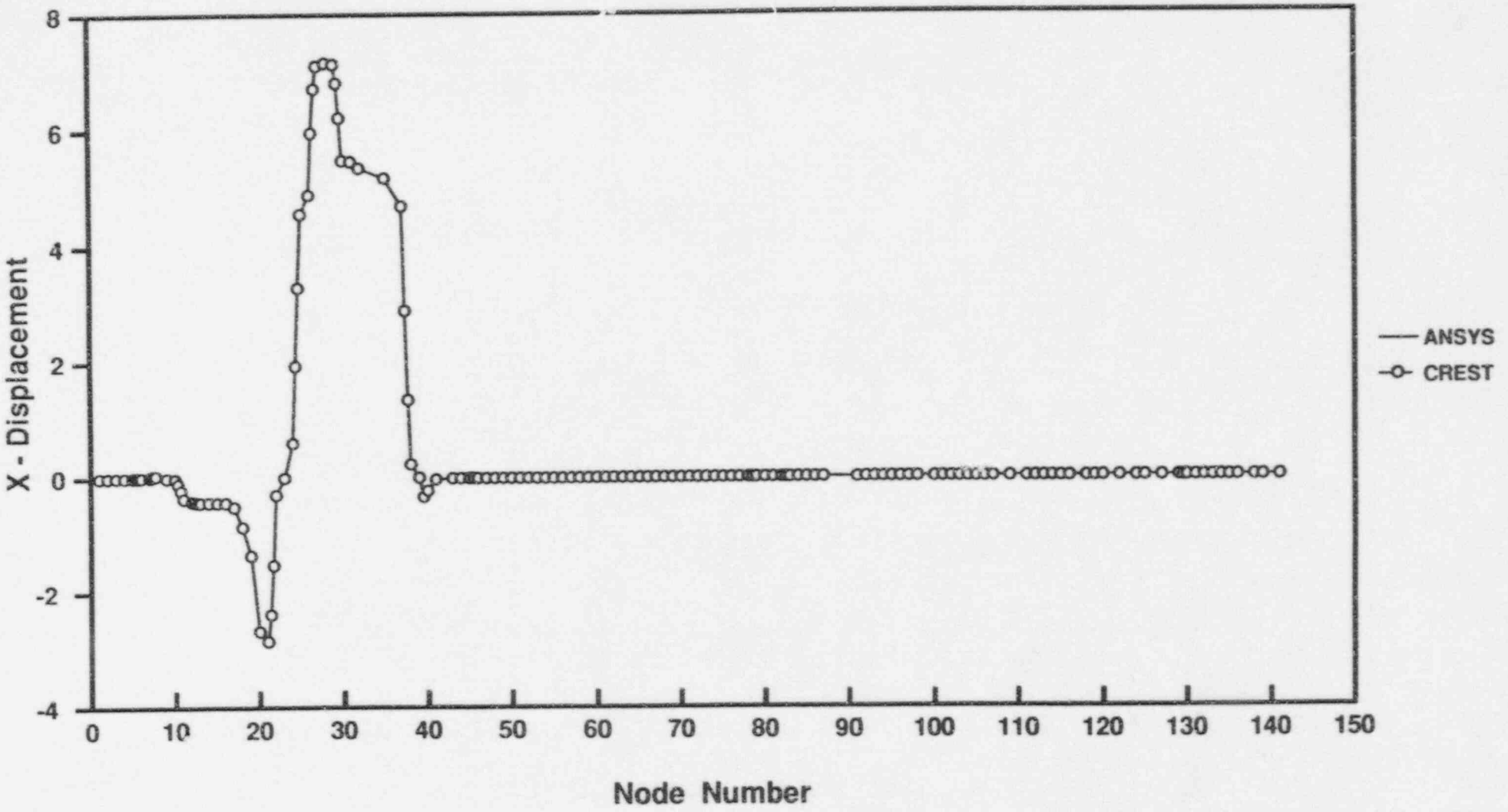
Fig3: Plot of Force Time Histories



Appendix

Comparison of Coupled Mode Shapes from ANSYS and CREST

Mode 1



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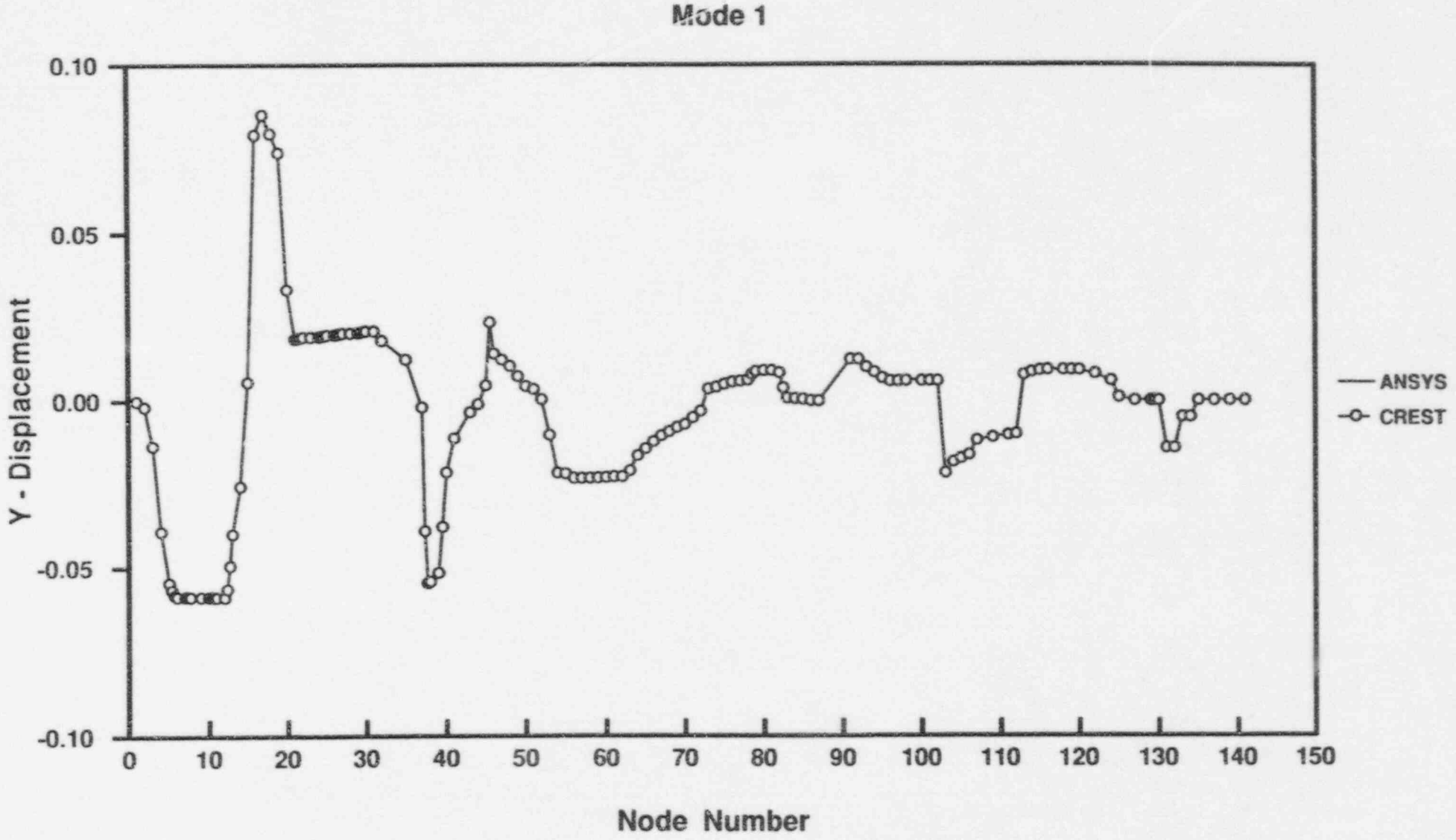

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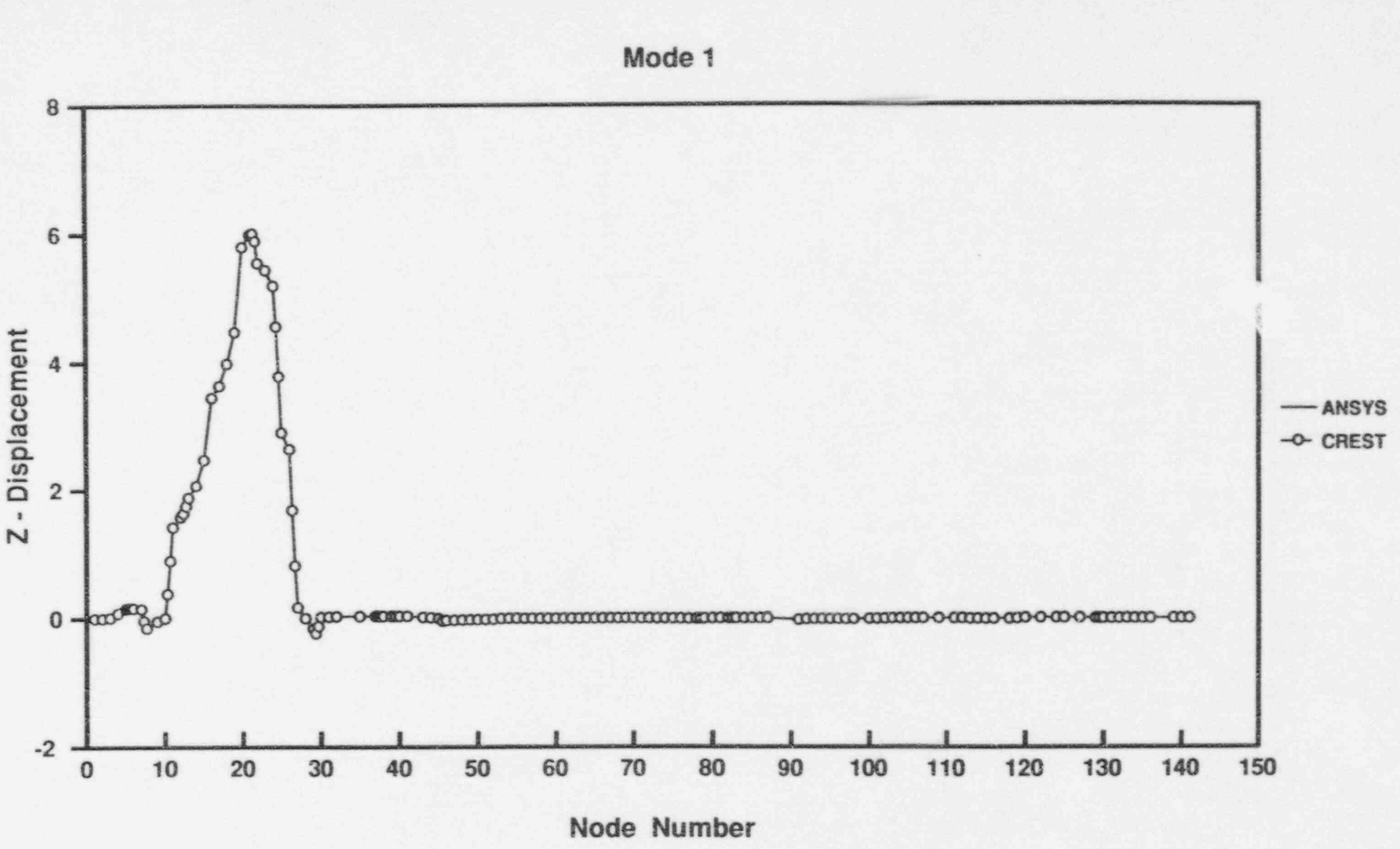

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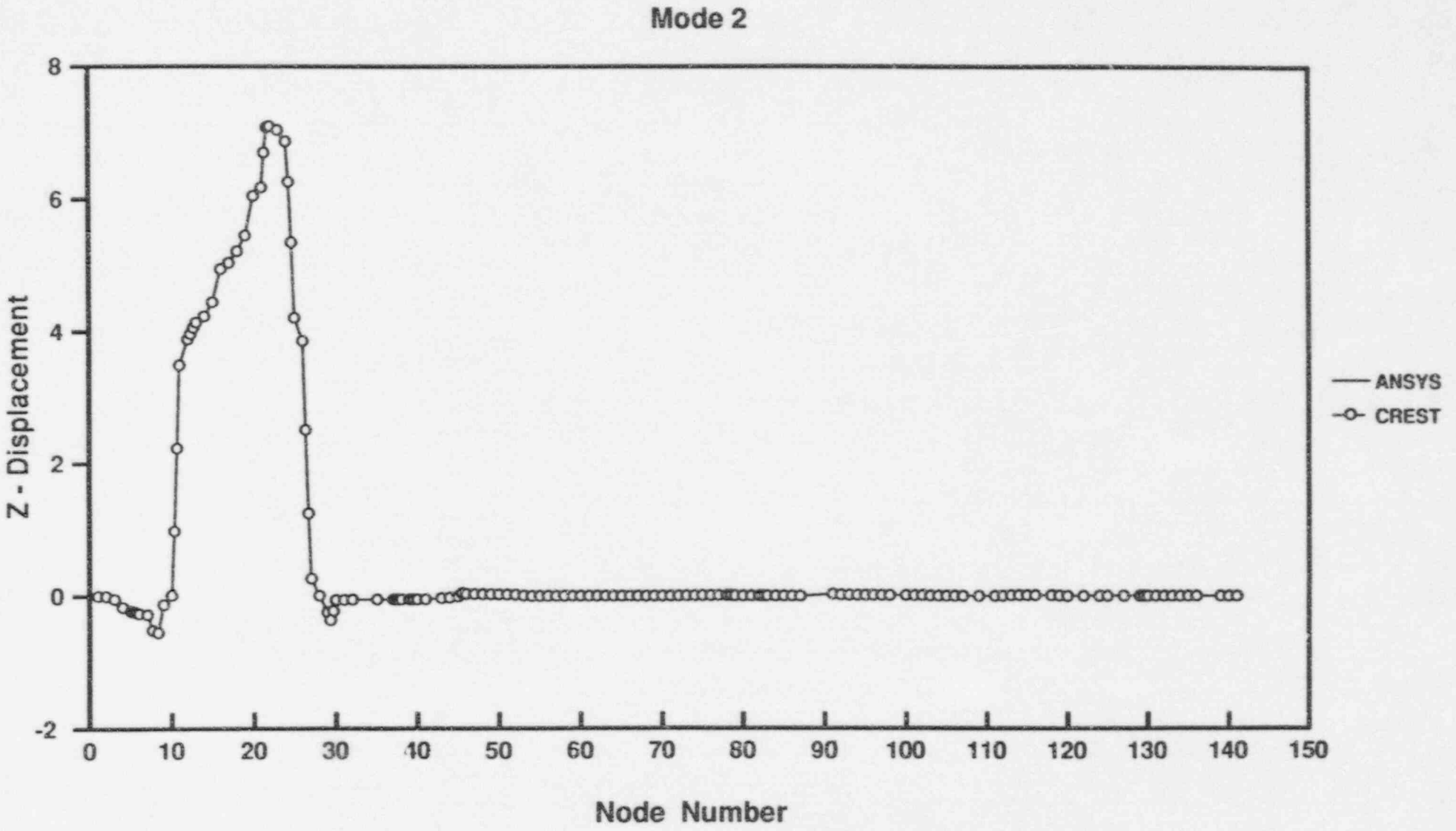

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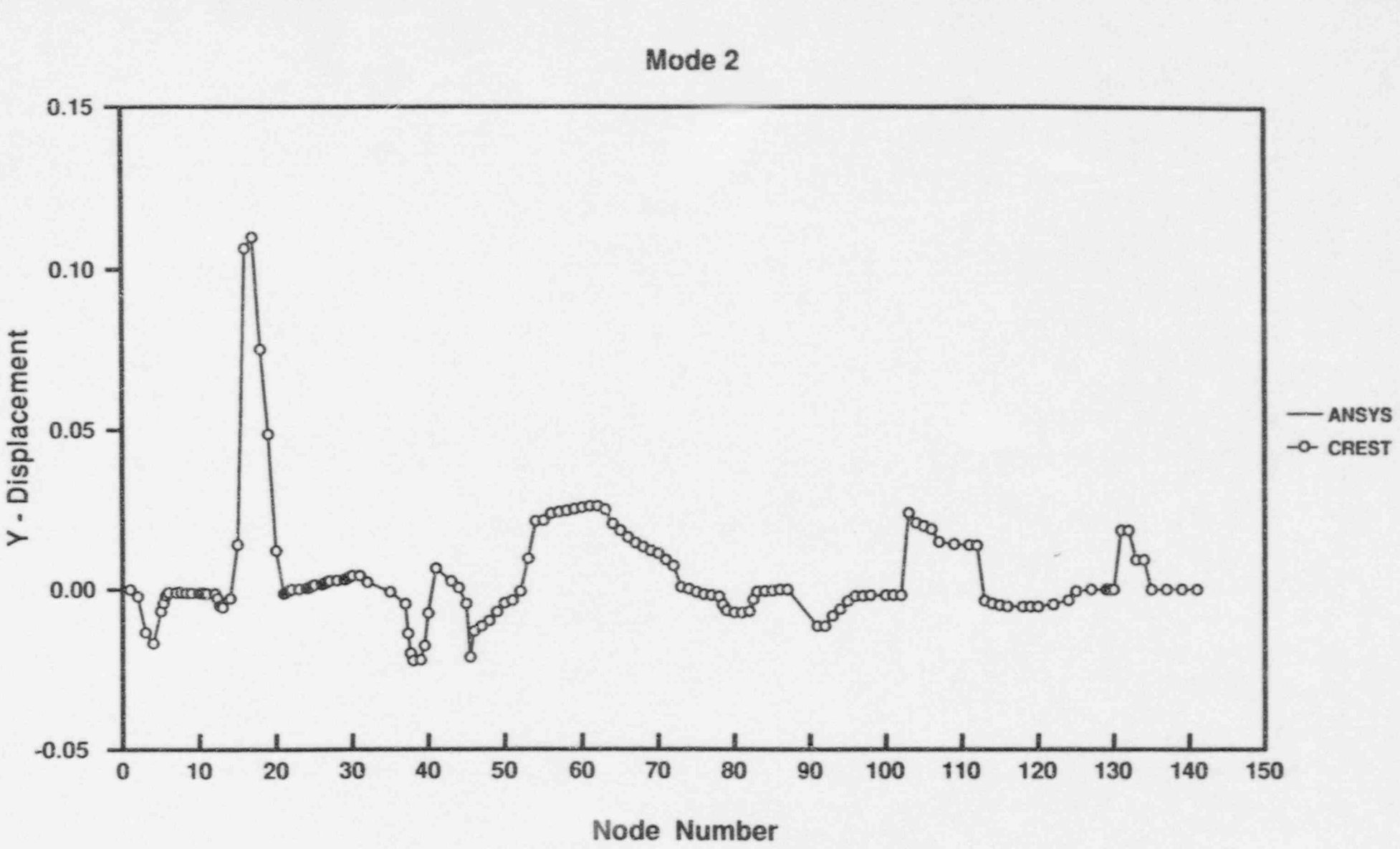

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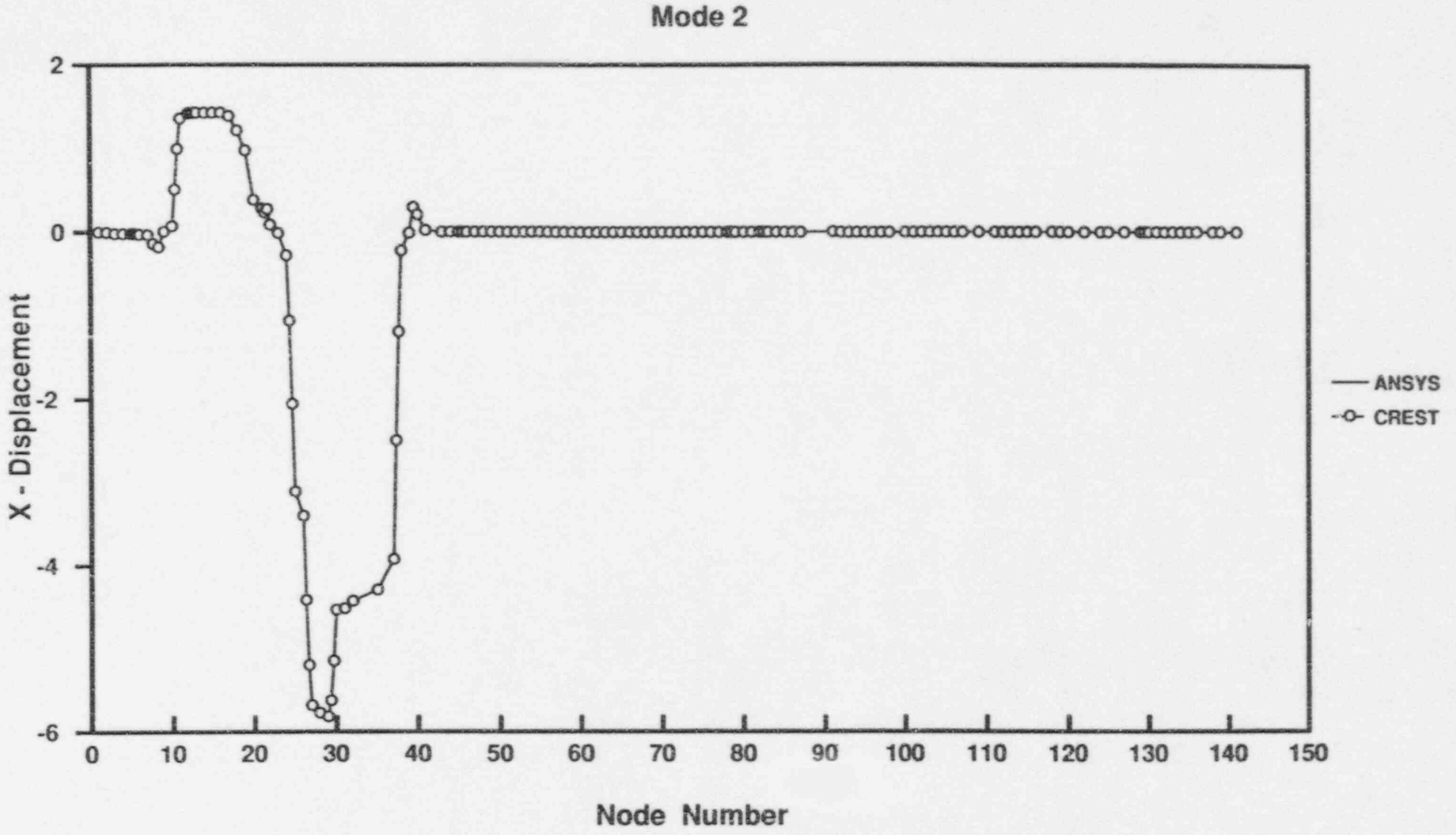
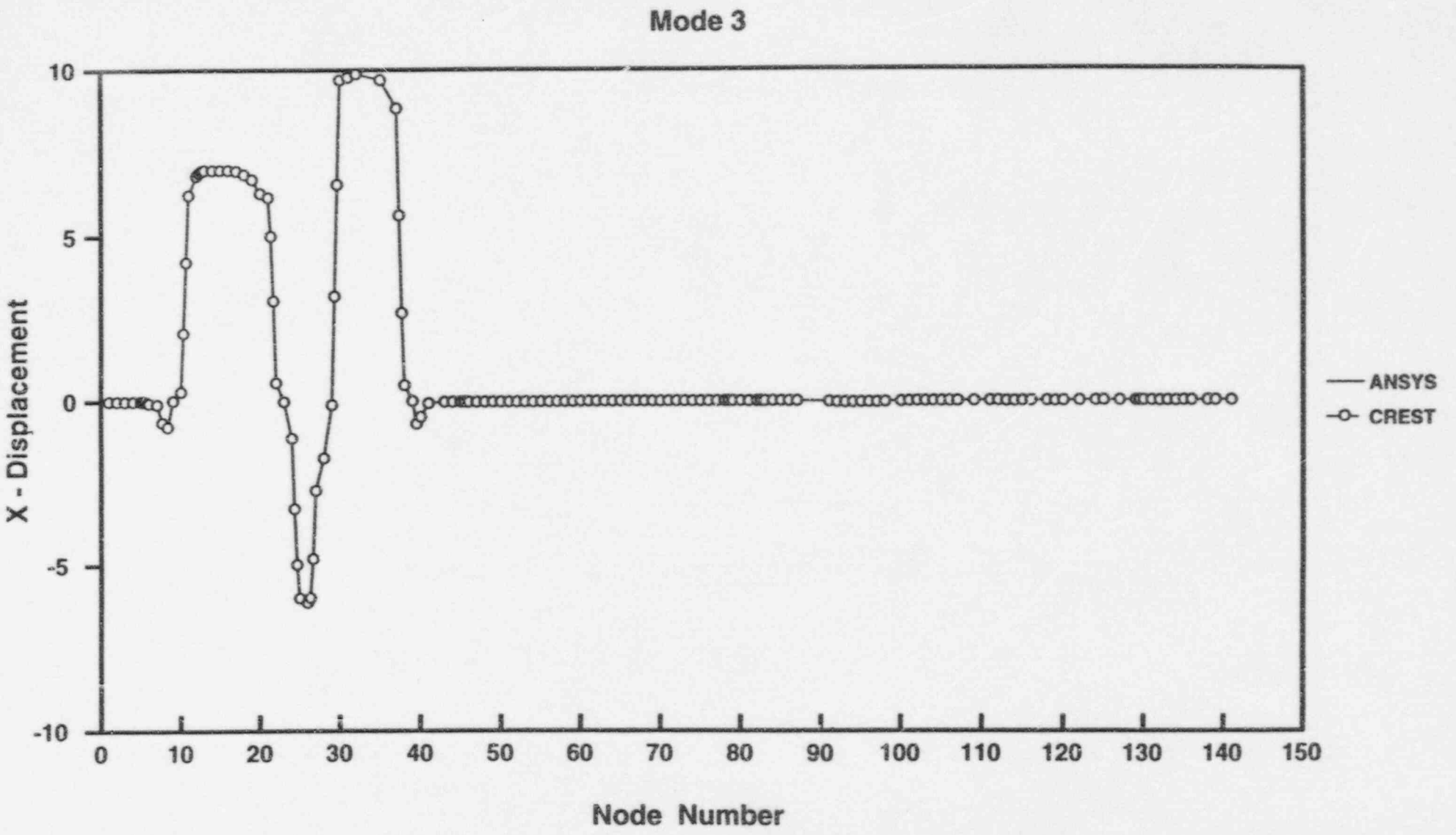


For relative locations of nodes please see the reference material



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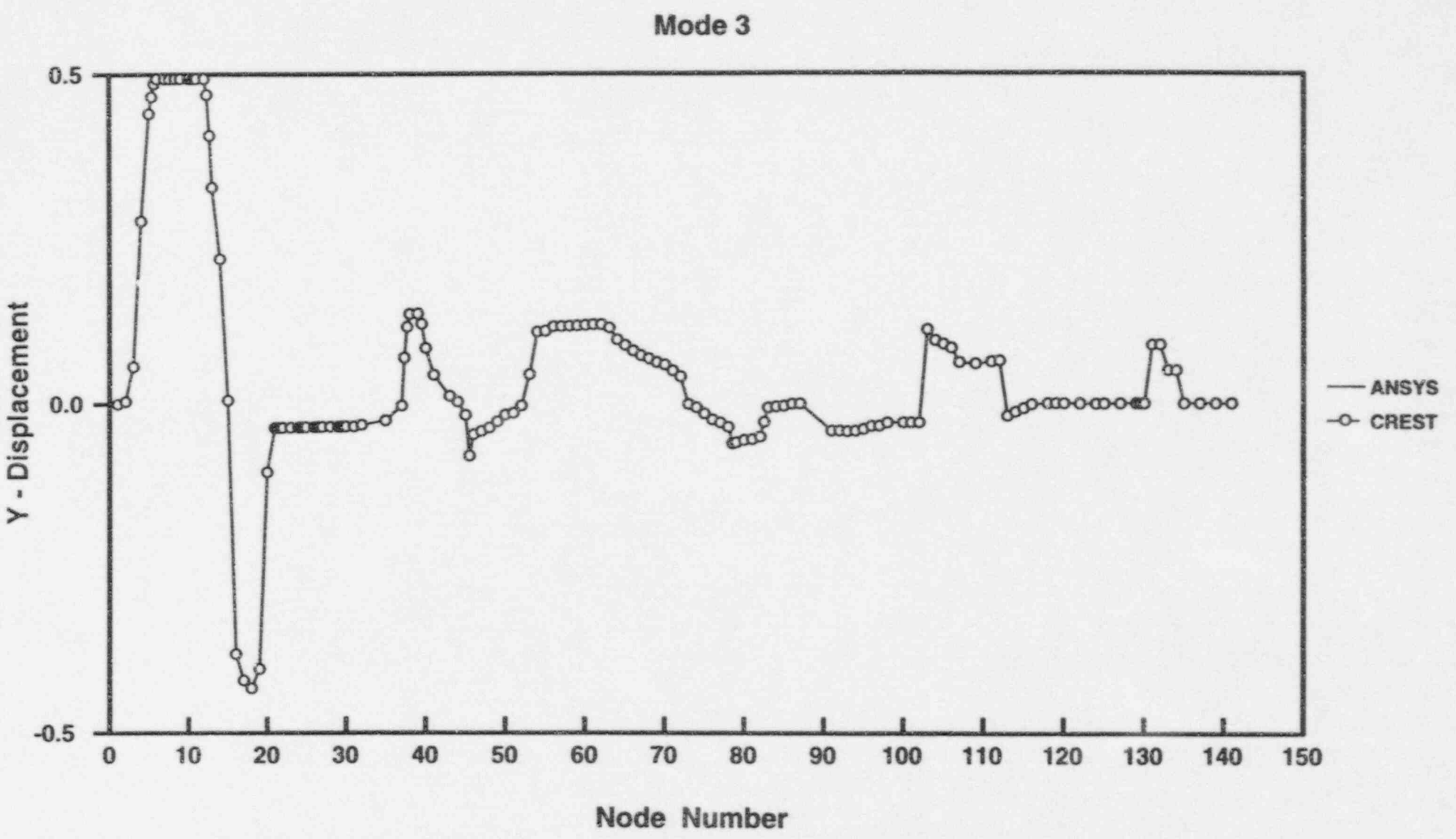

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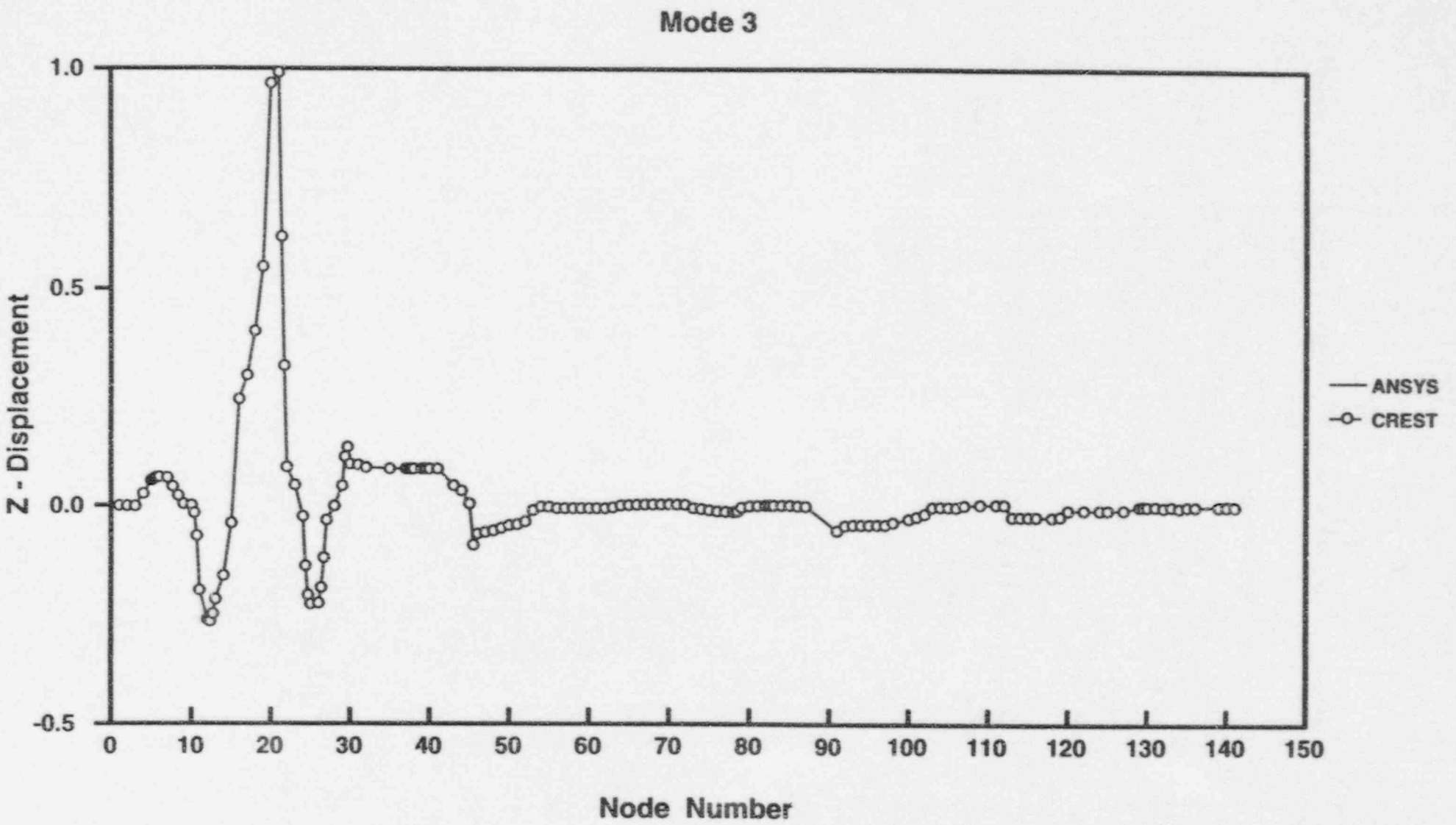

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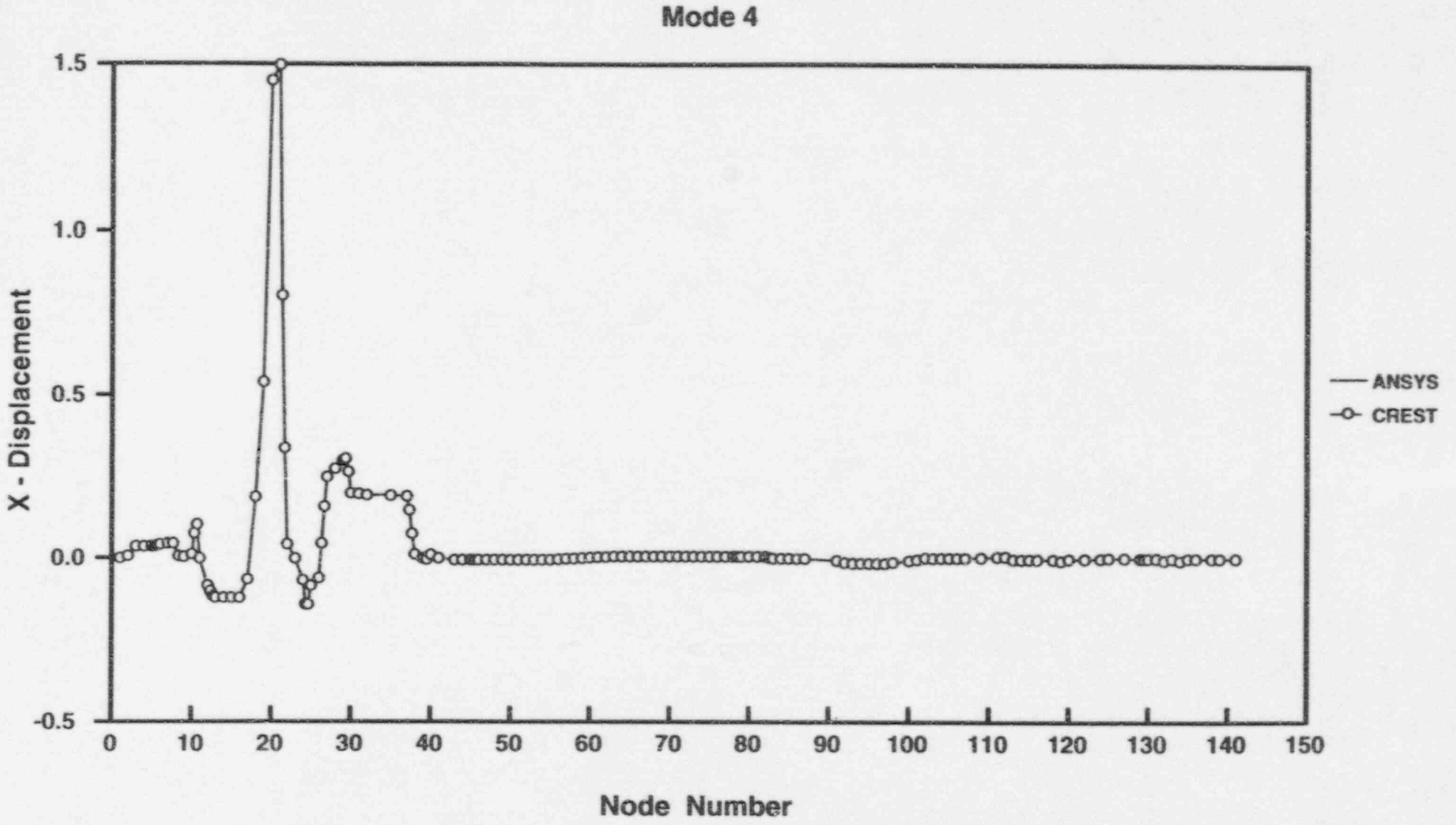

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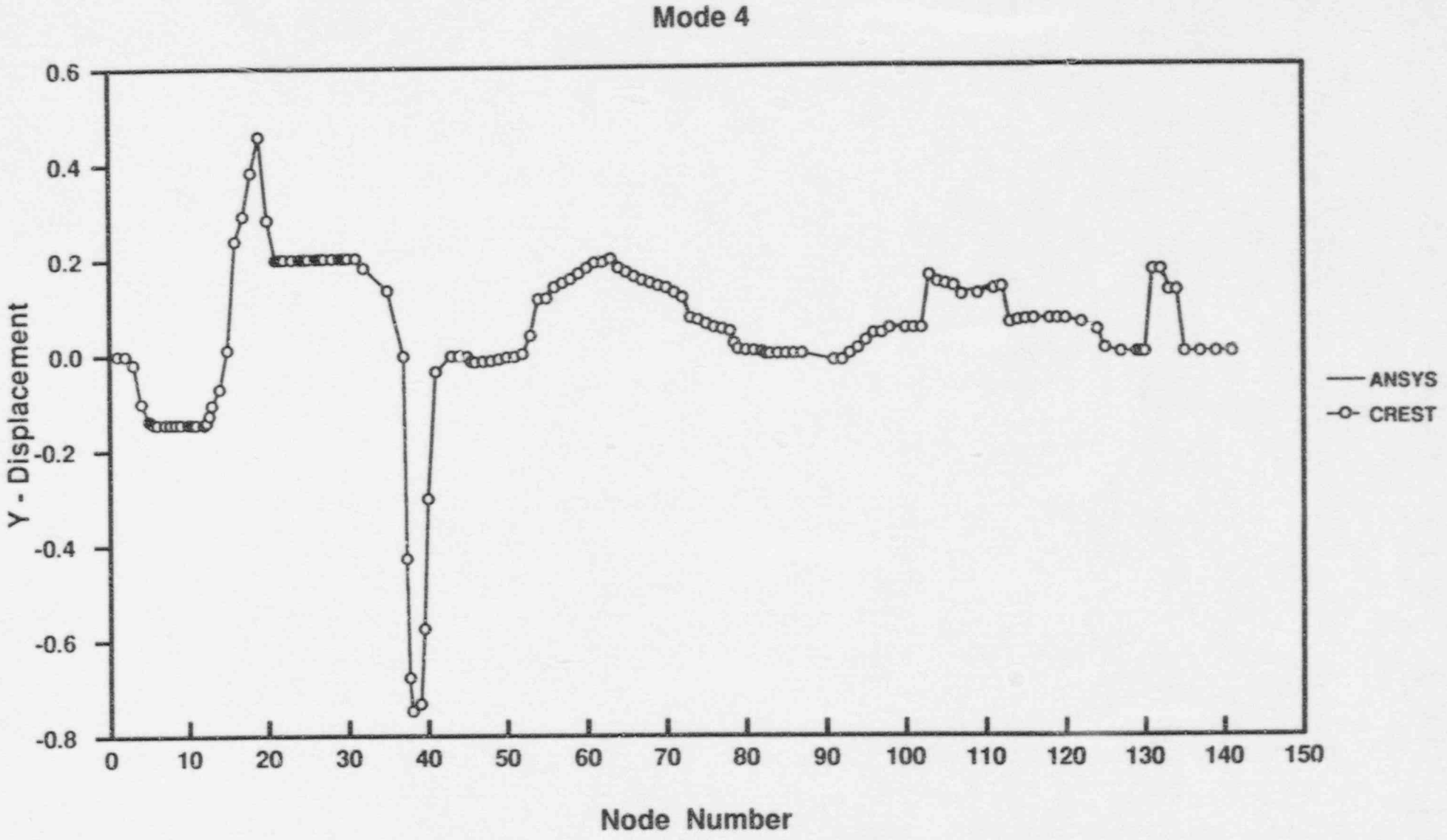

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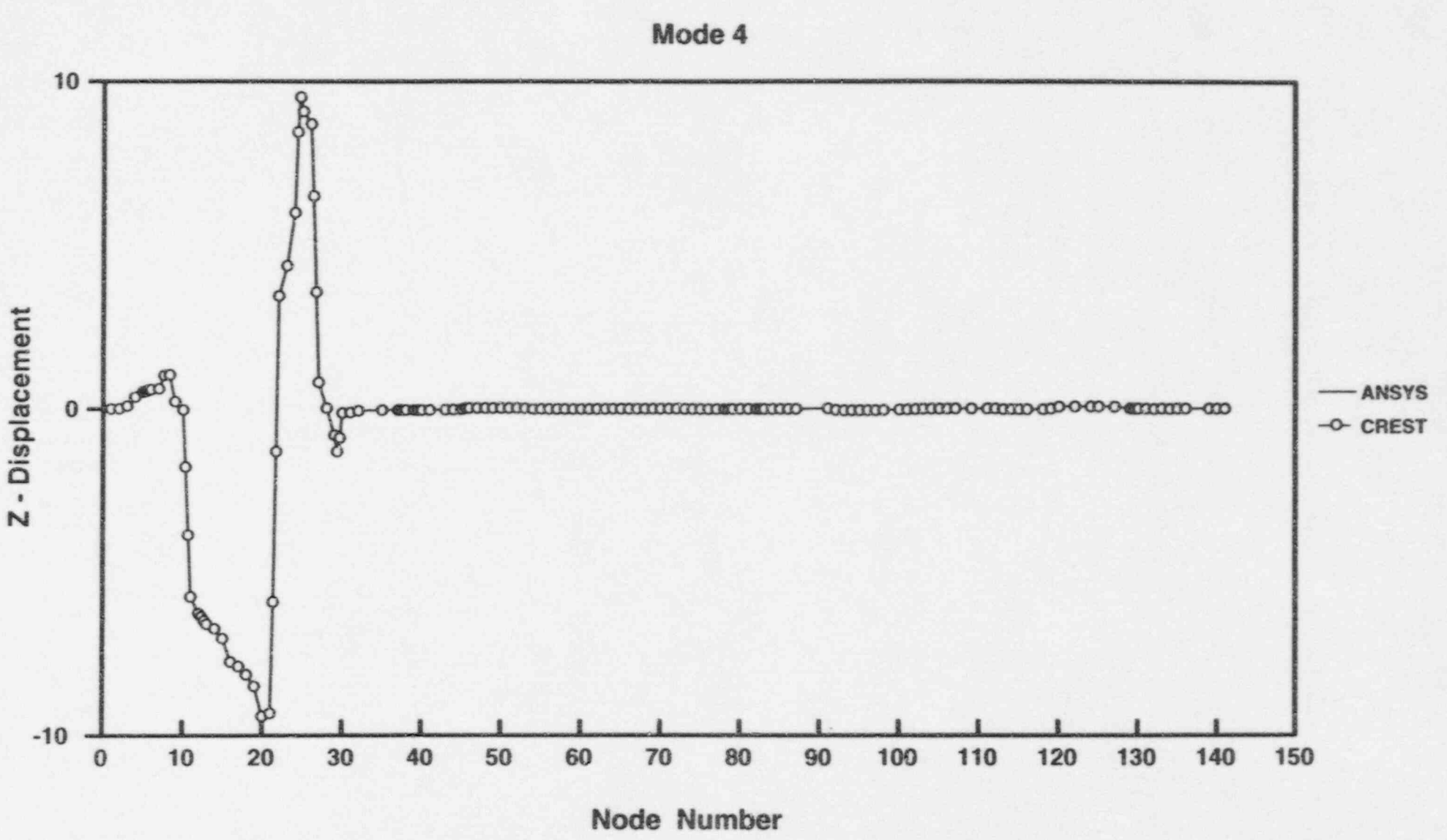

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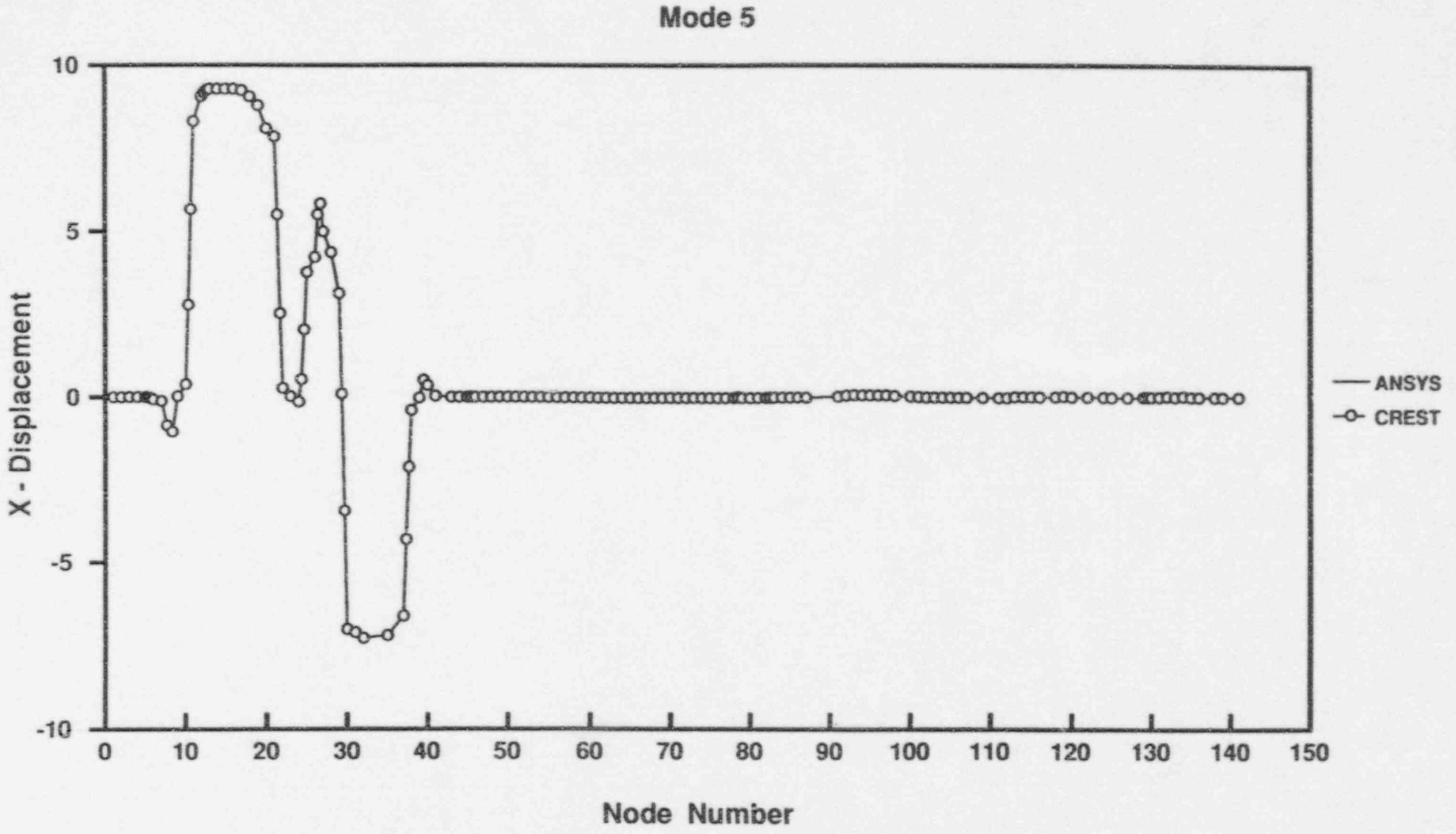

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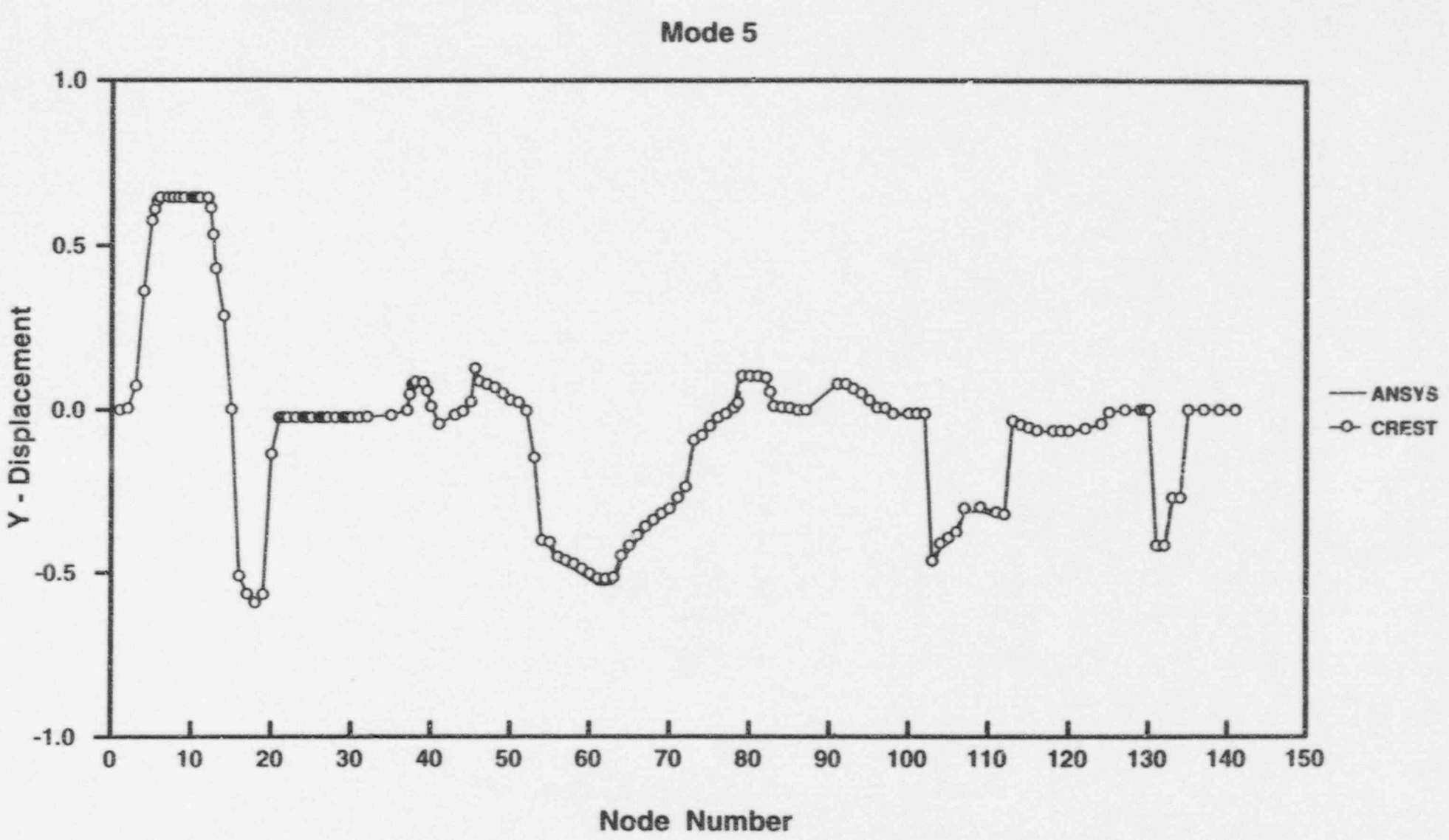

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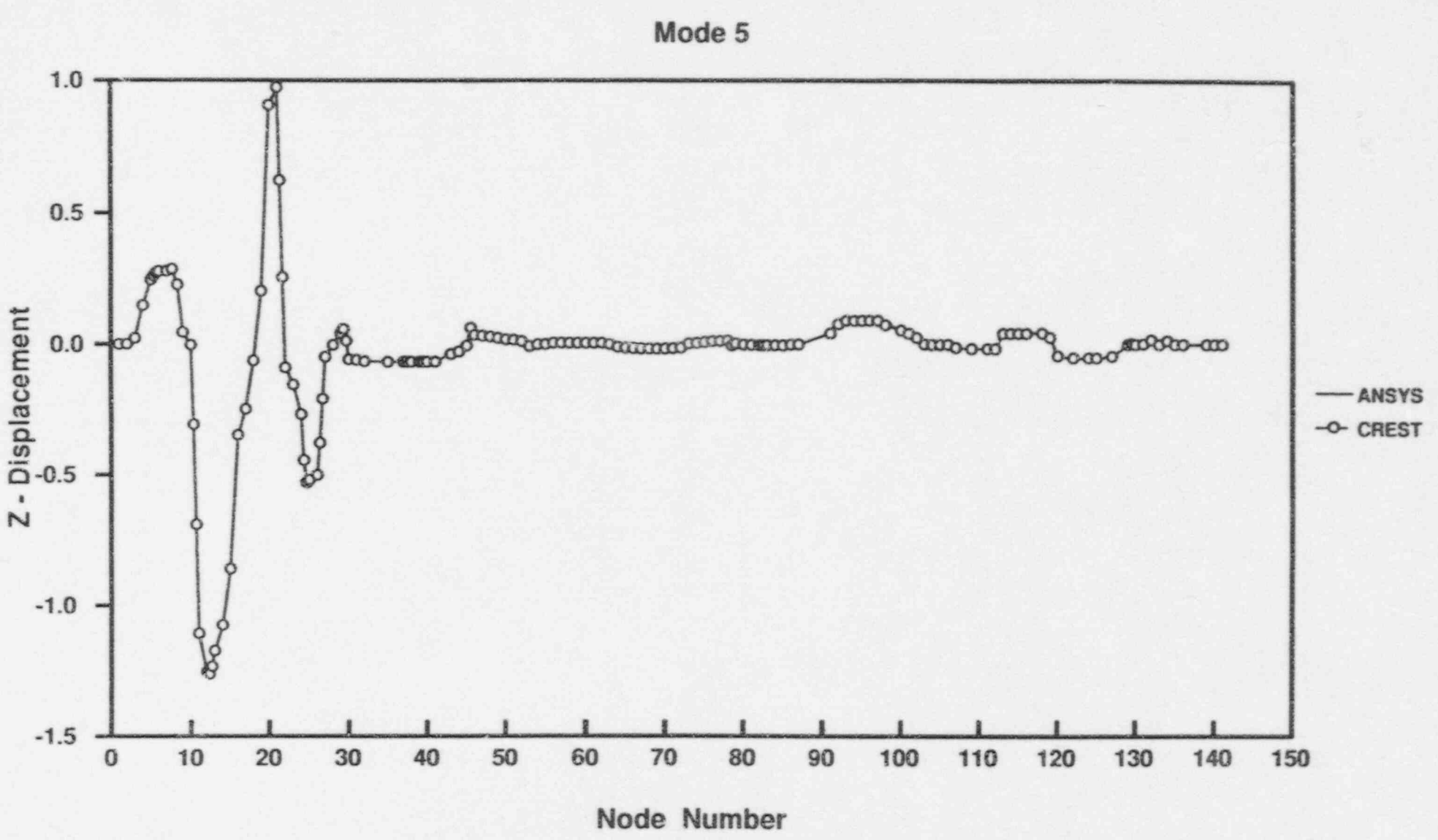

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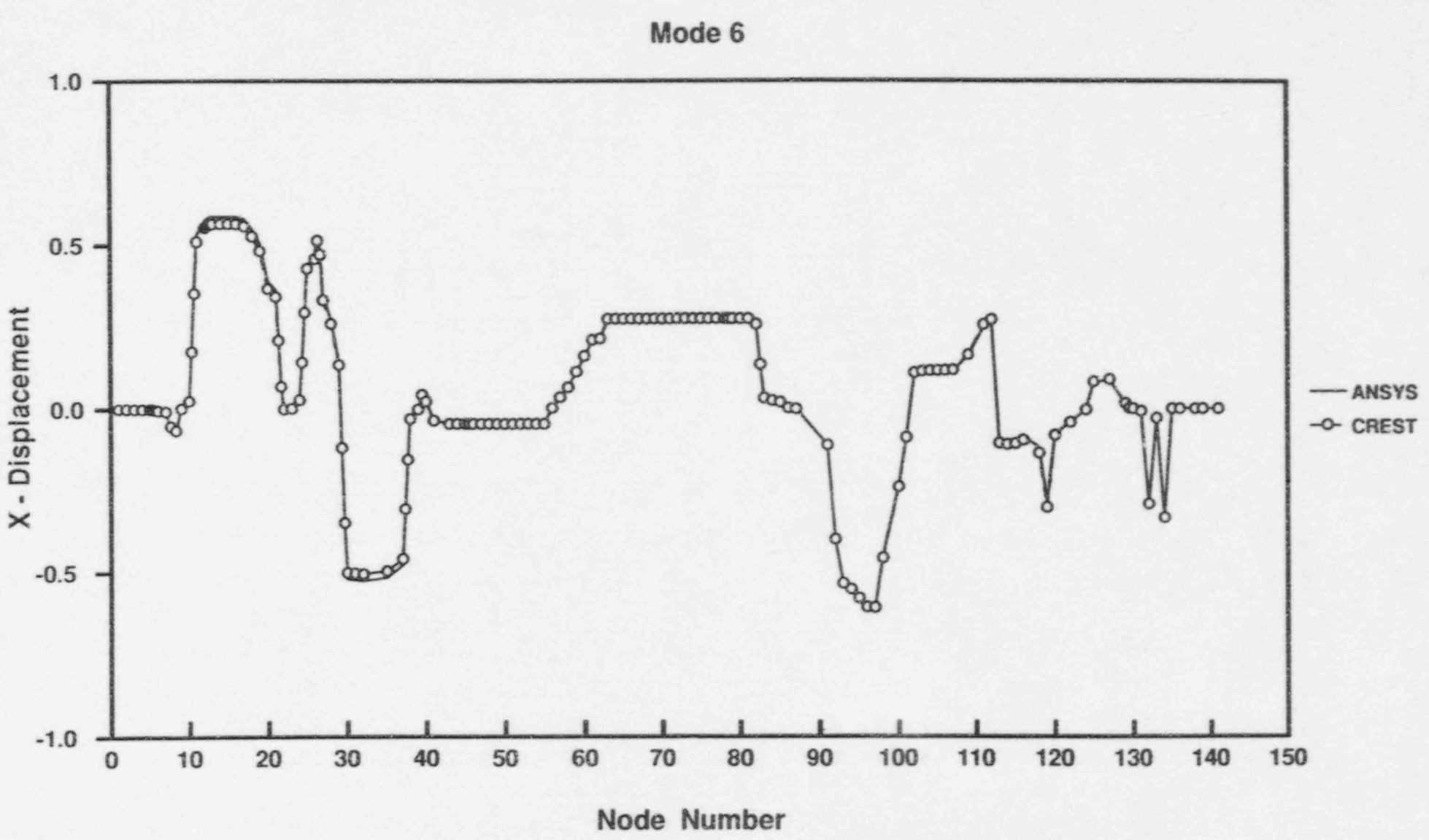

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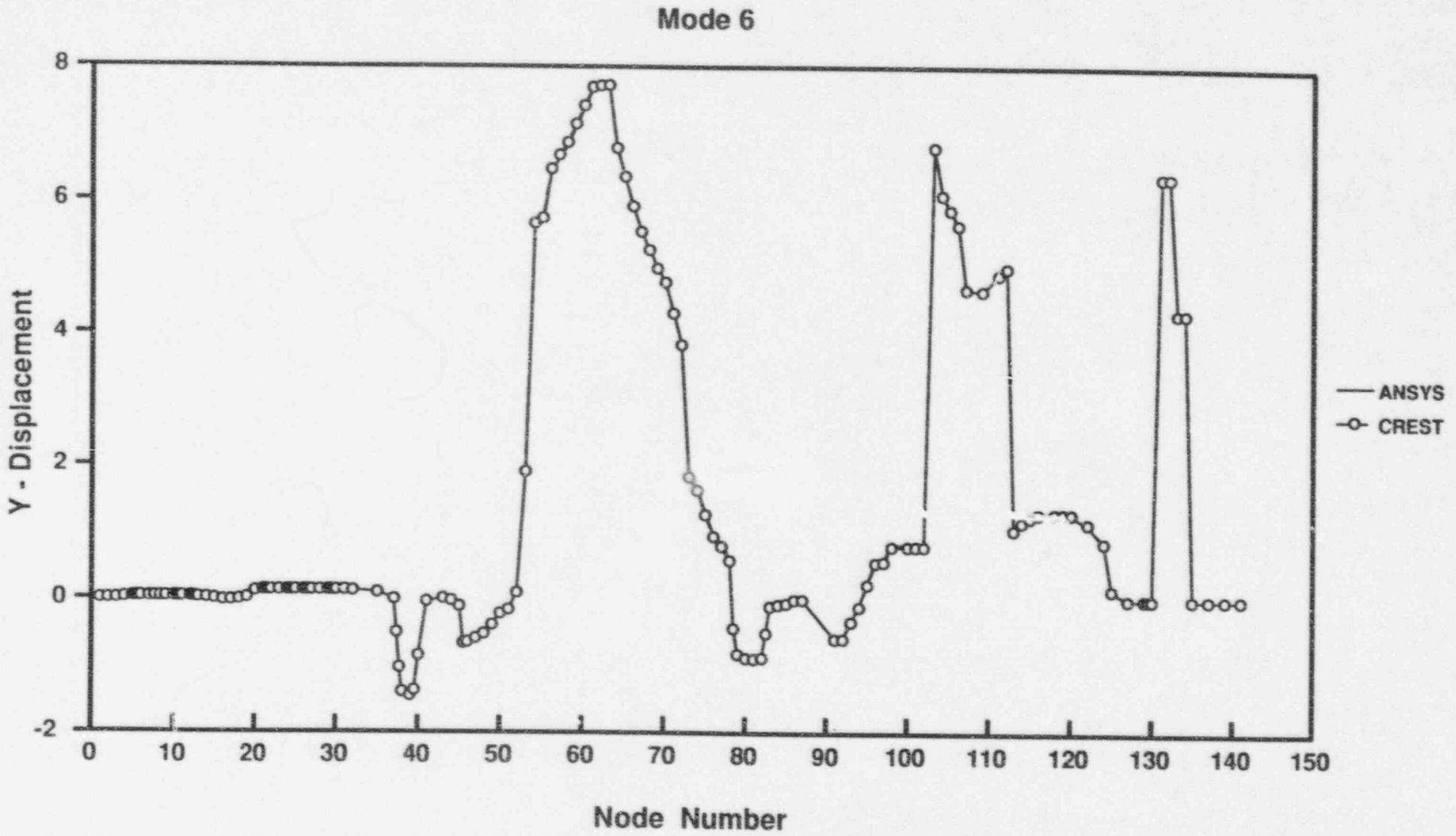

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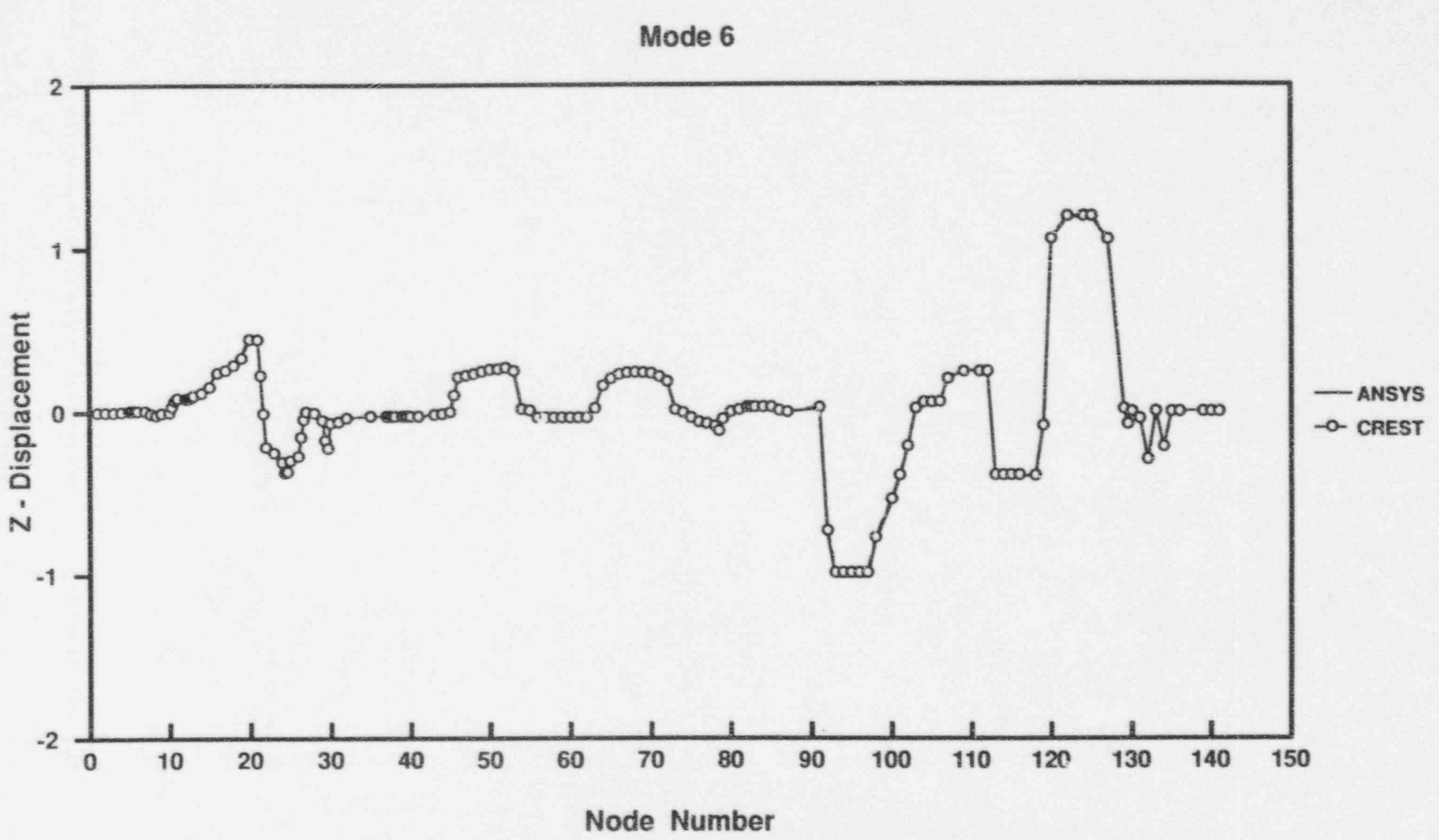

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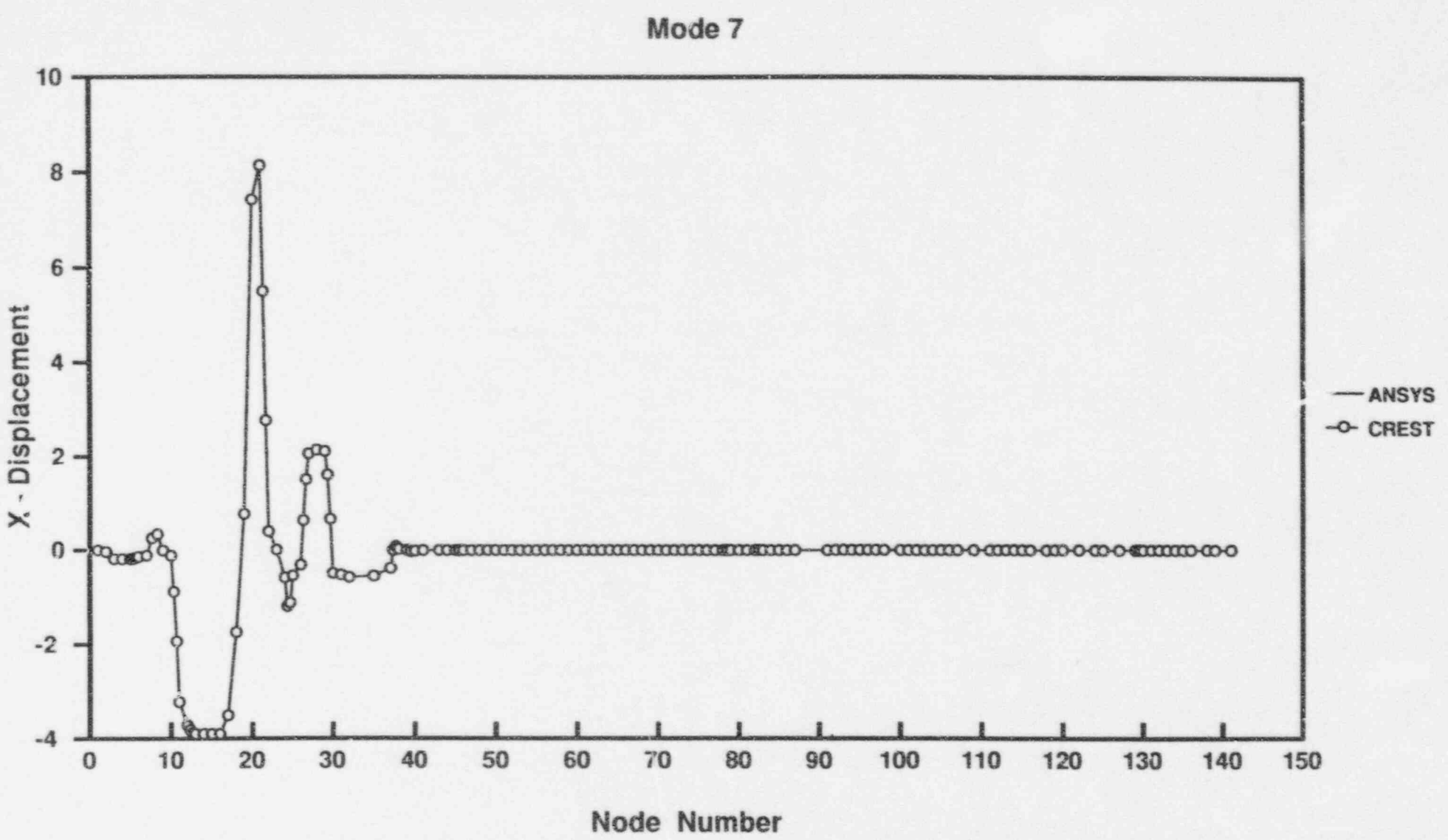

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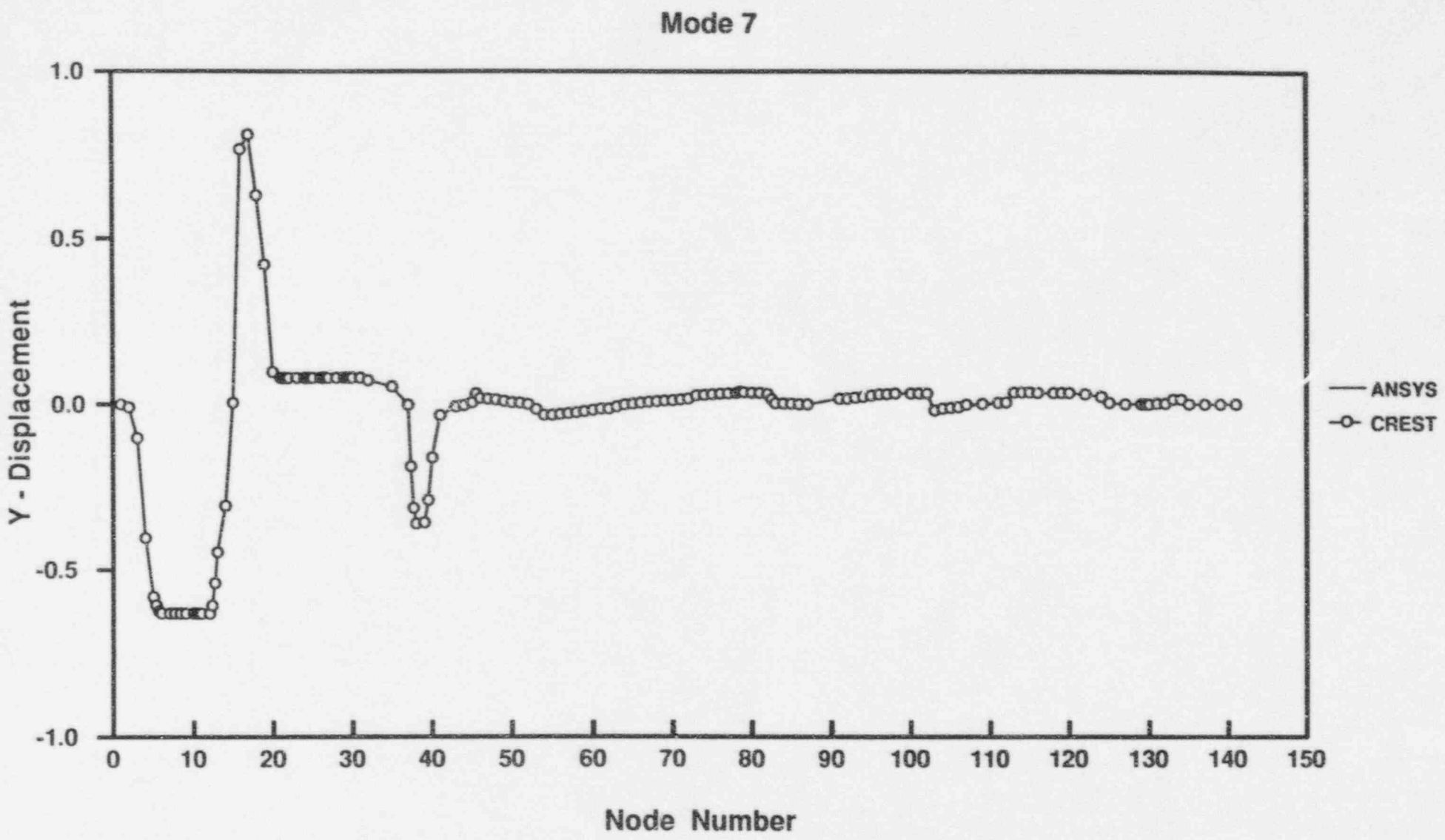

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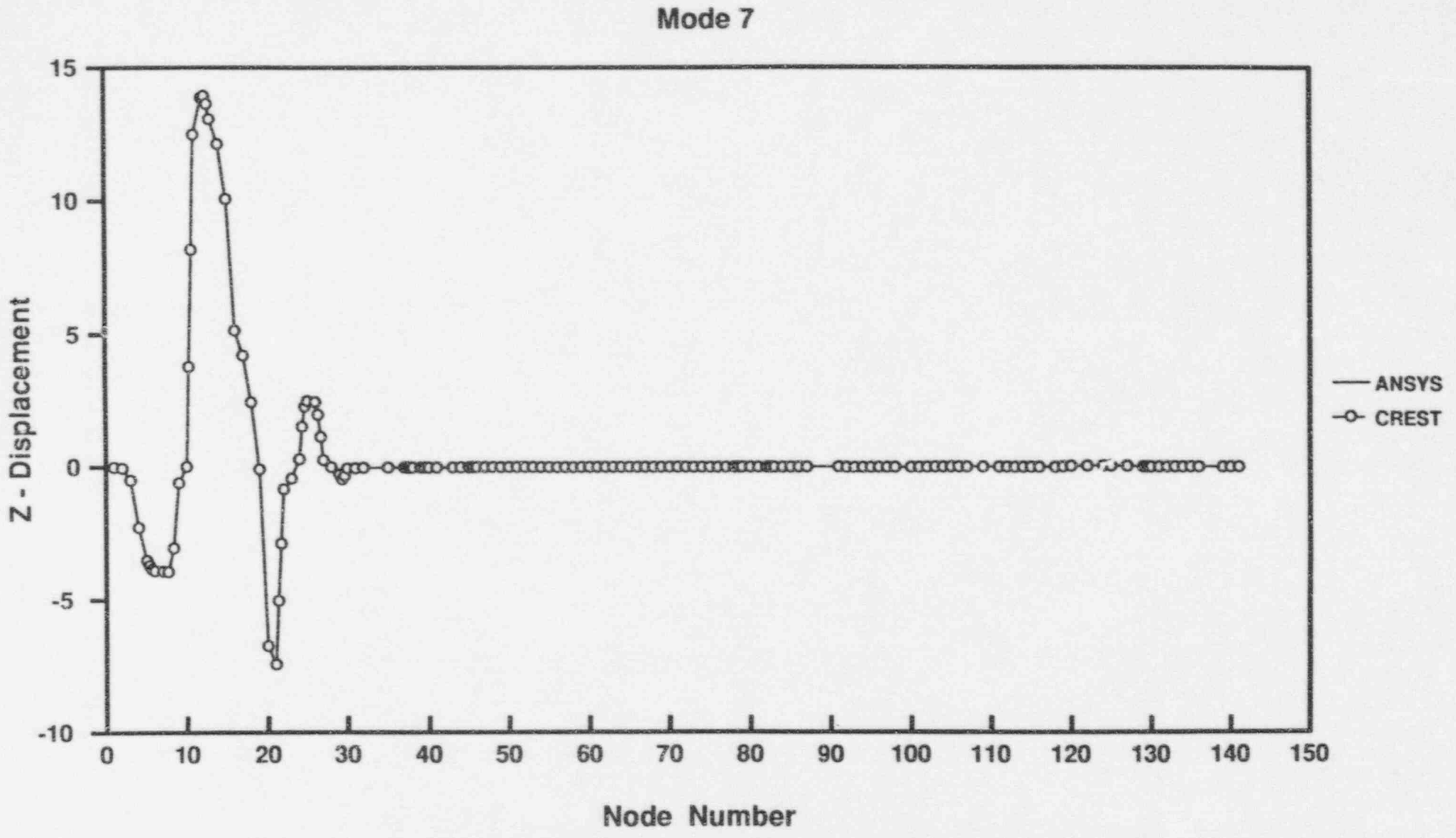

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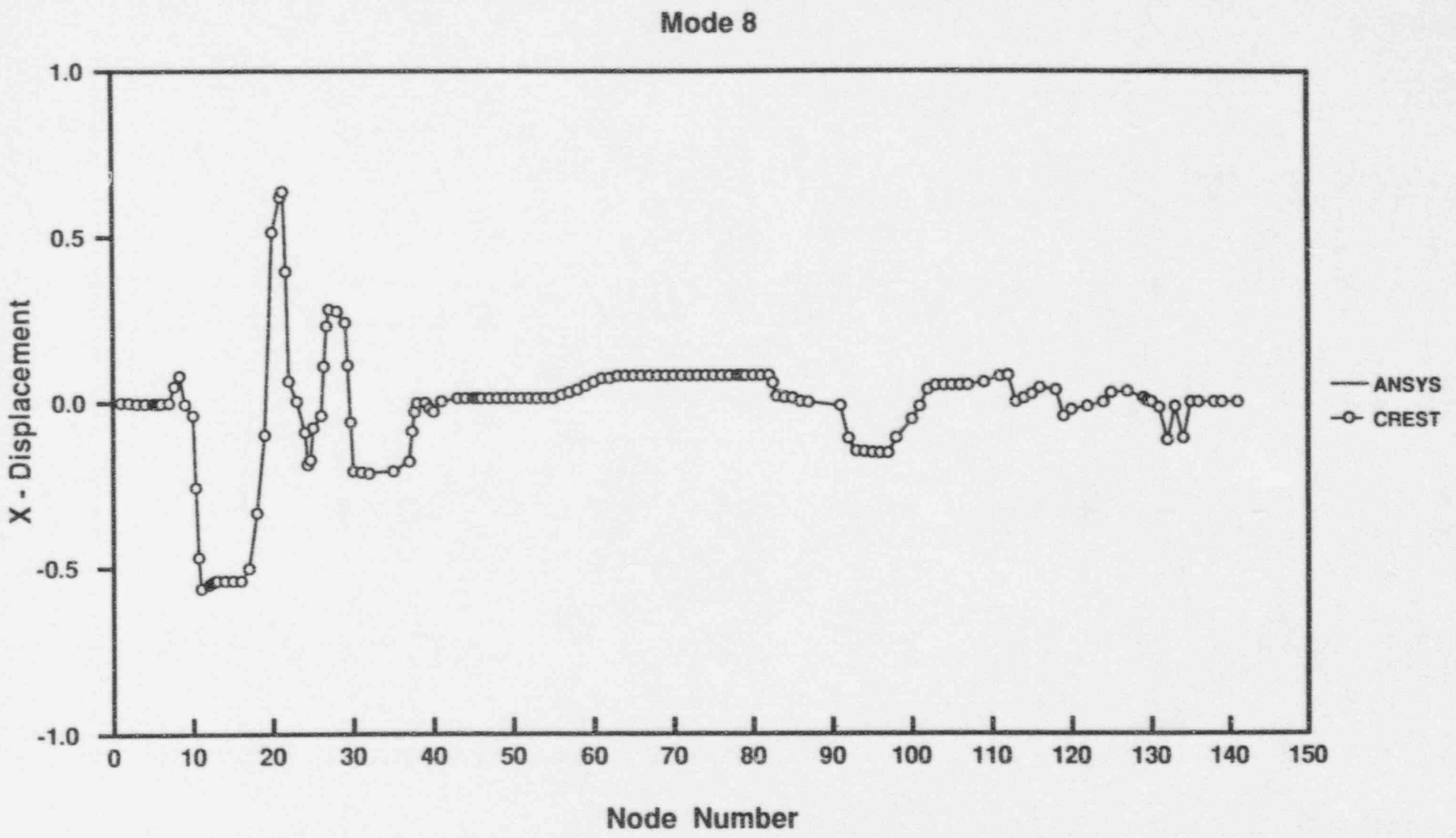

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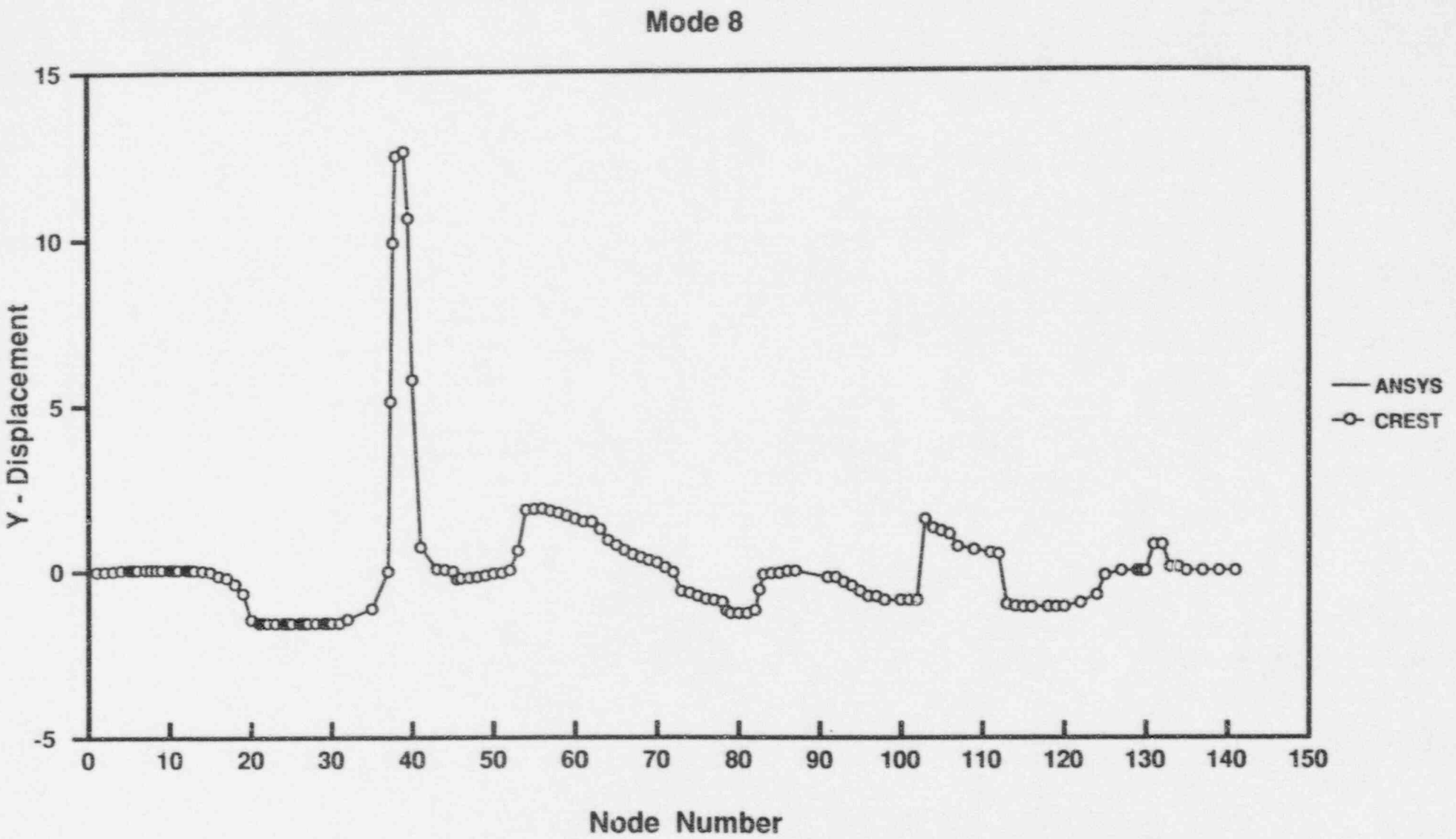

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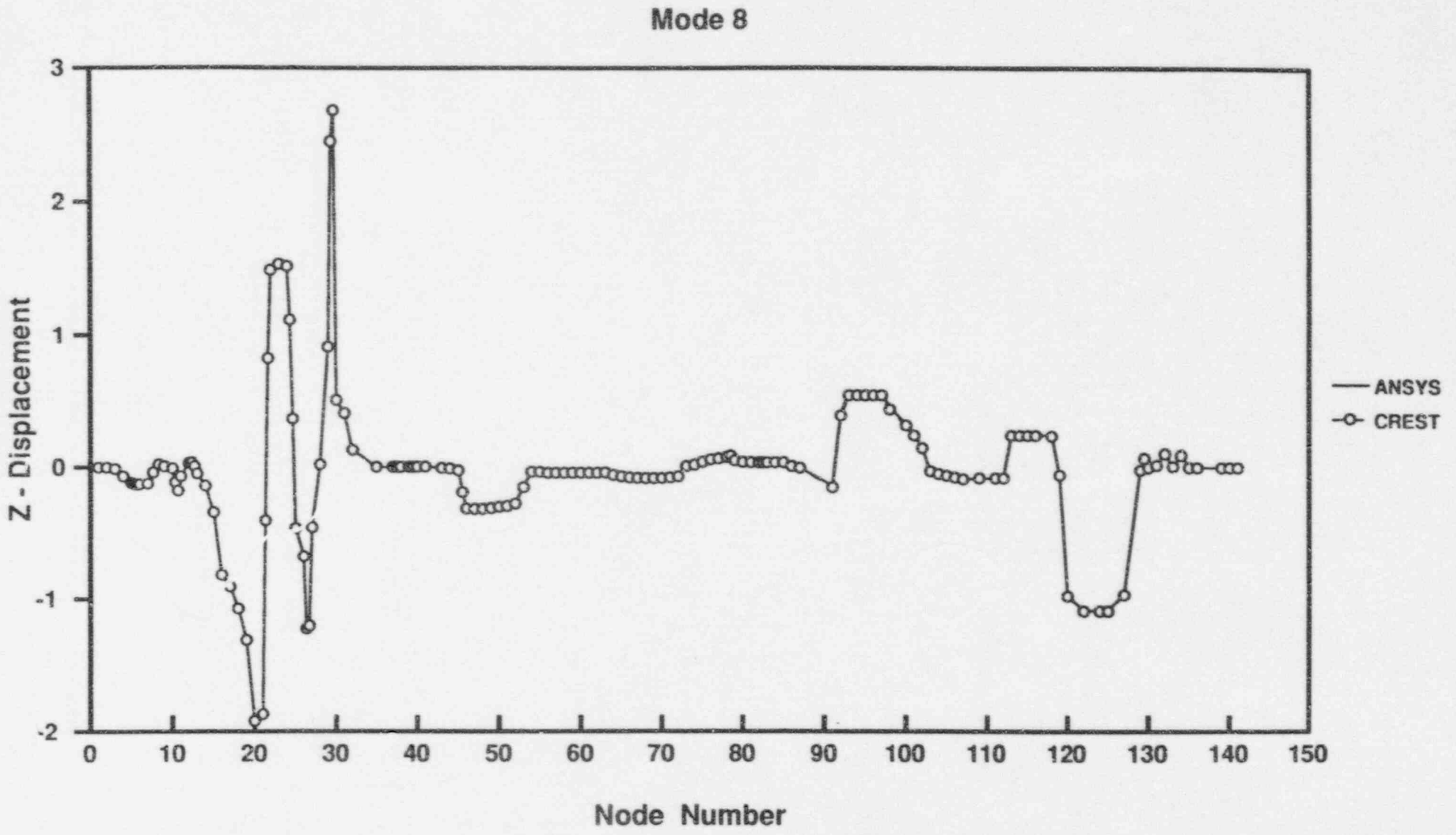

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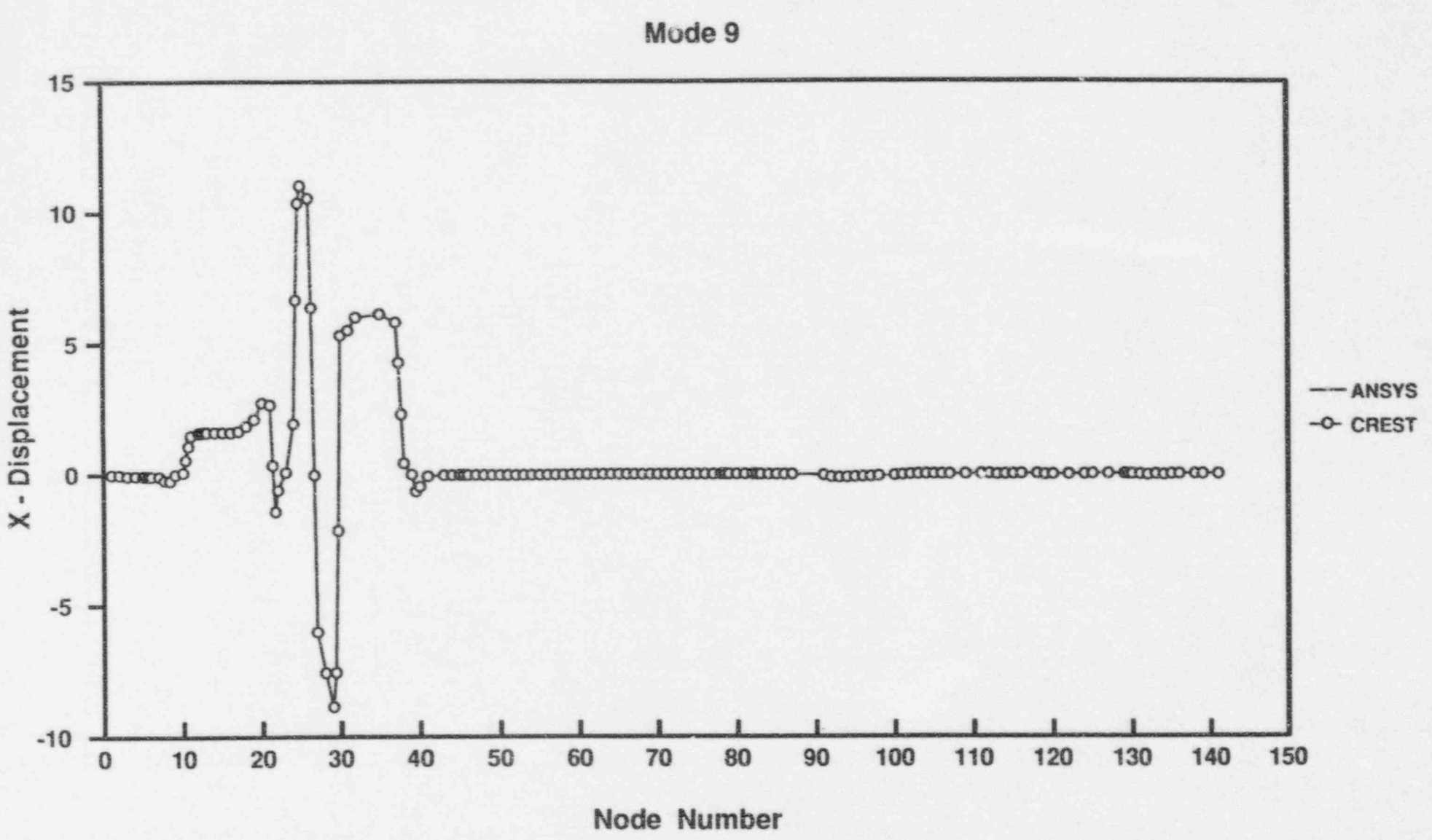

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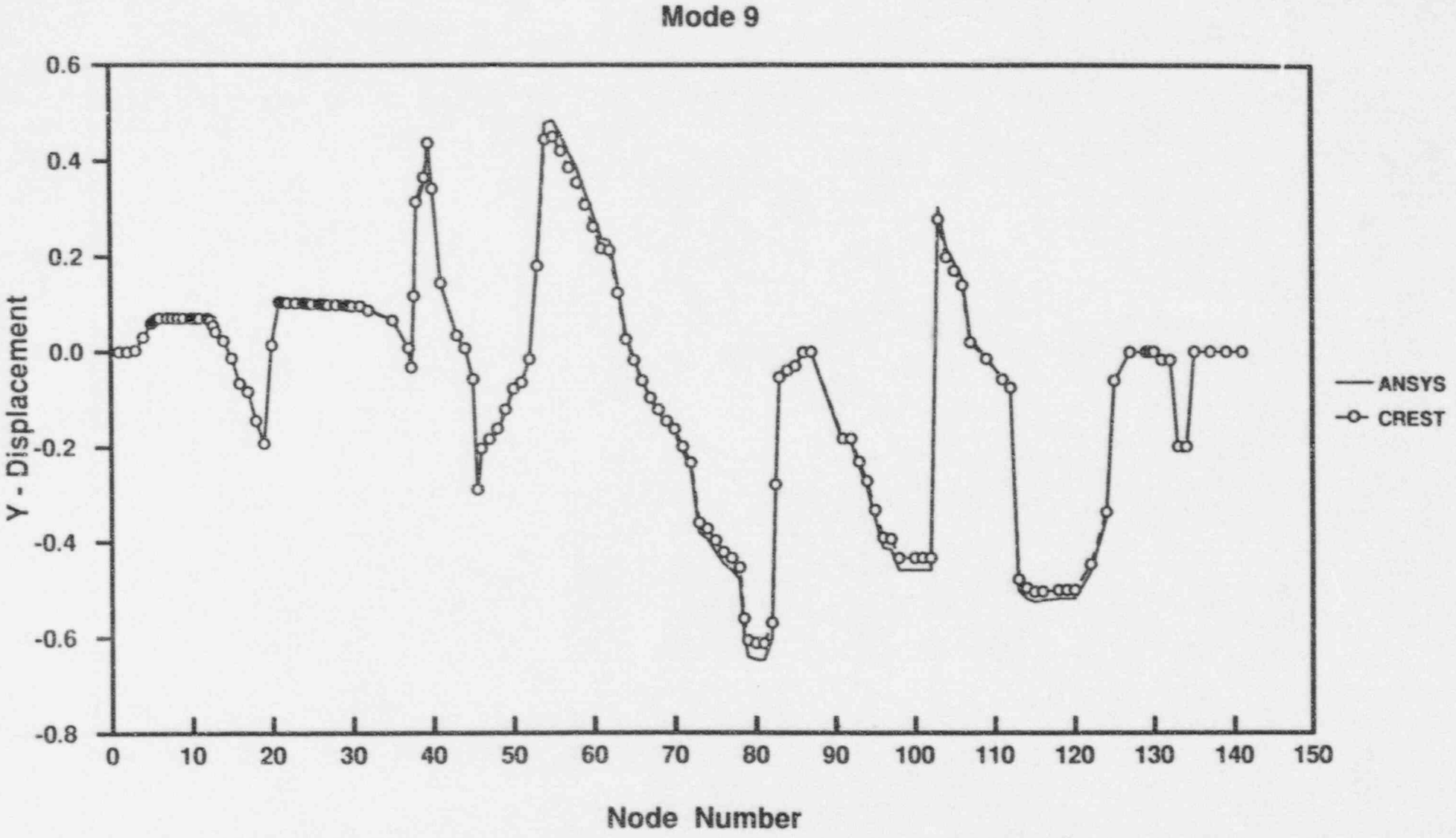

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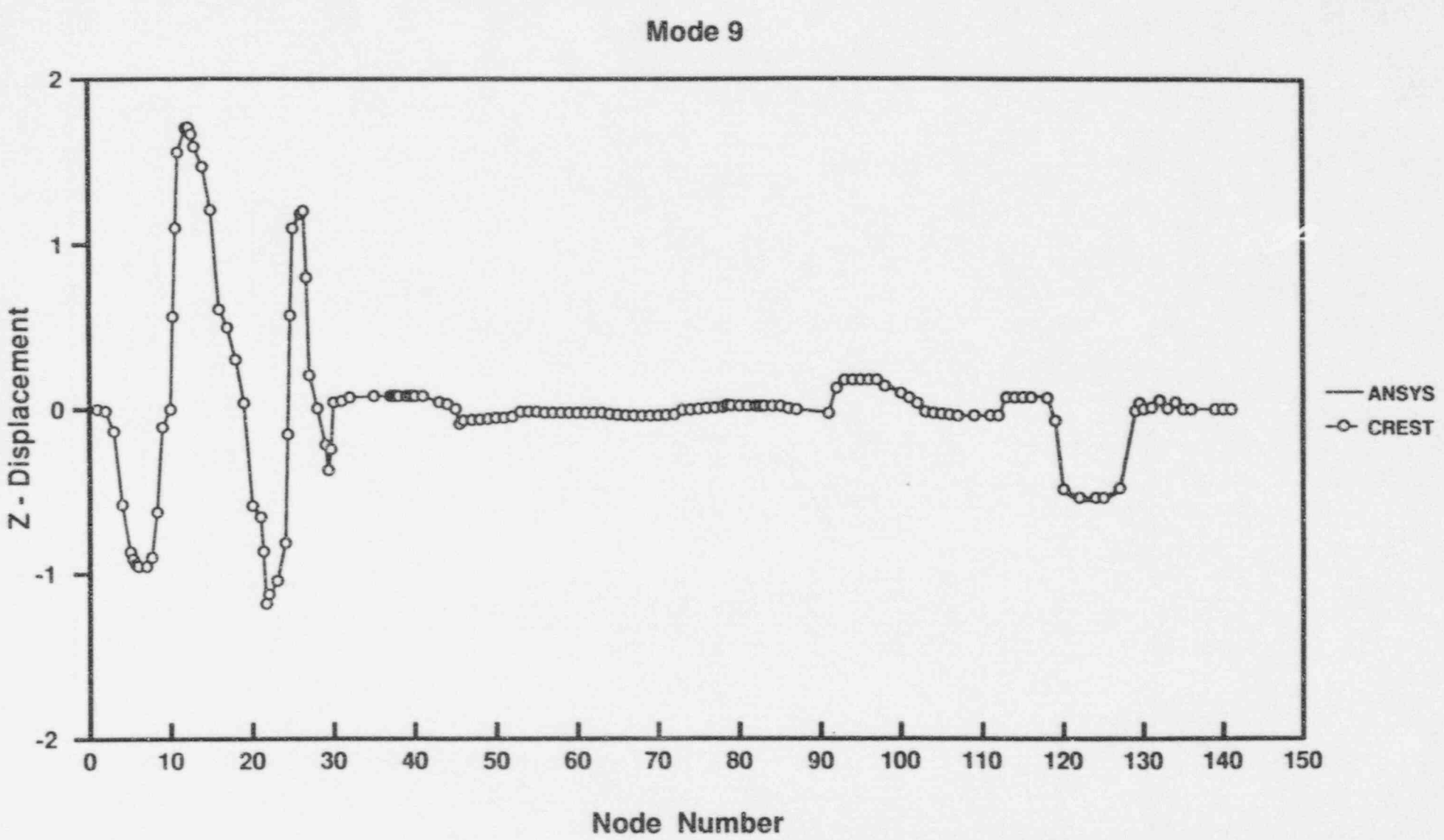

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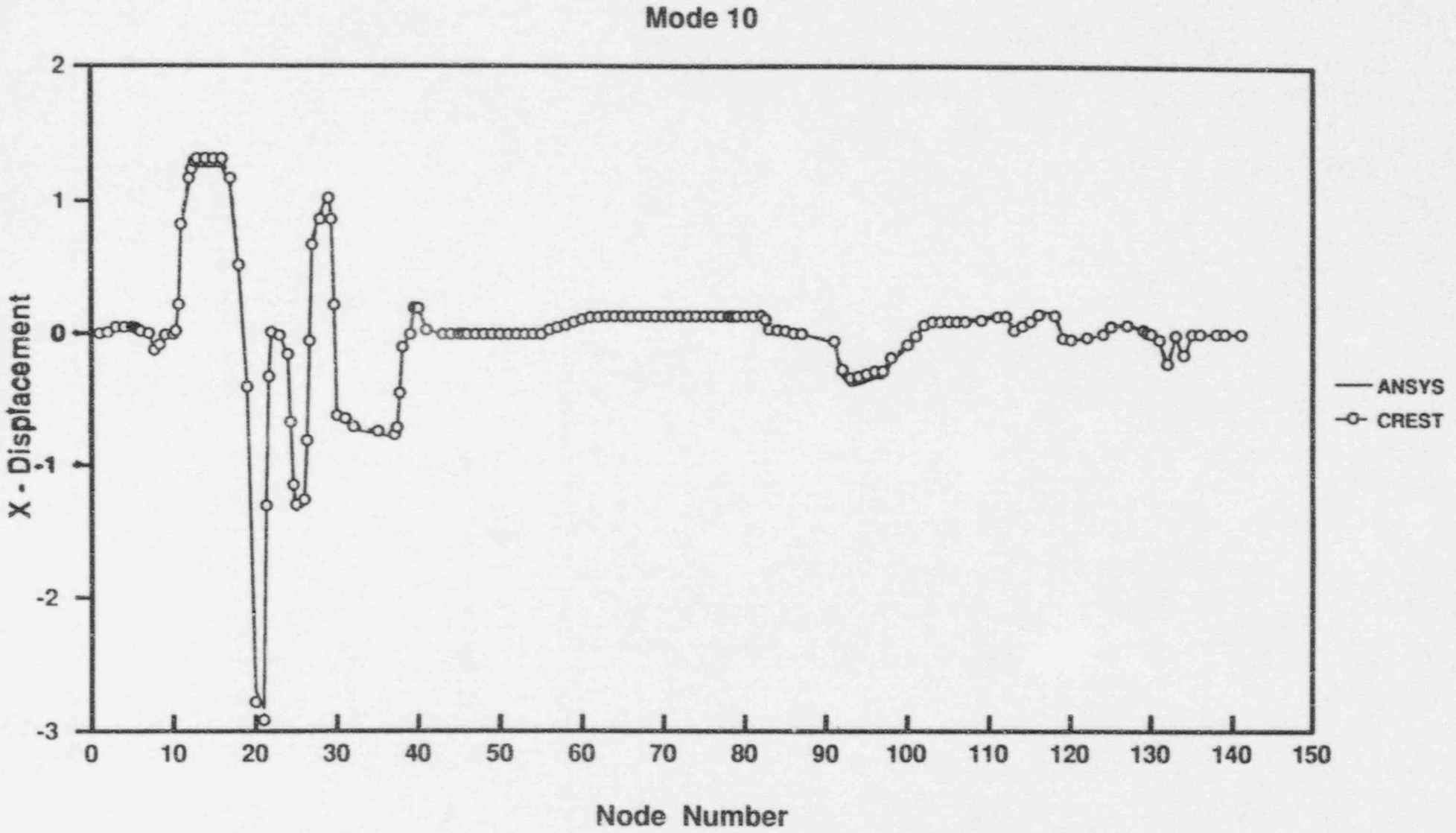

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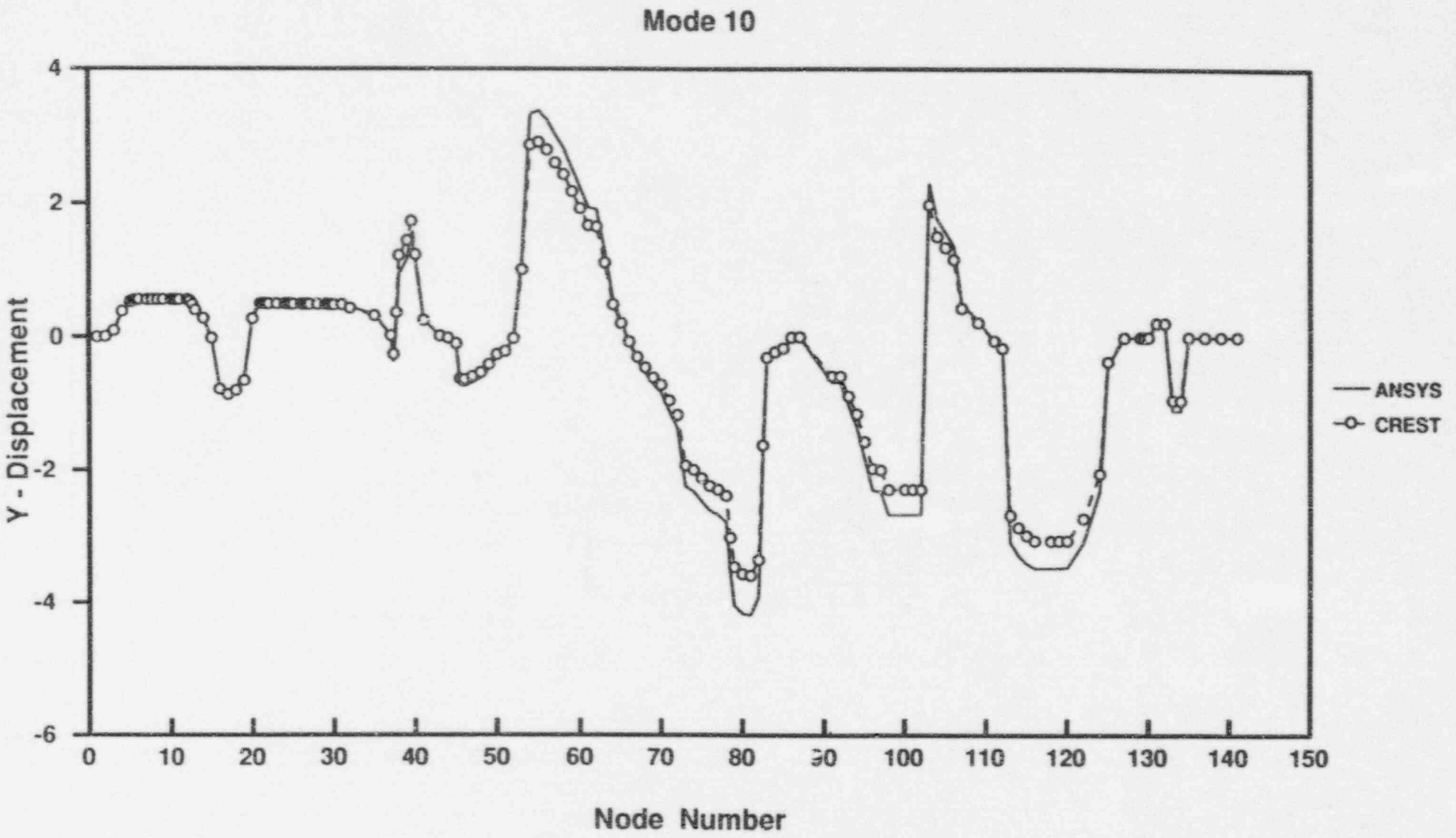

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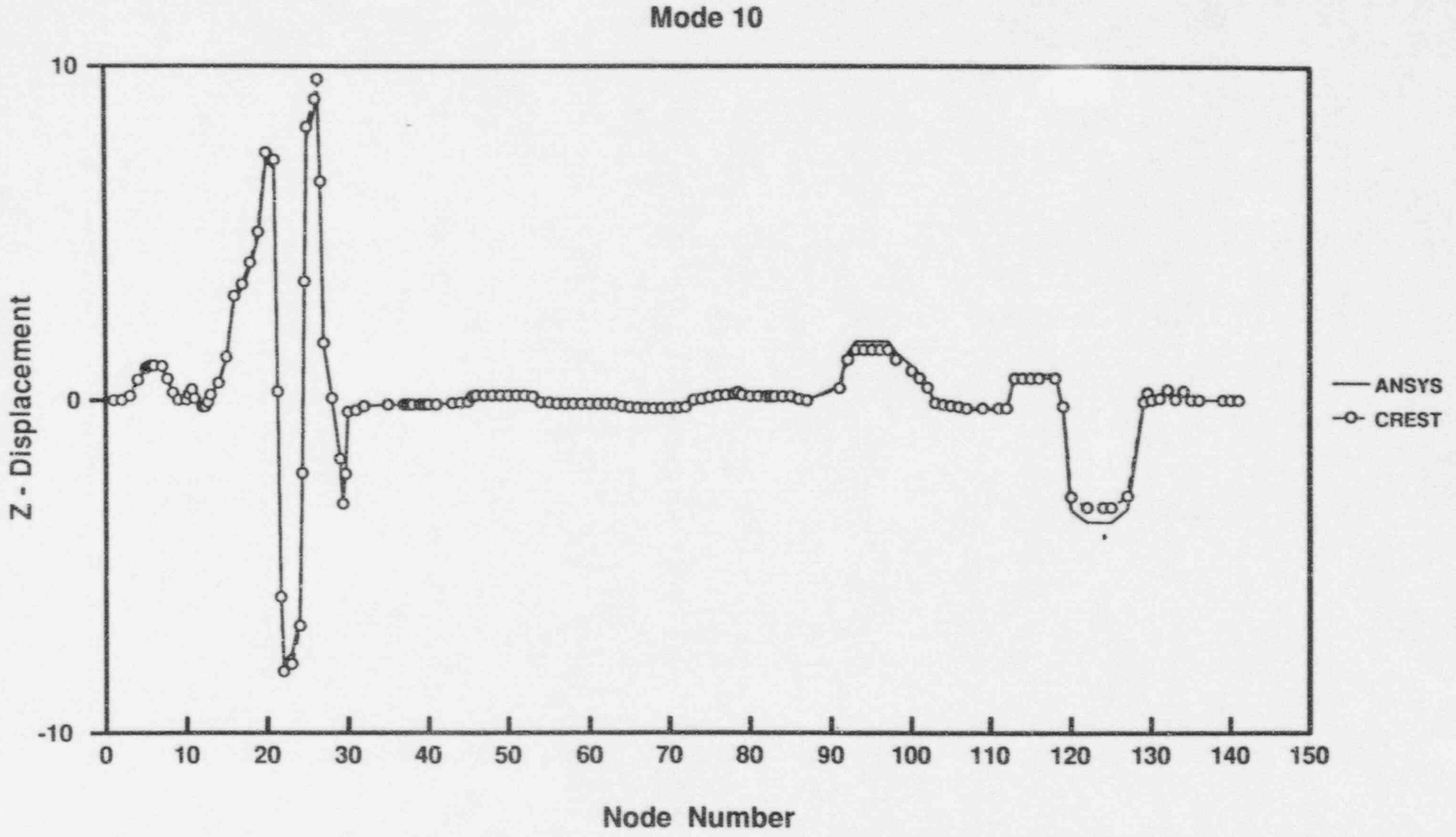

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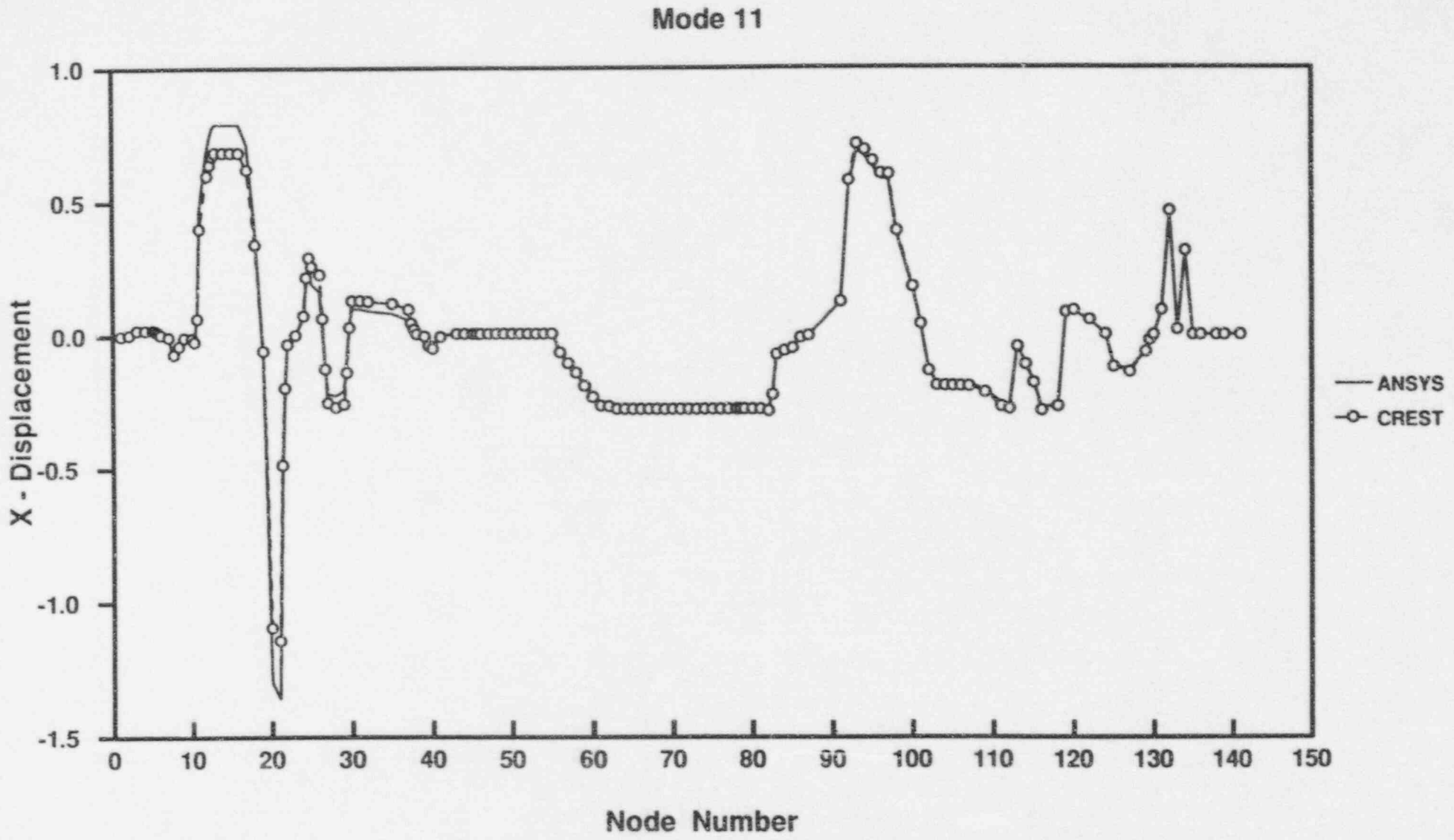

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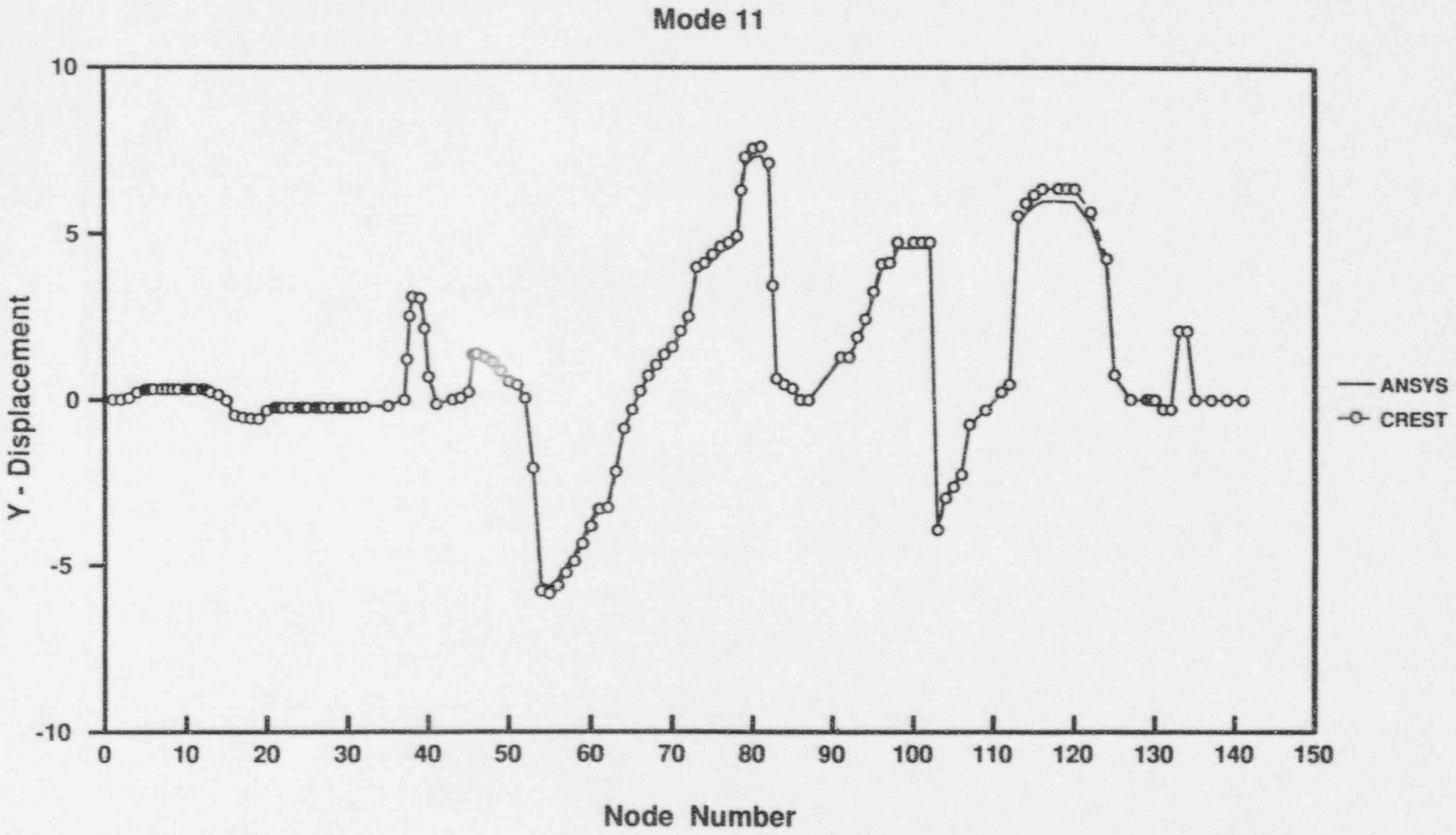

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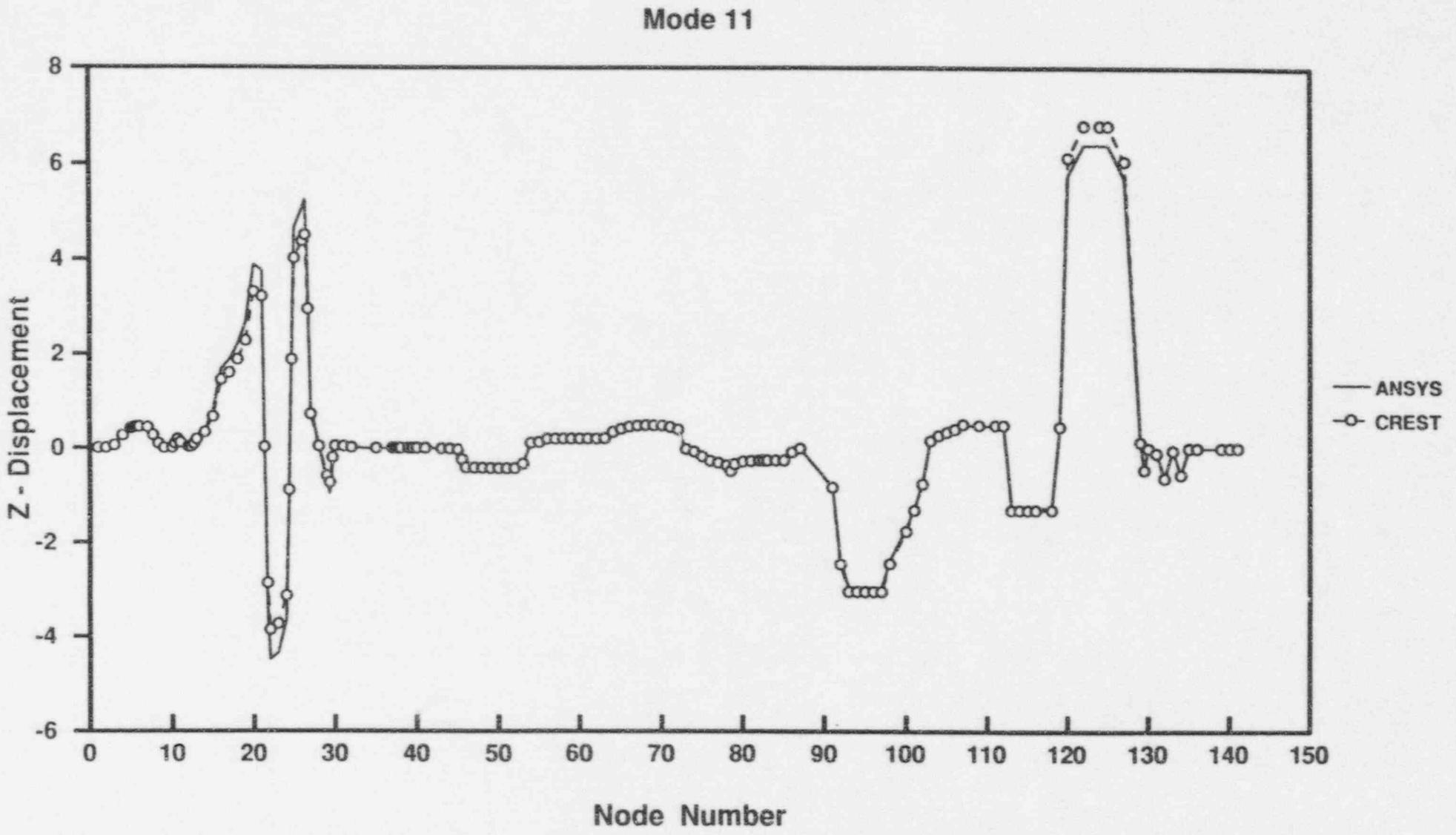

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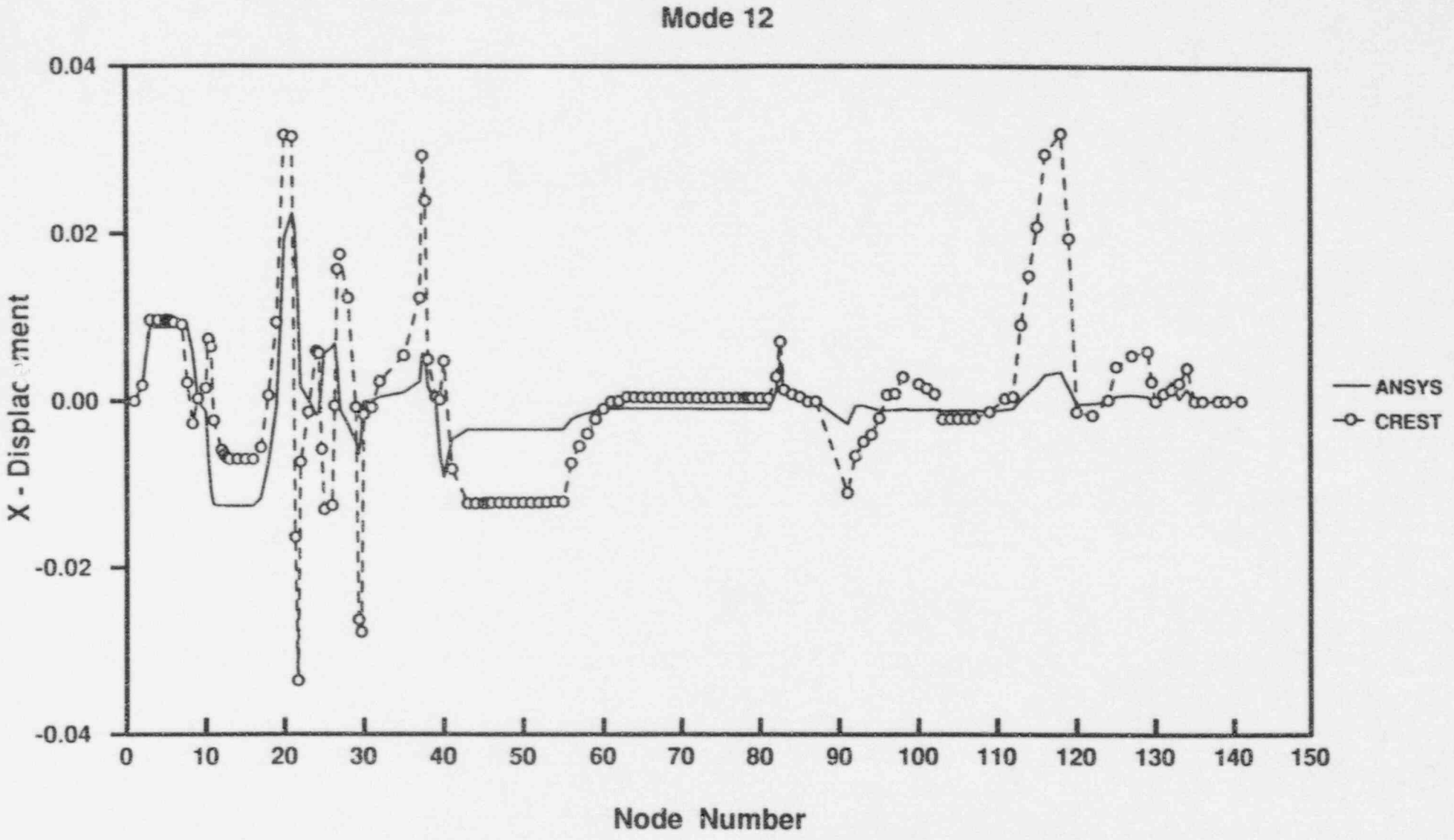

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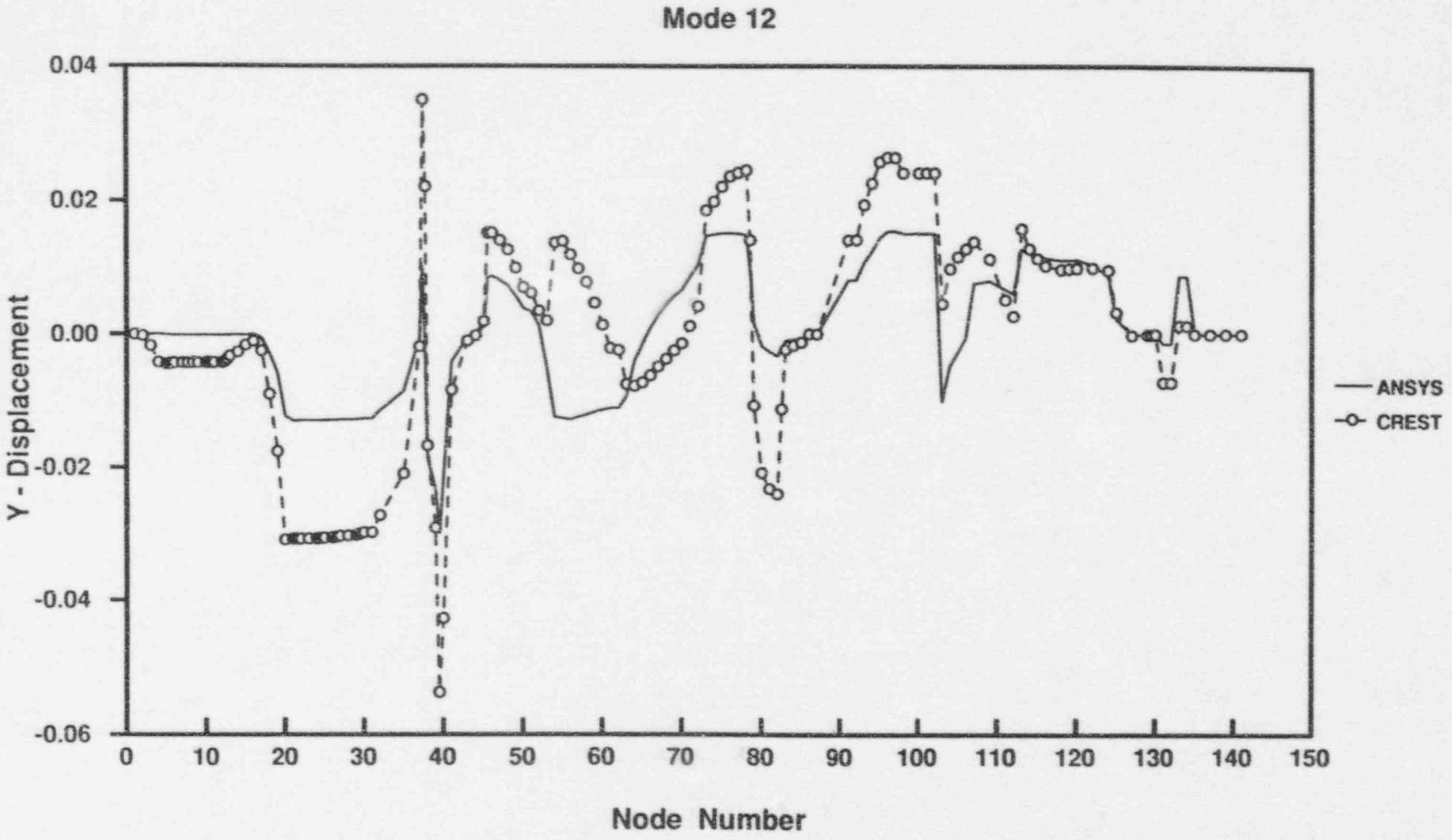

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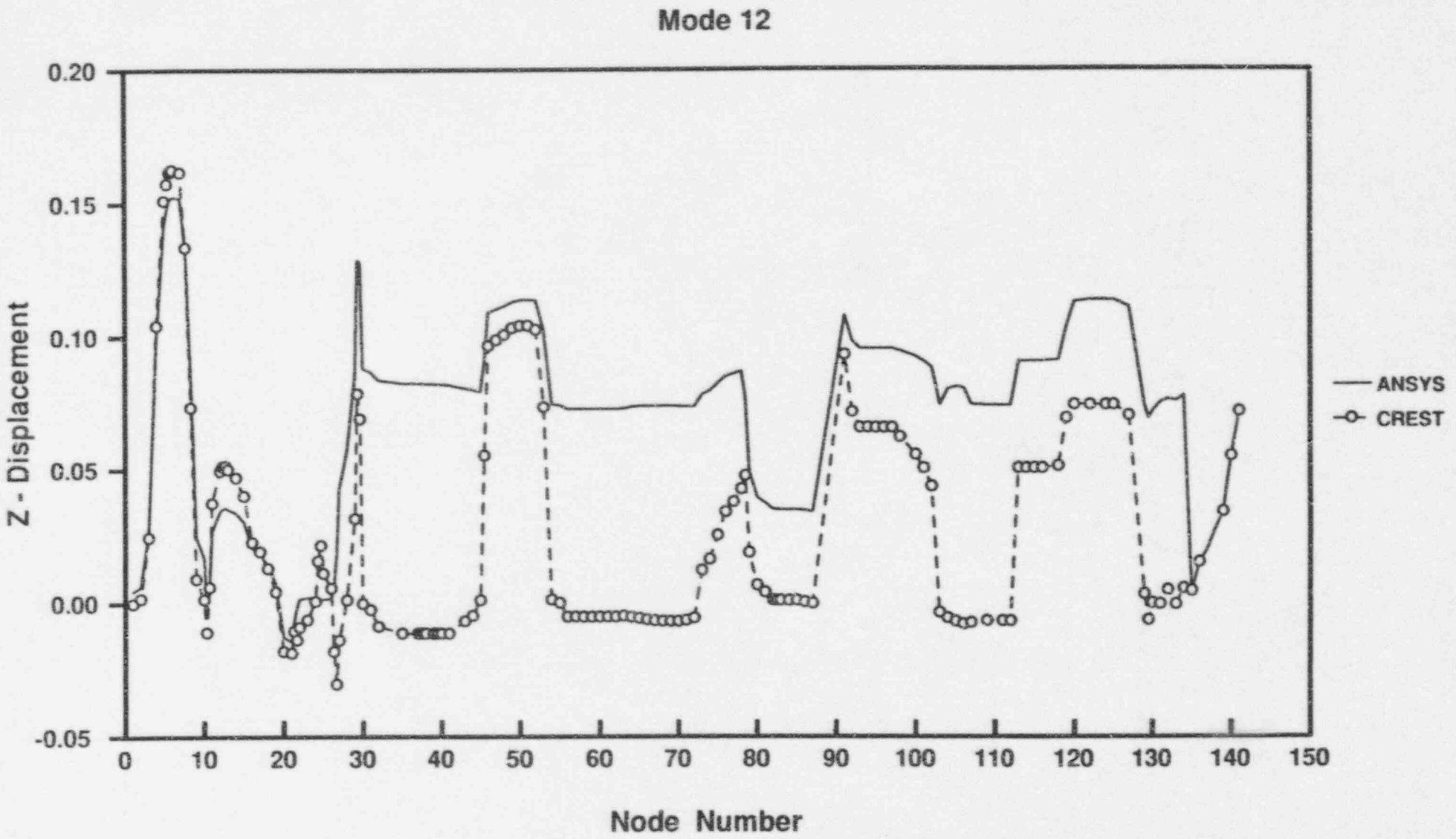

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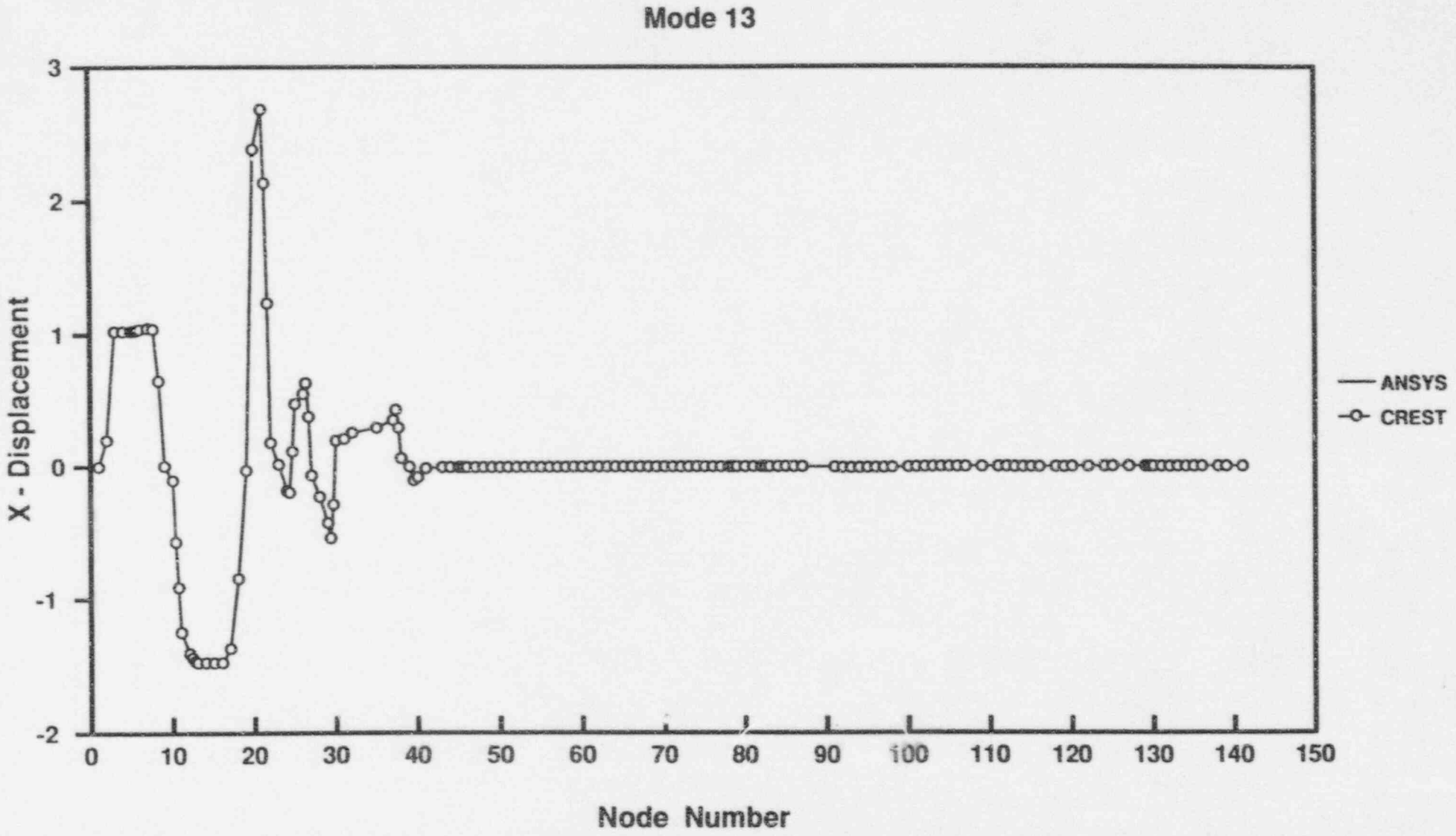

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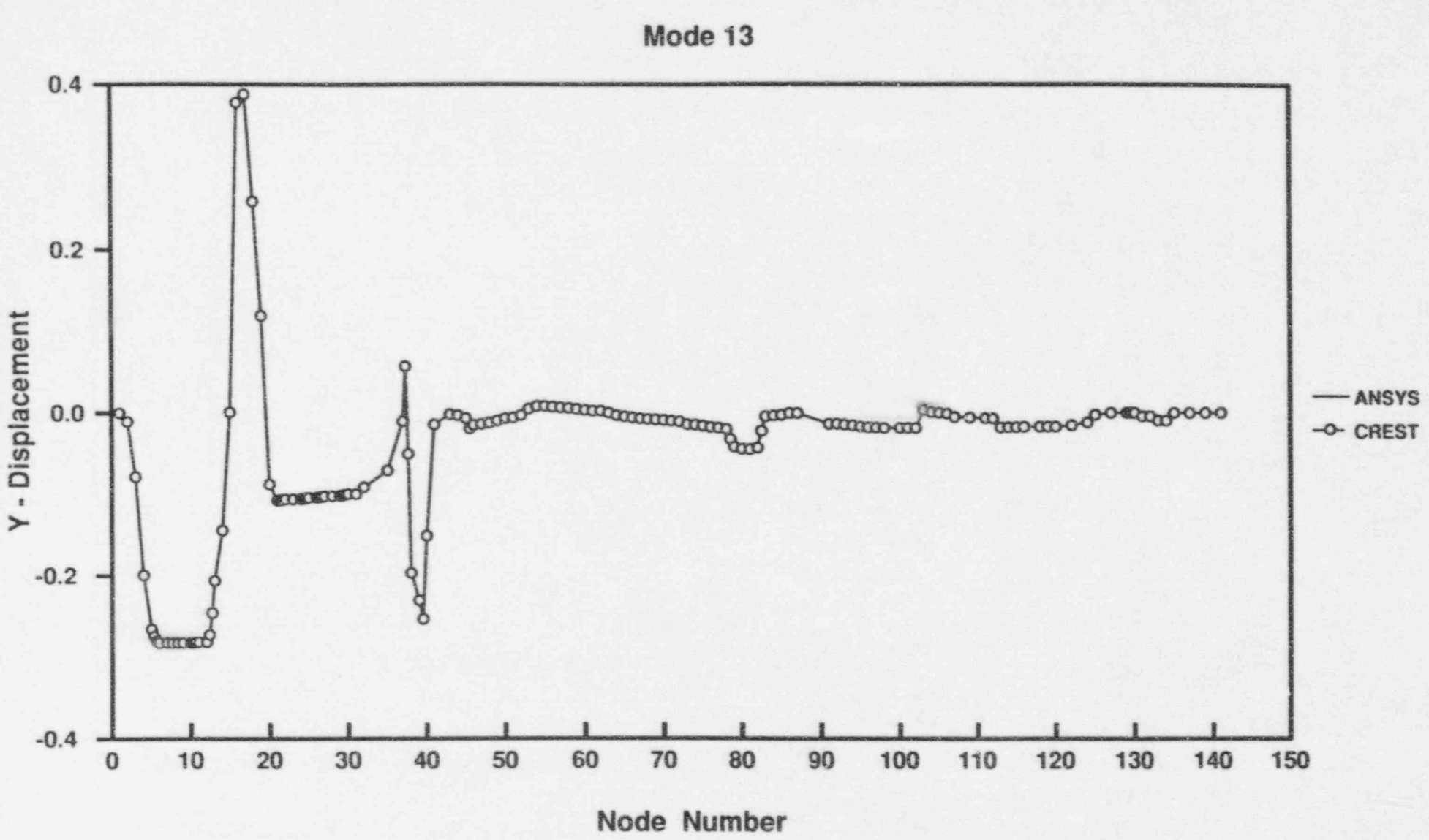

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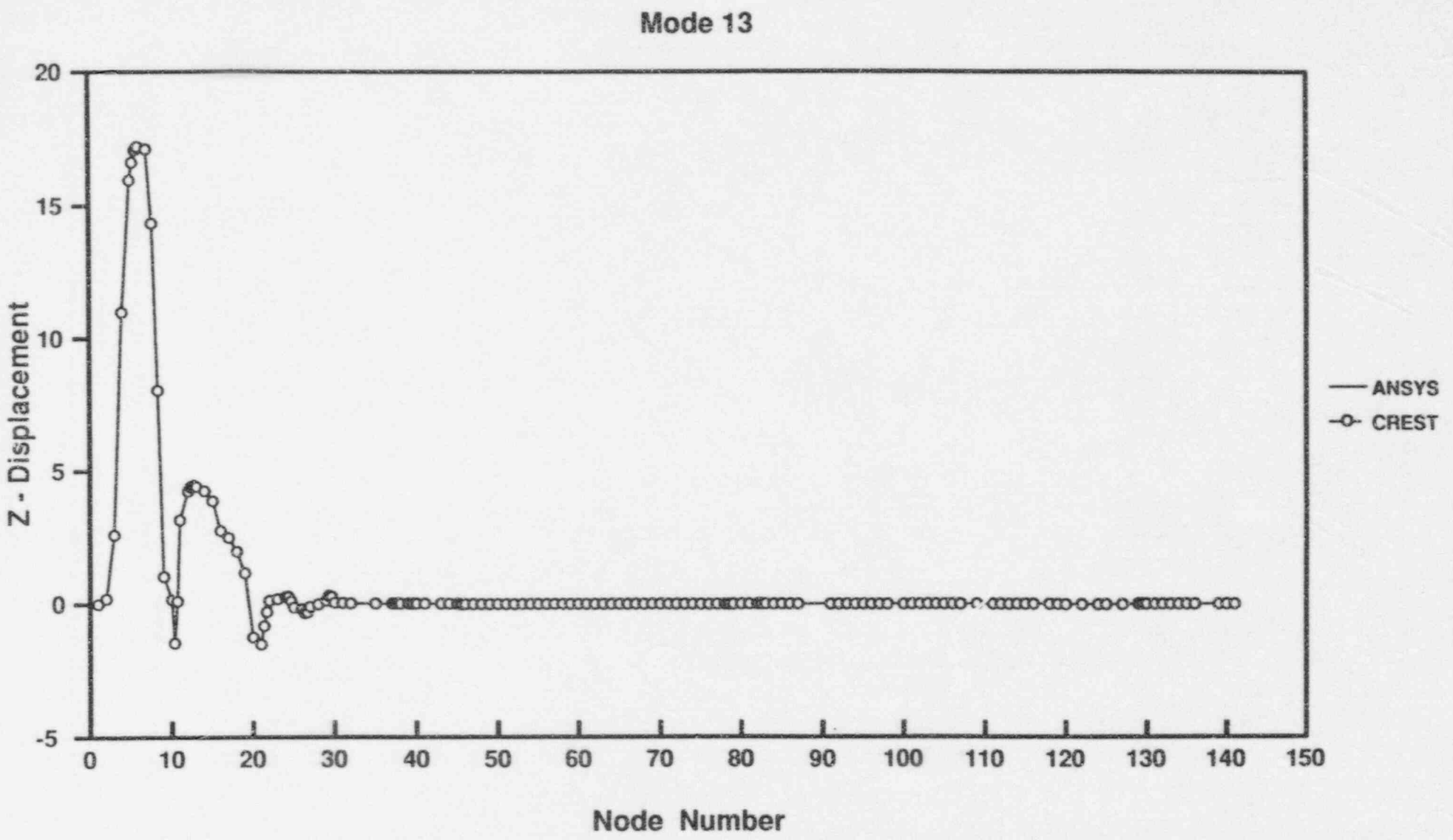

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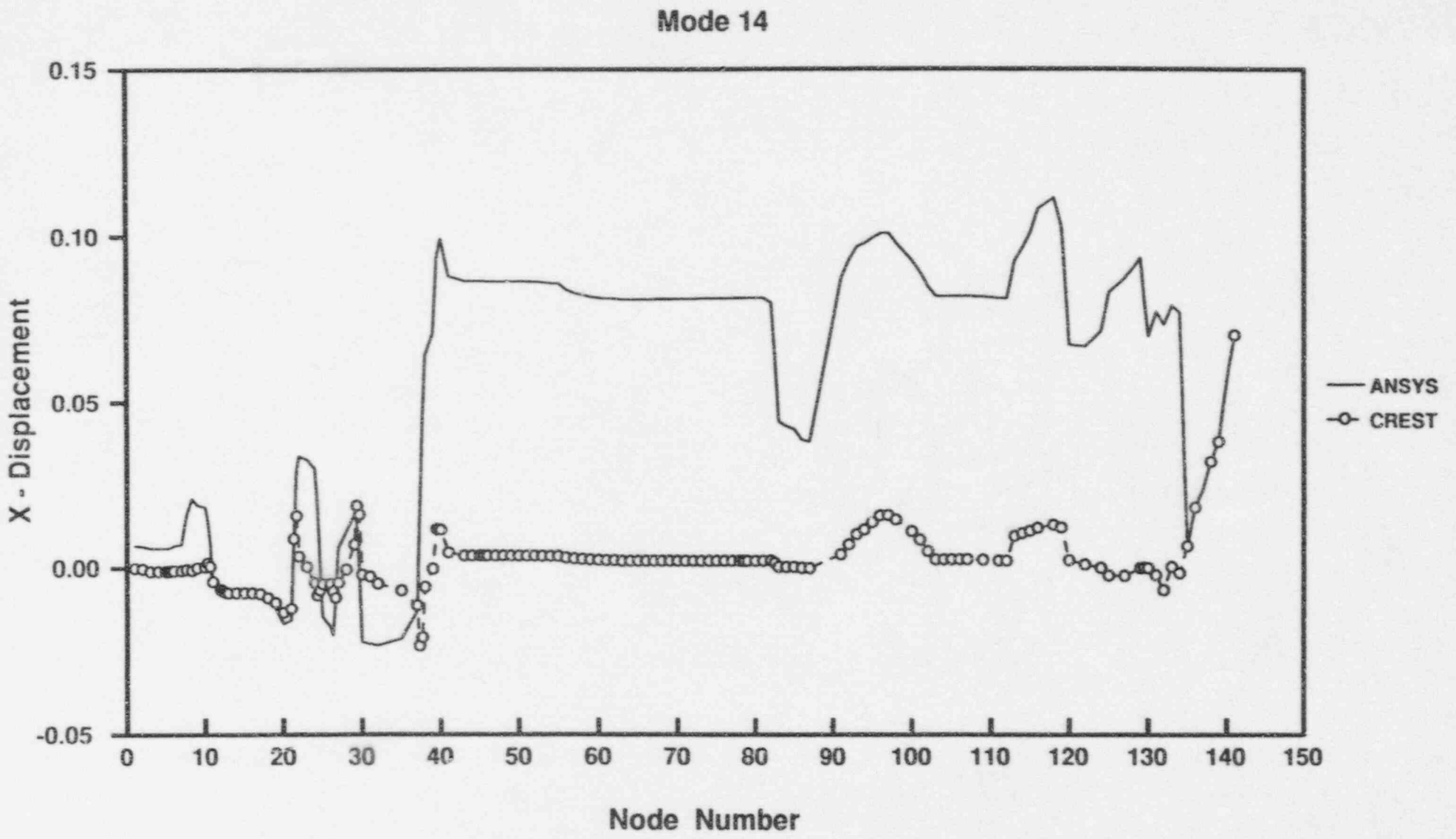

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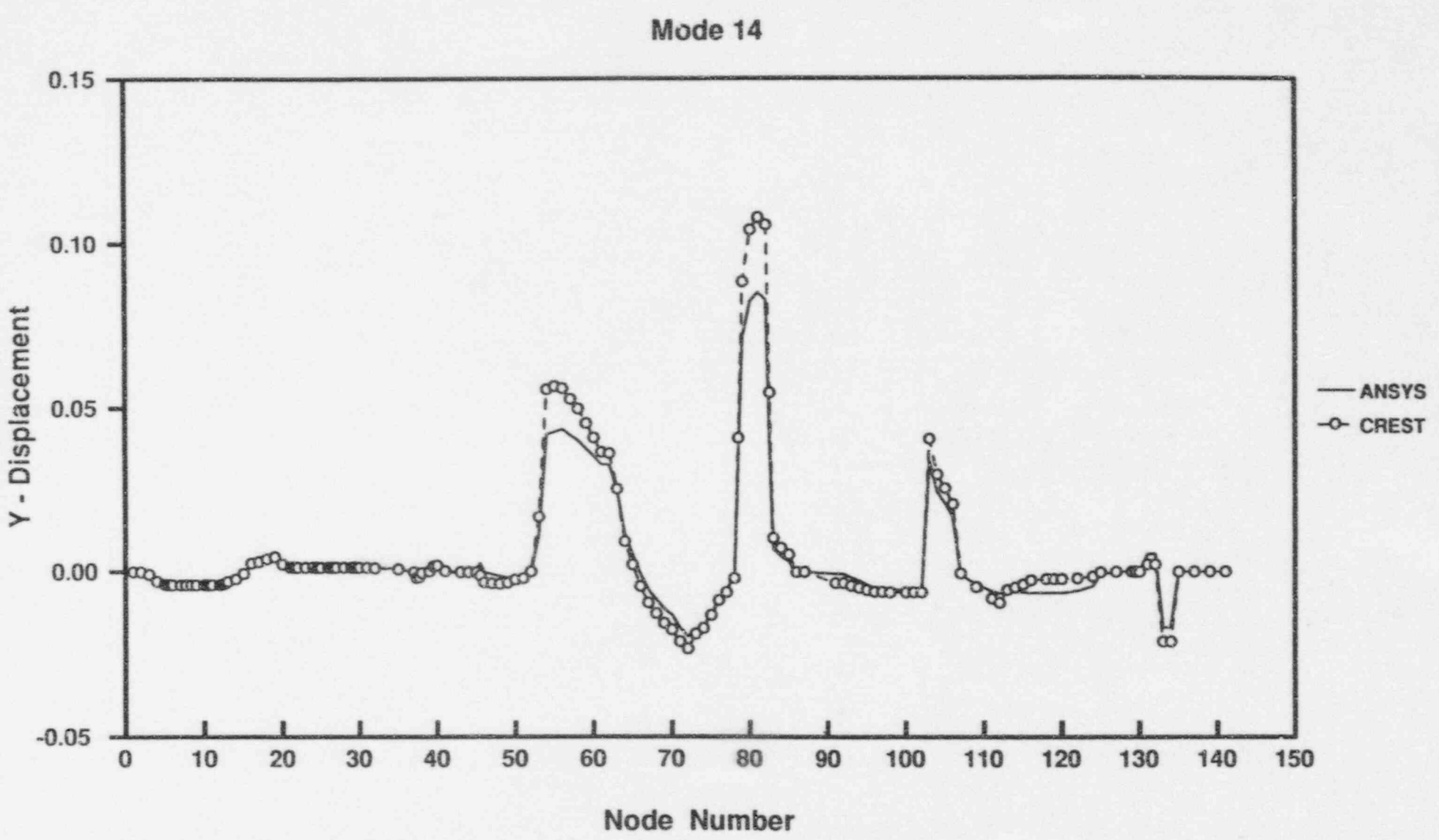

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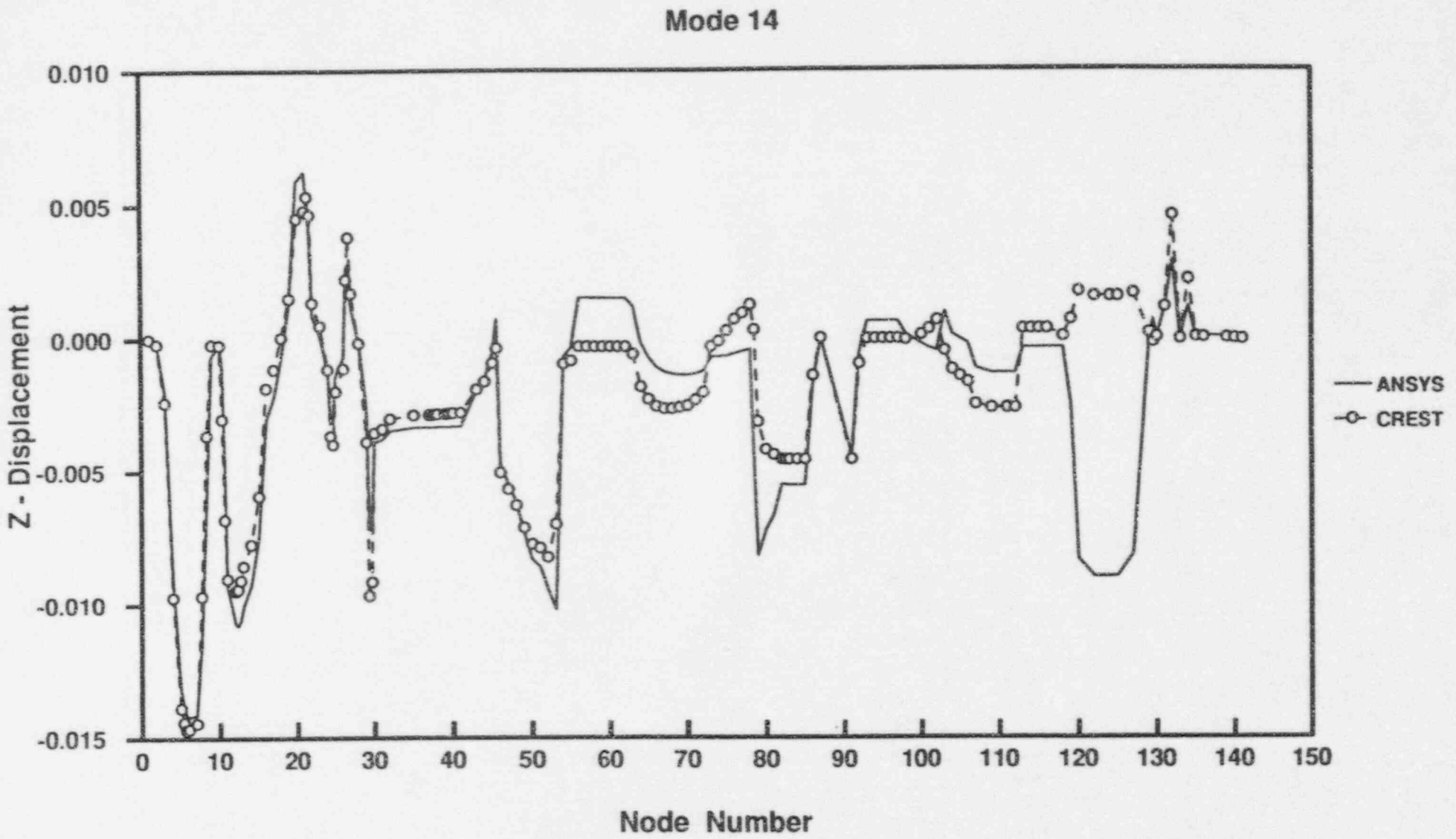

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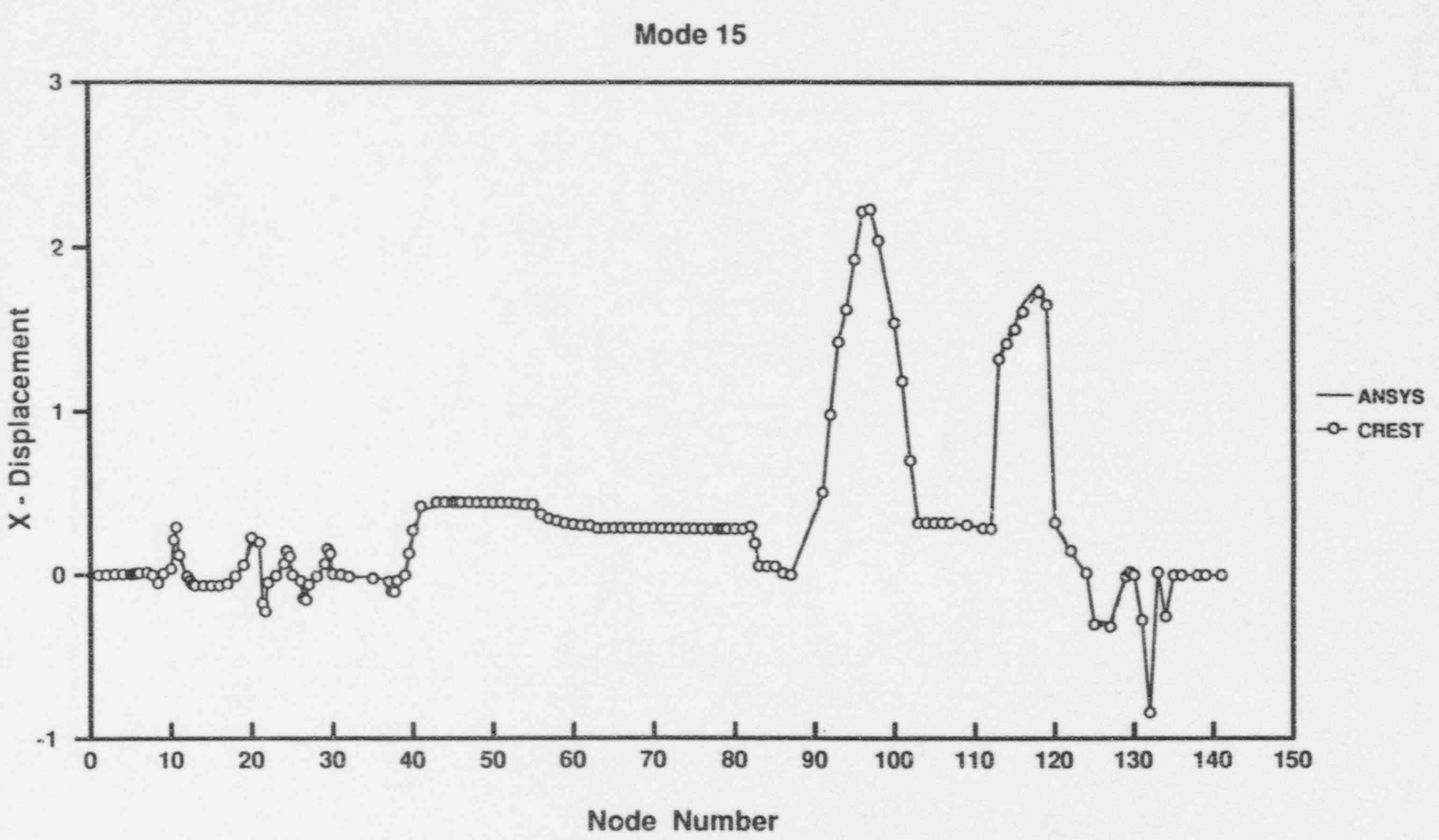

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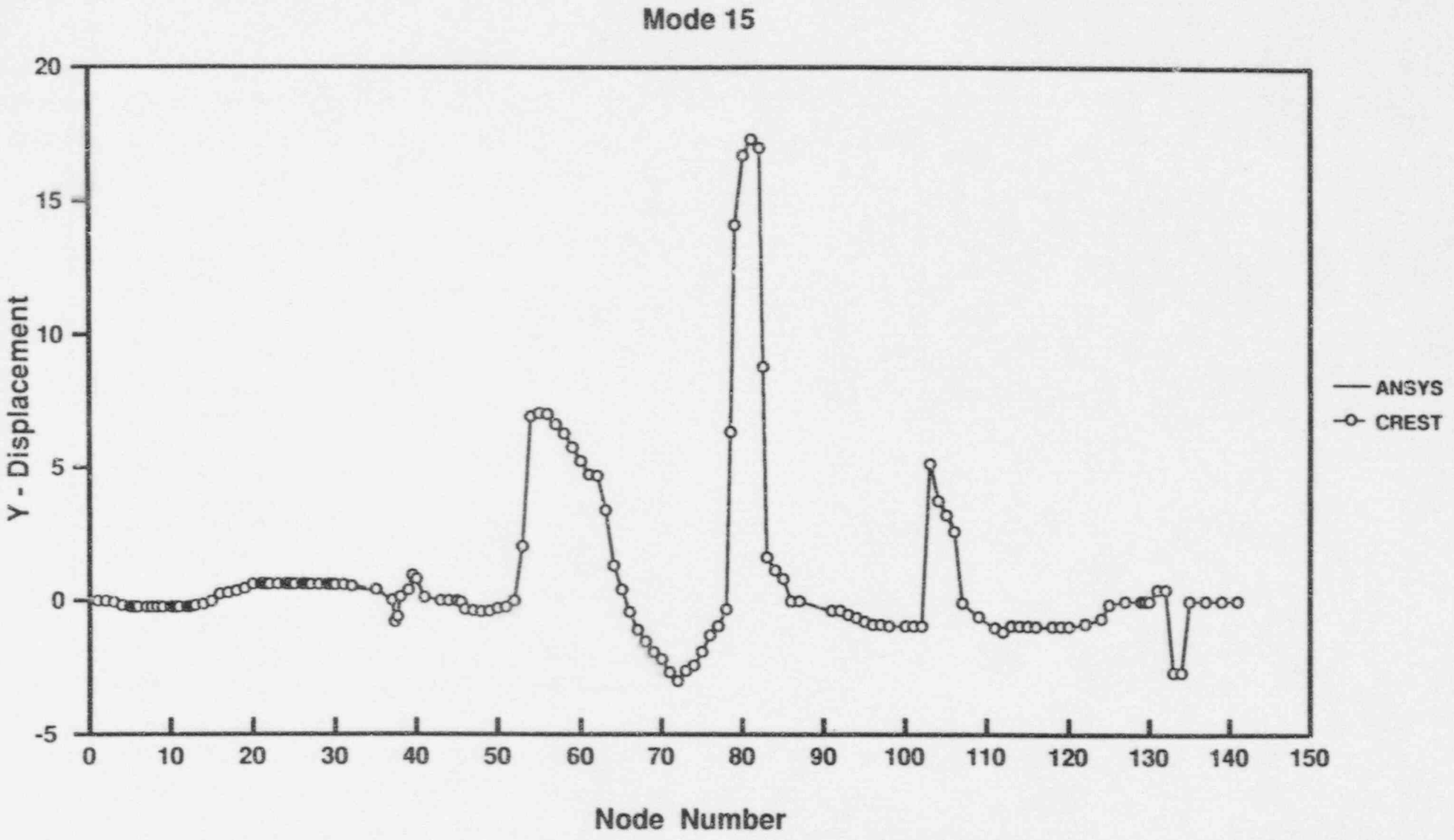

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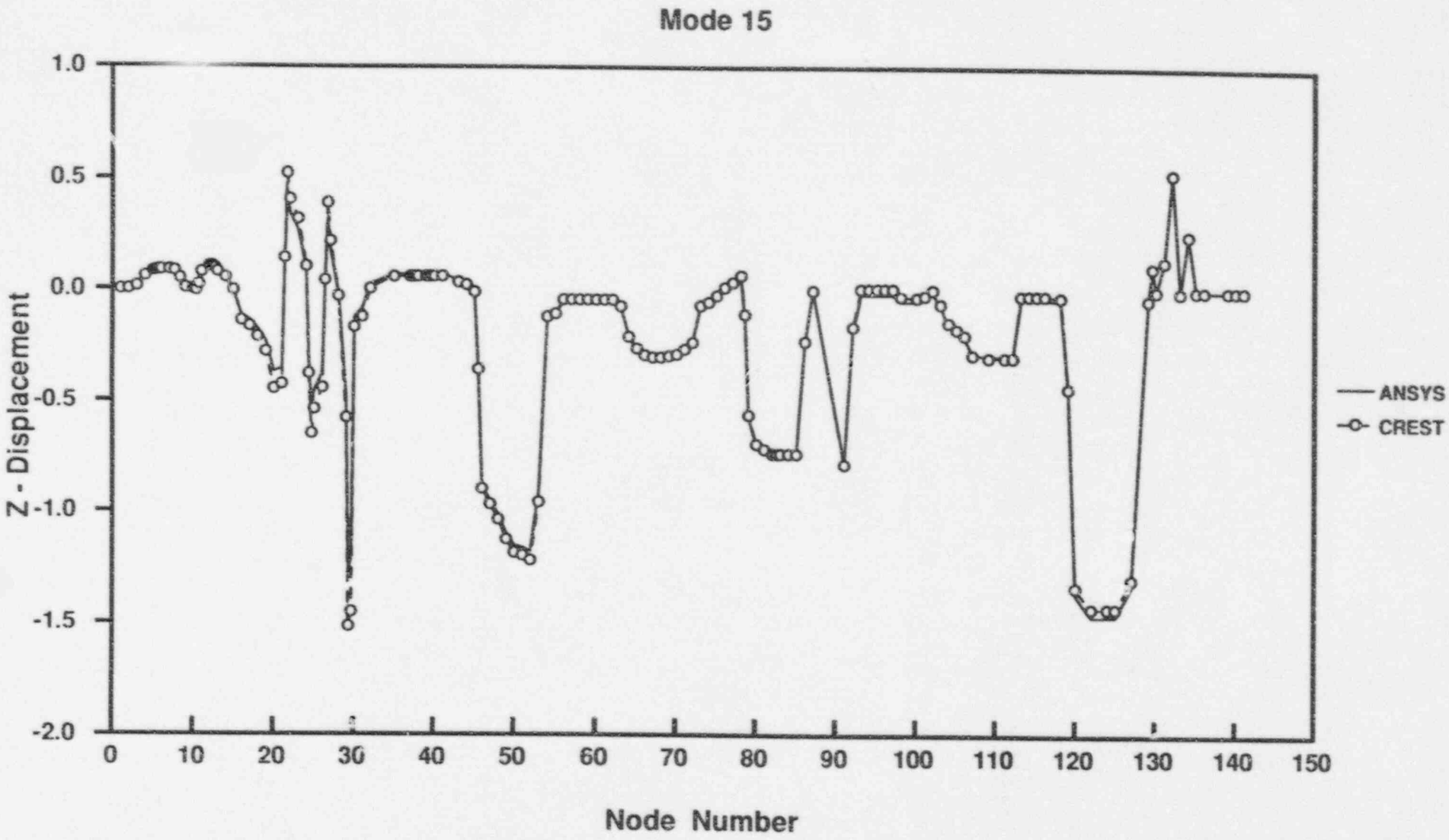
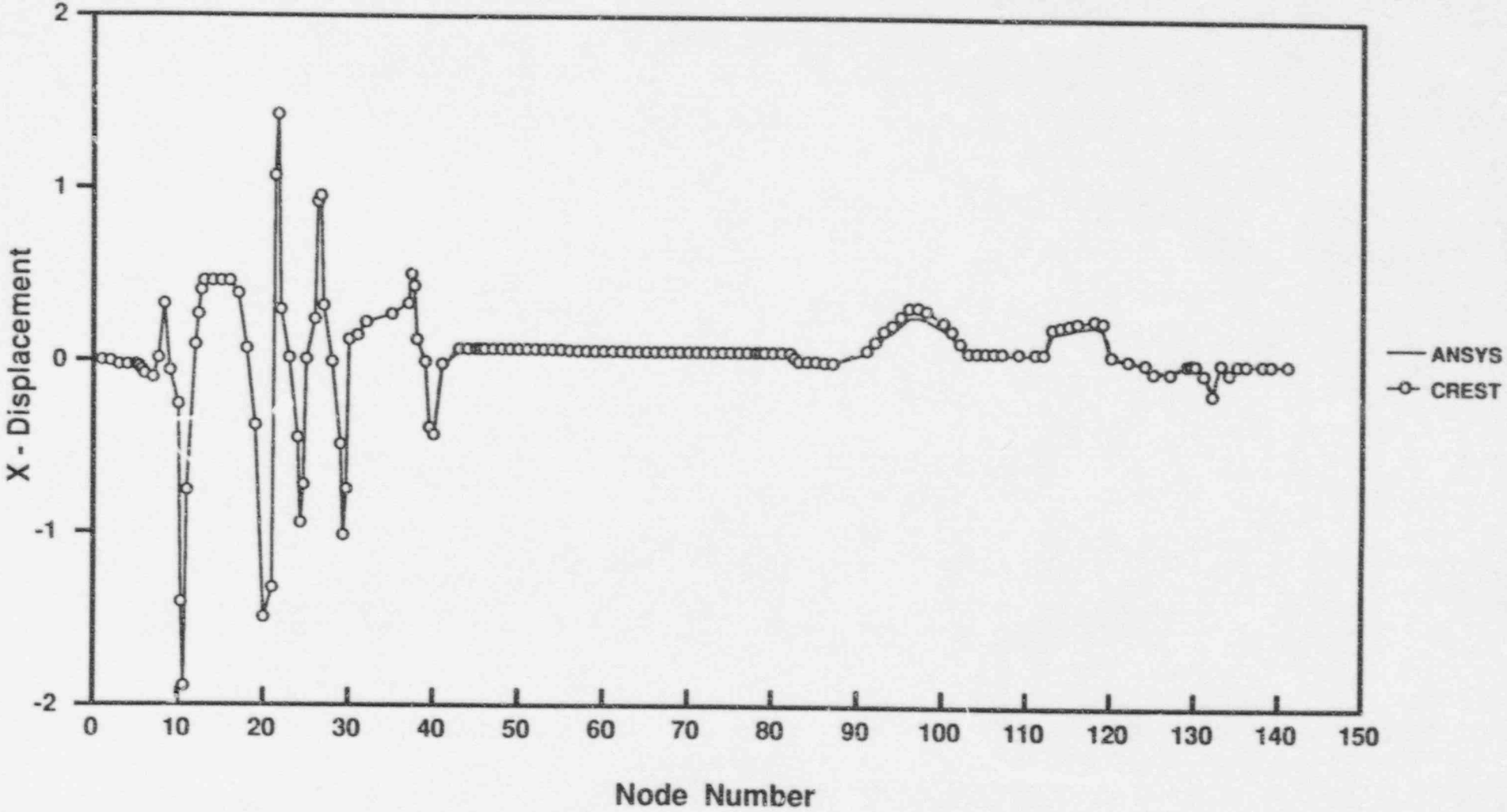


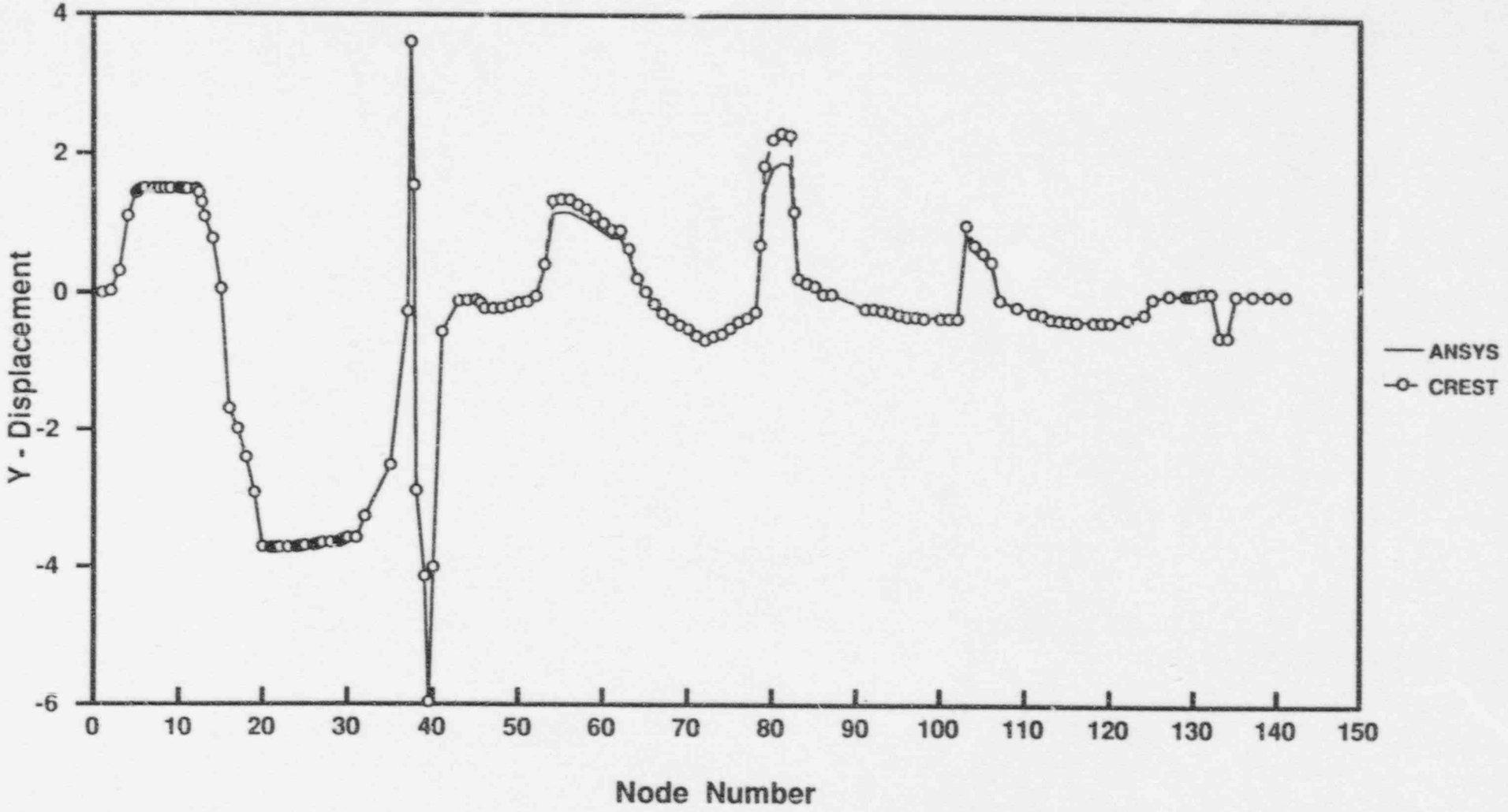
For relative locations of nodes please see the reference material

Mode 16

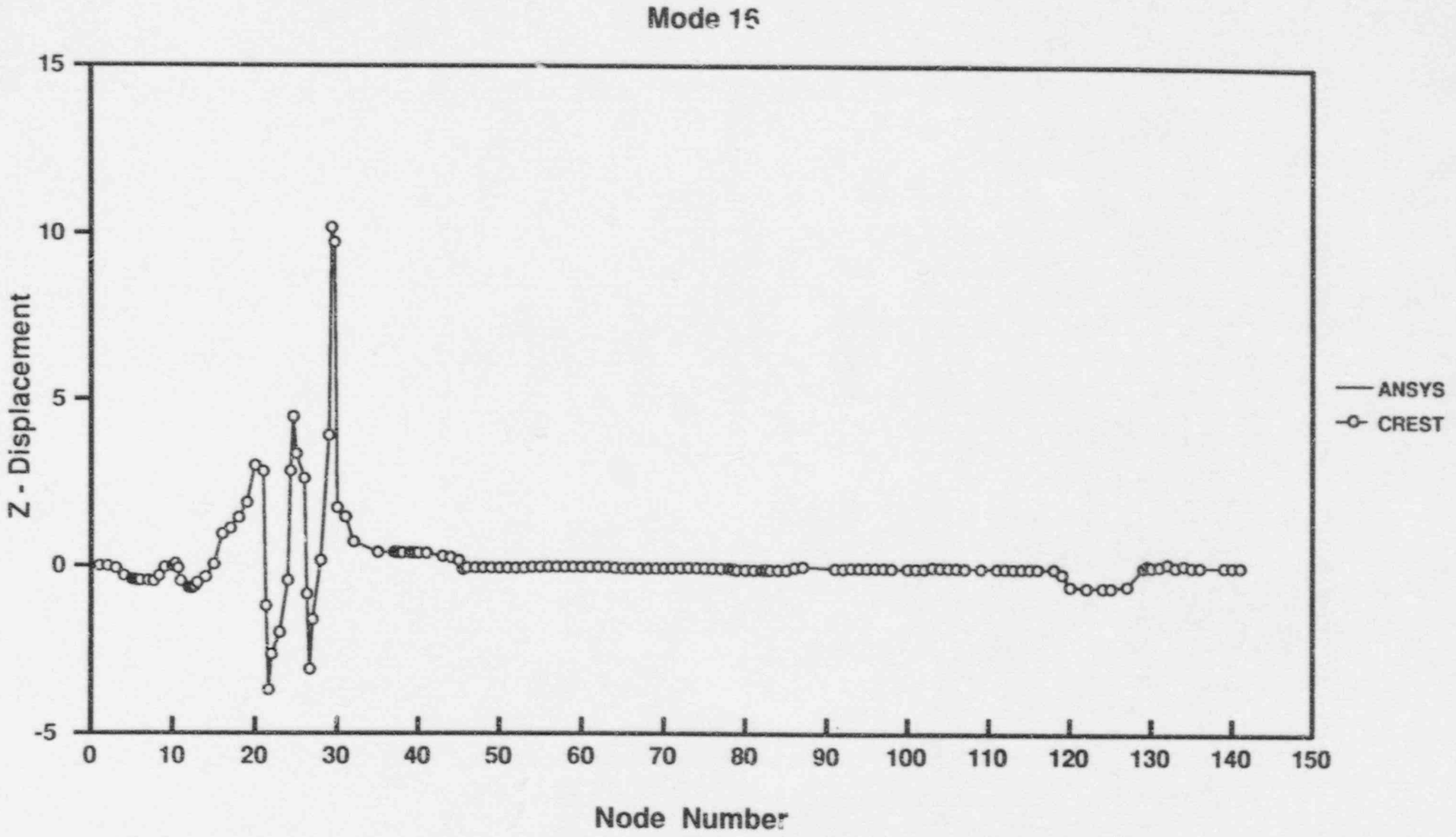


For relative locations of nodes please see the reference material

Mode 16



For relative locations of nodes please see the reference material



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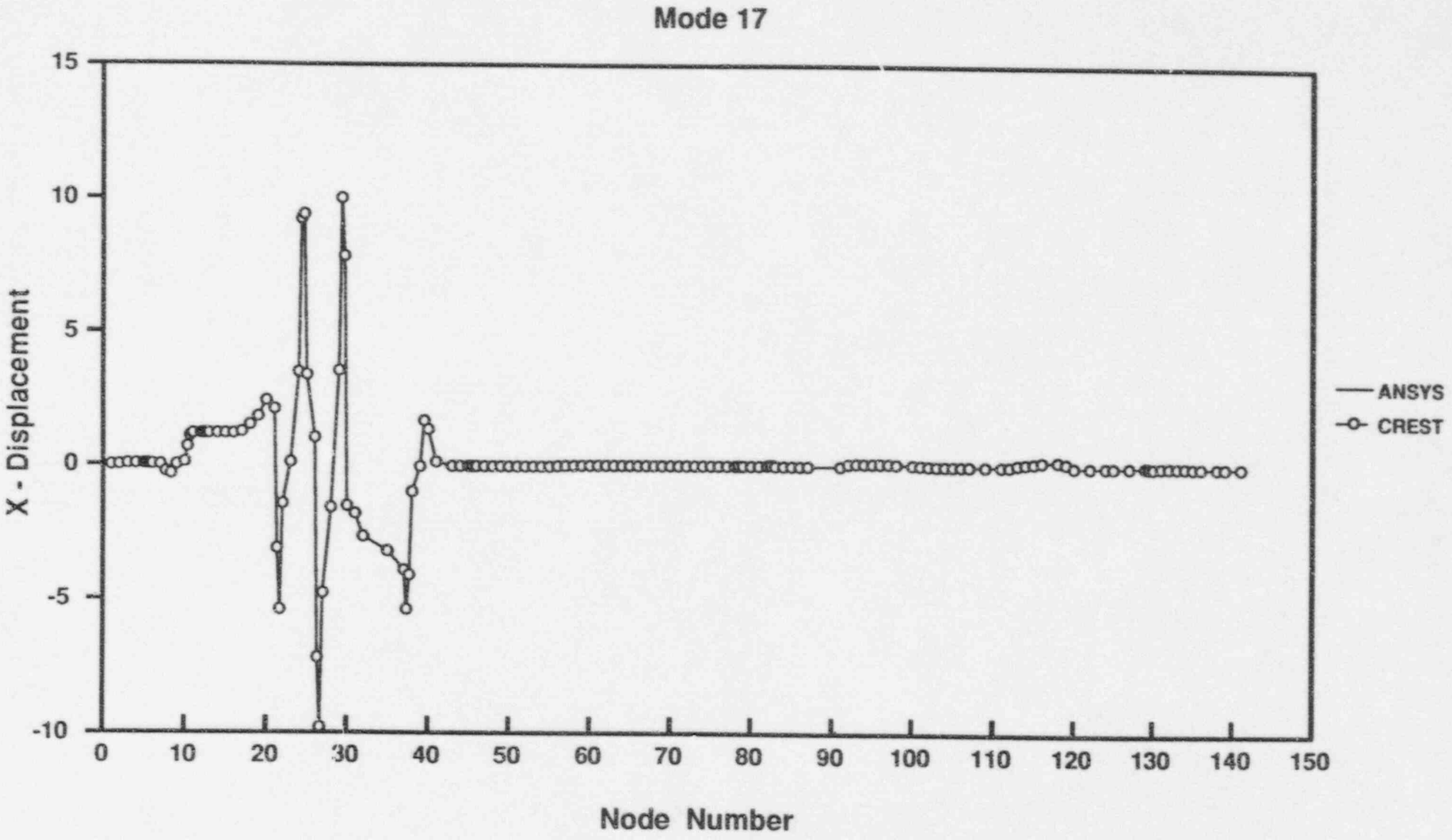

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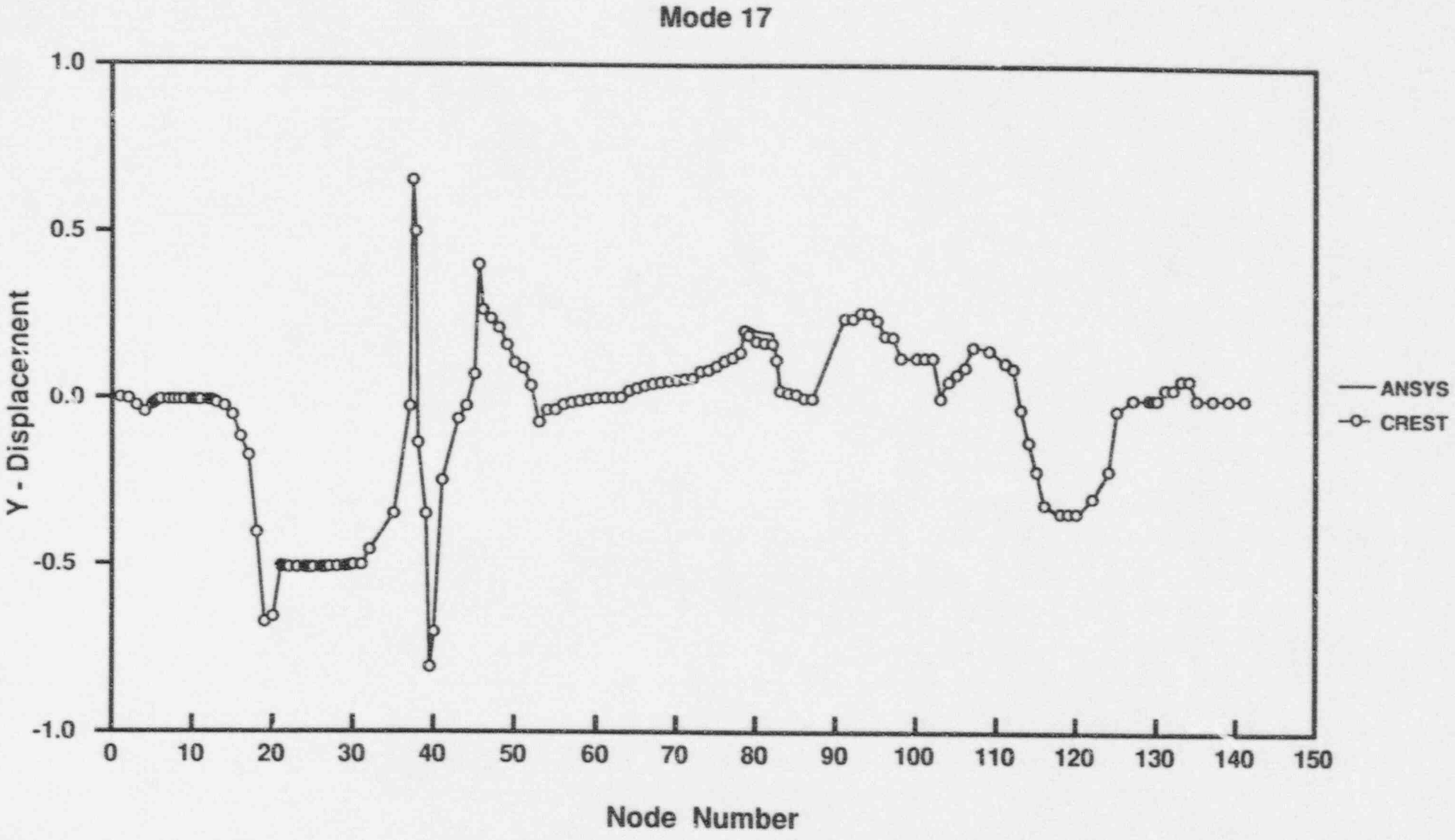

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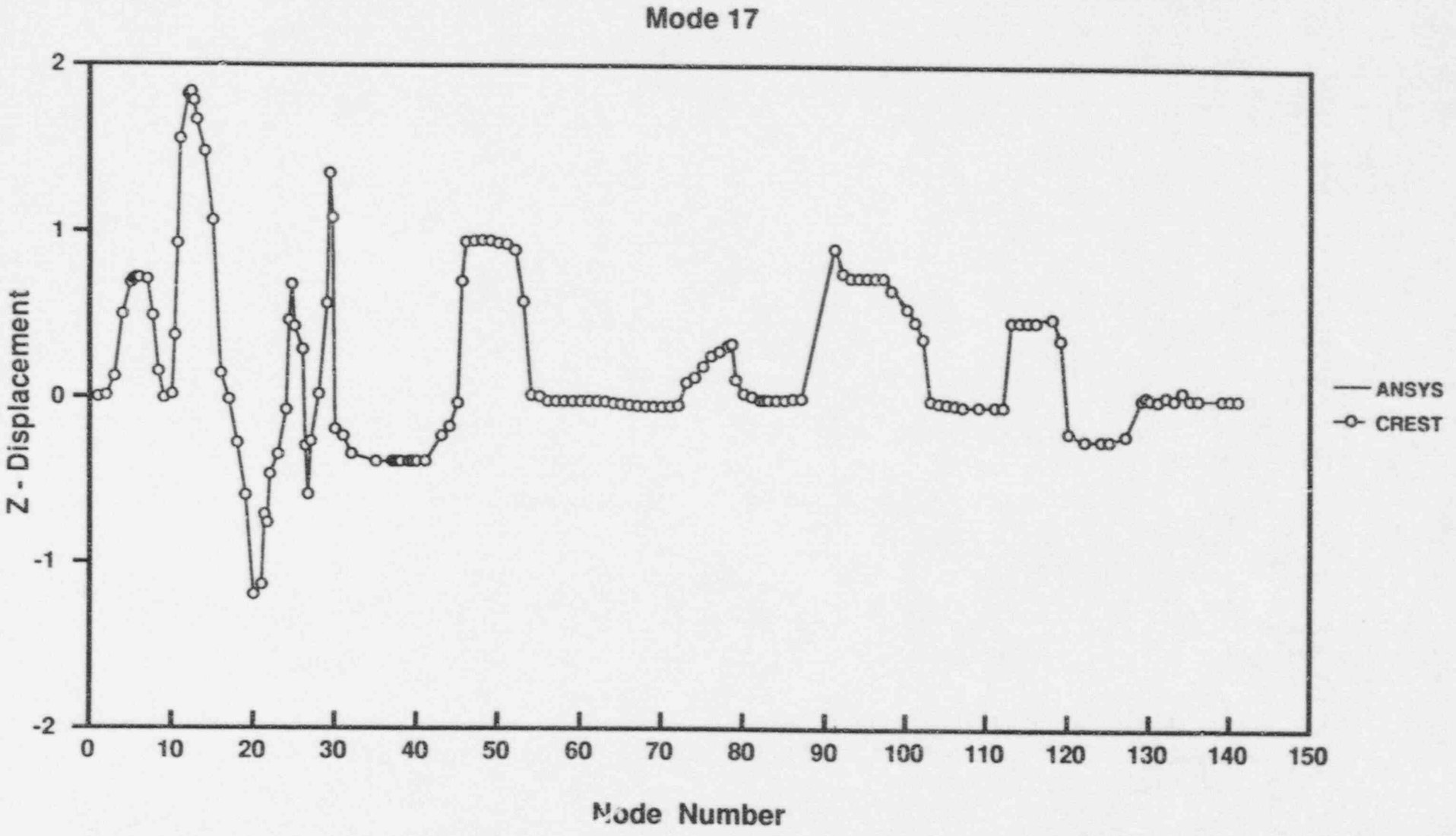
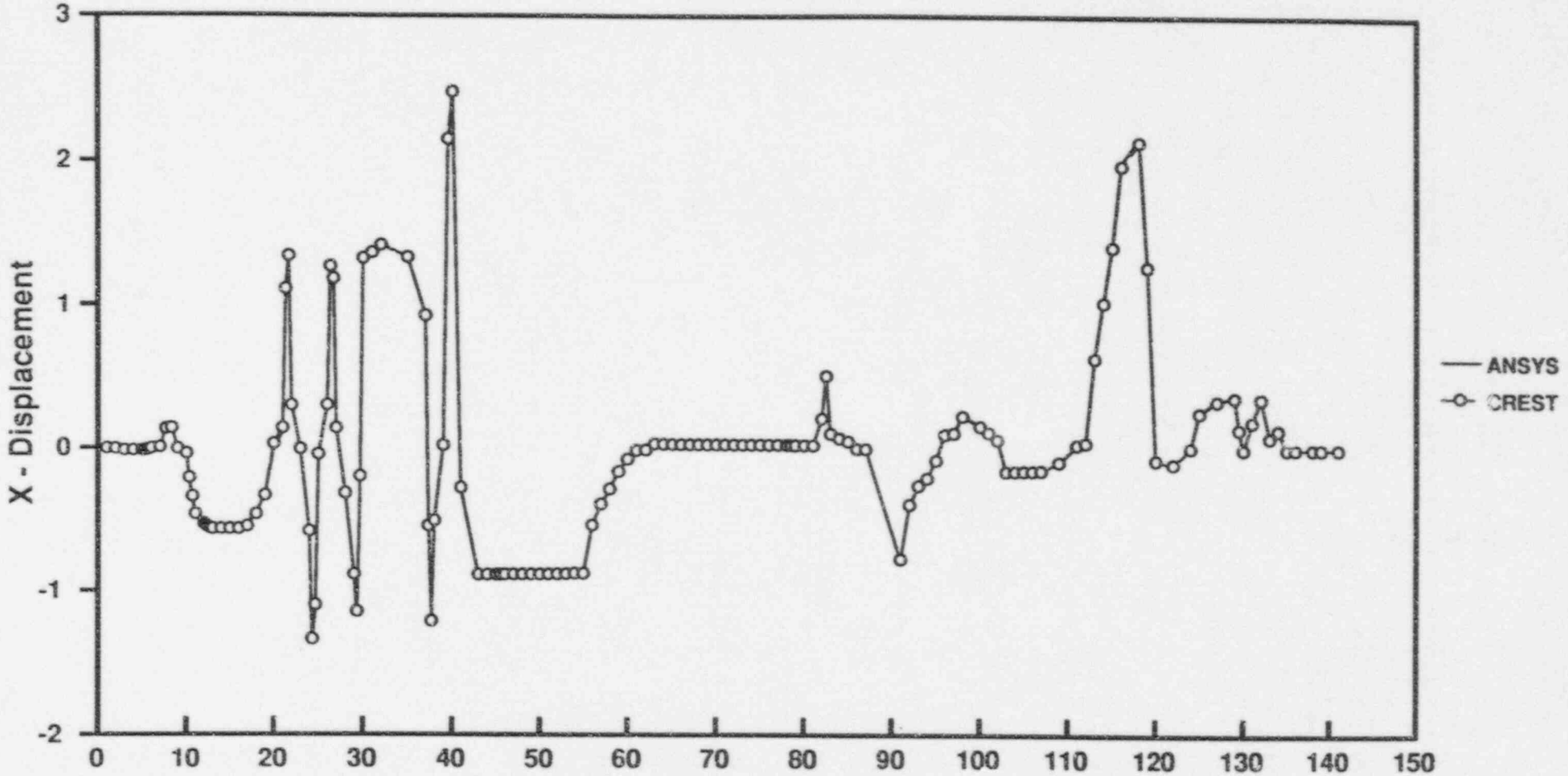
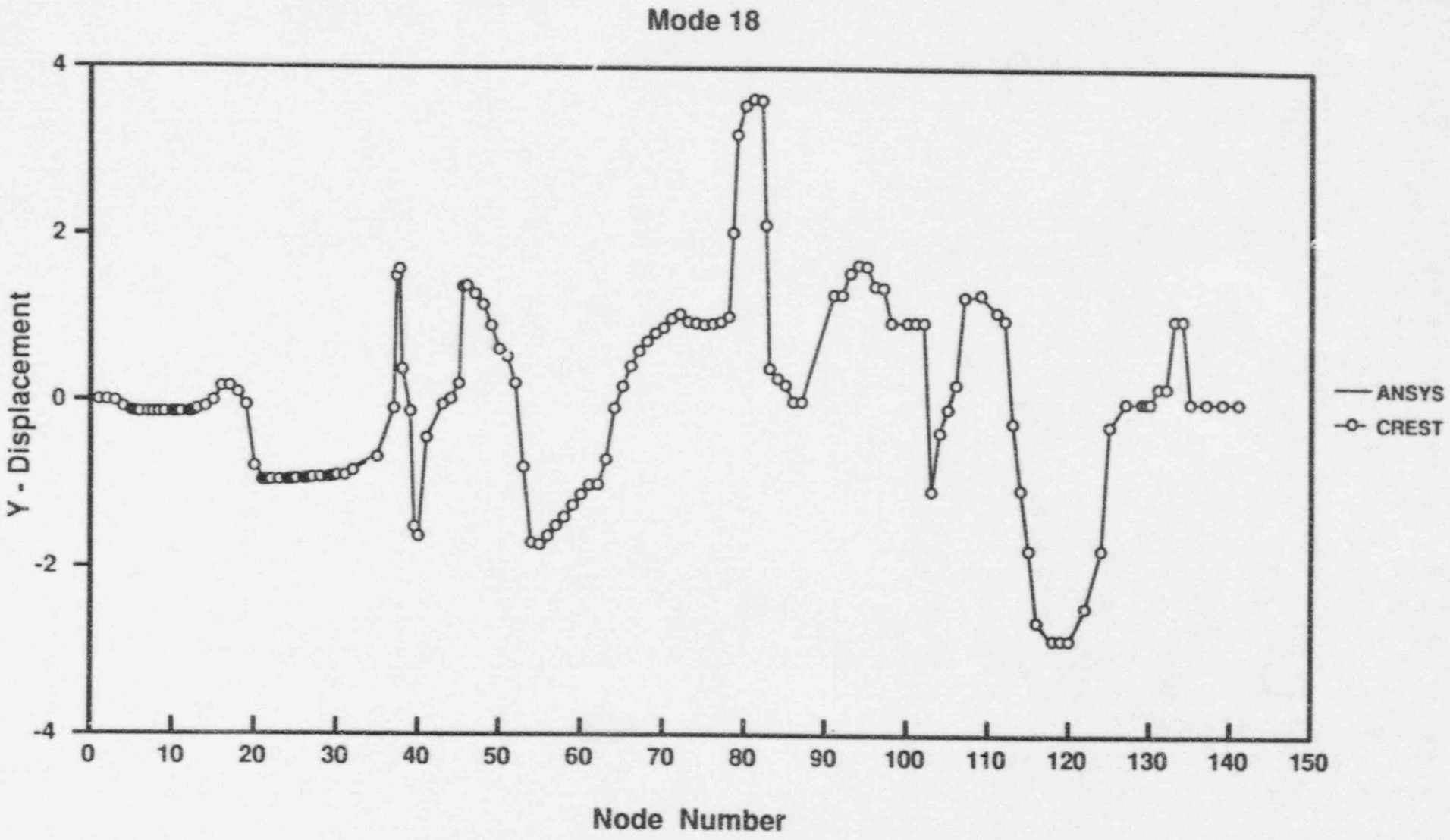


For relative locations of nodes please see the reference material

Mode 18



For relative locations of nodes please see the reference material



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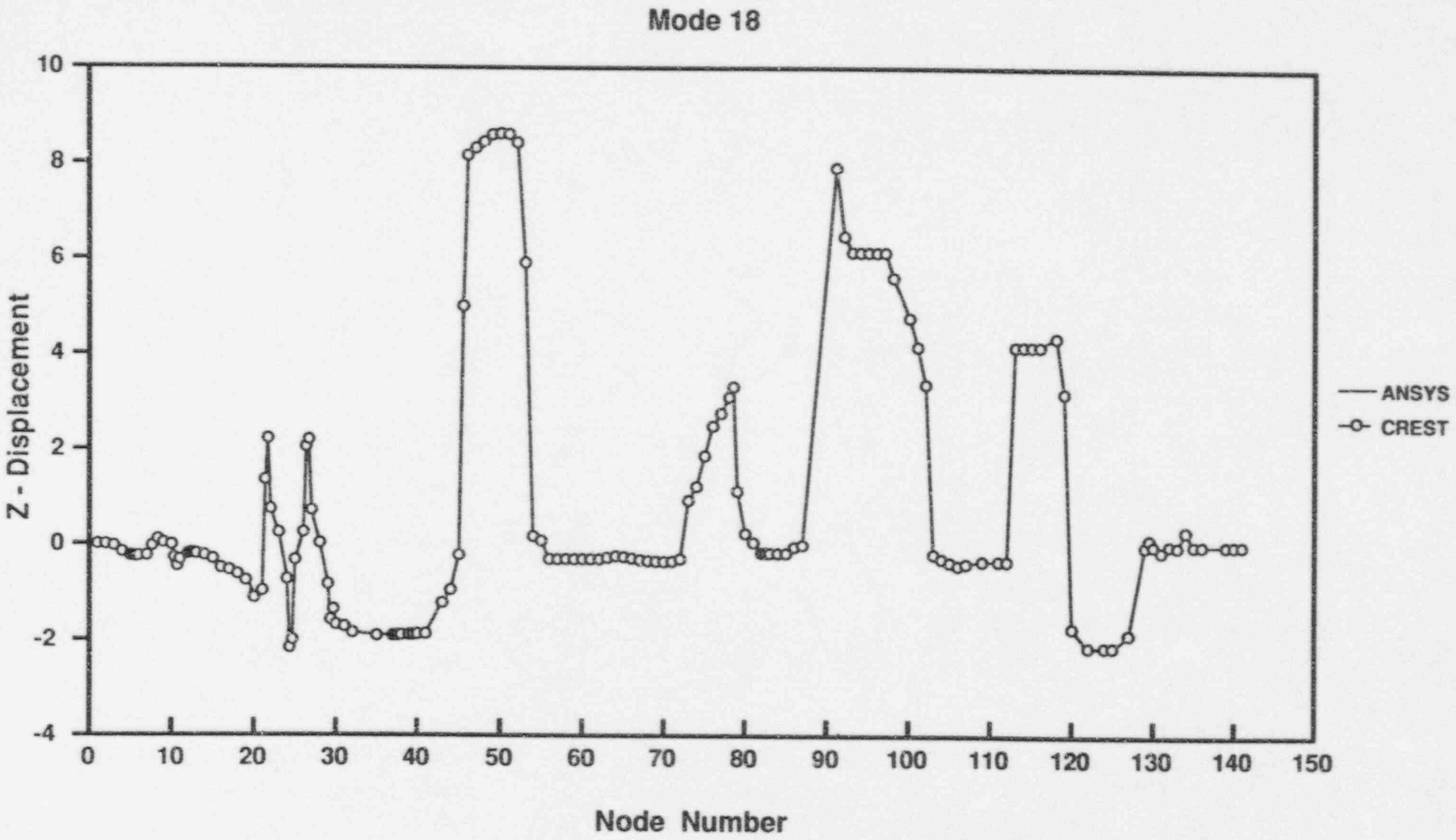
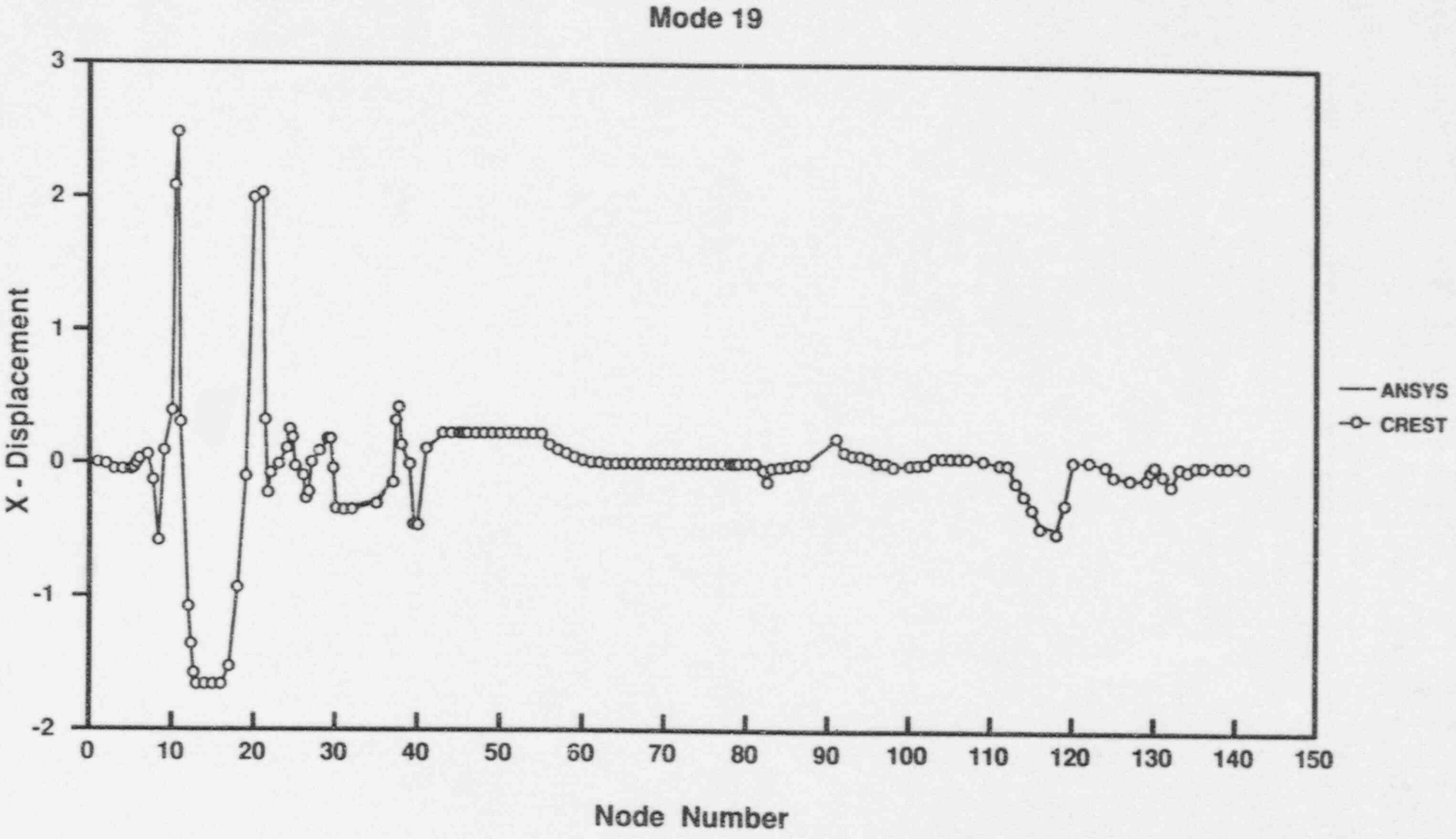


For relative locations of nodes please see the reference material



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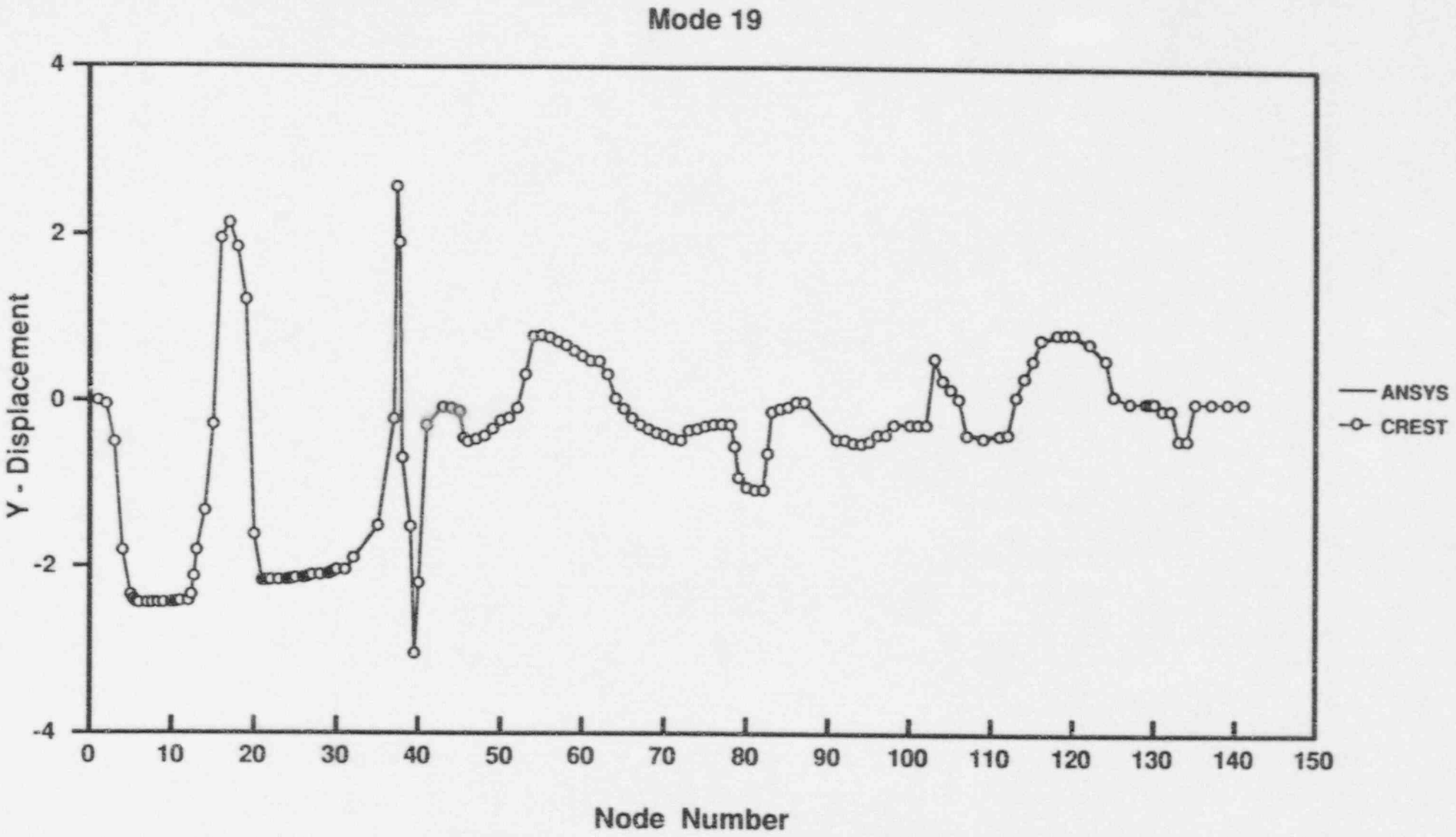

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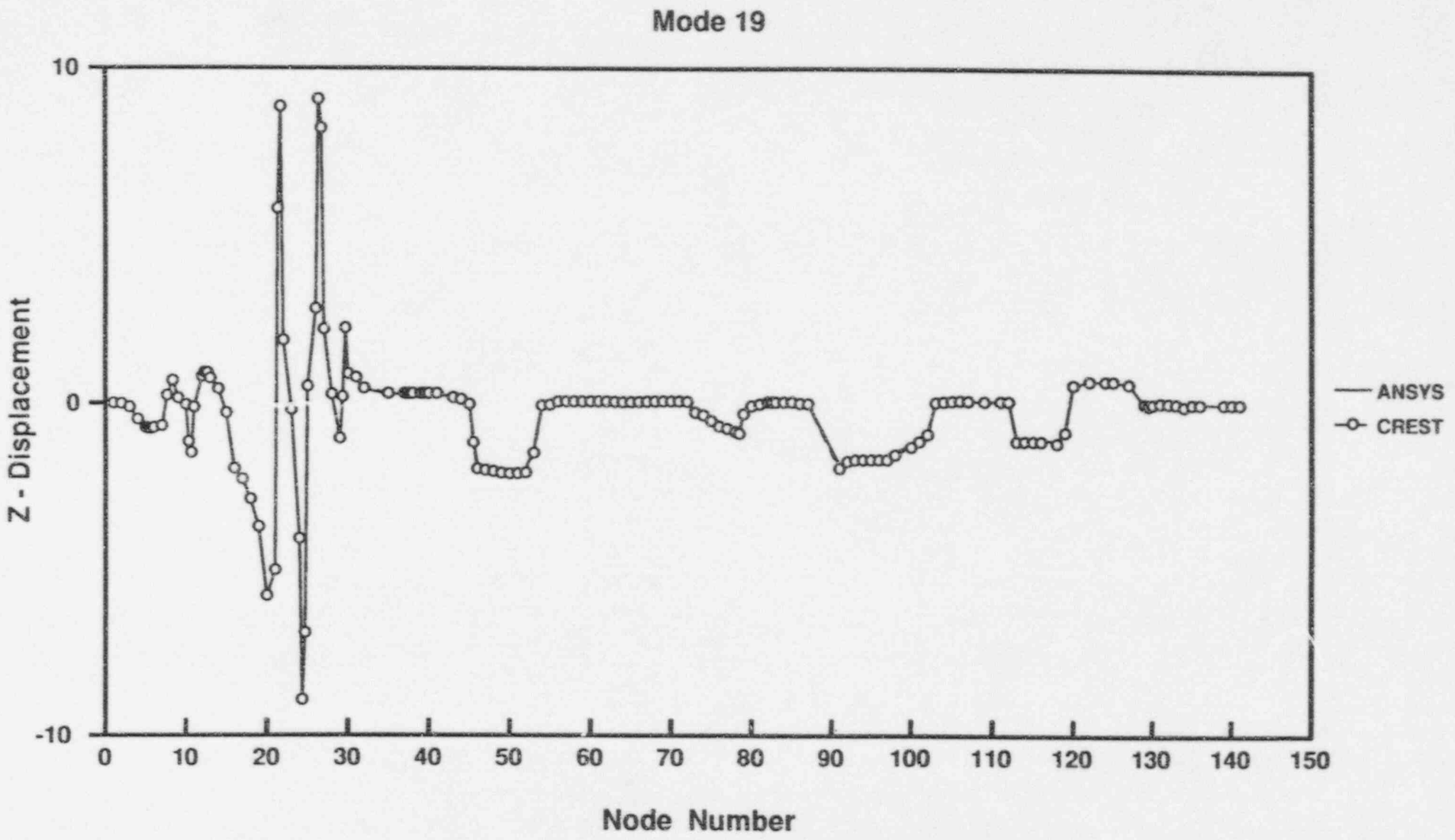
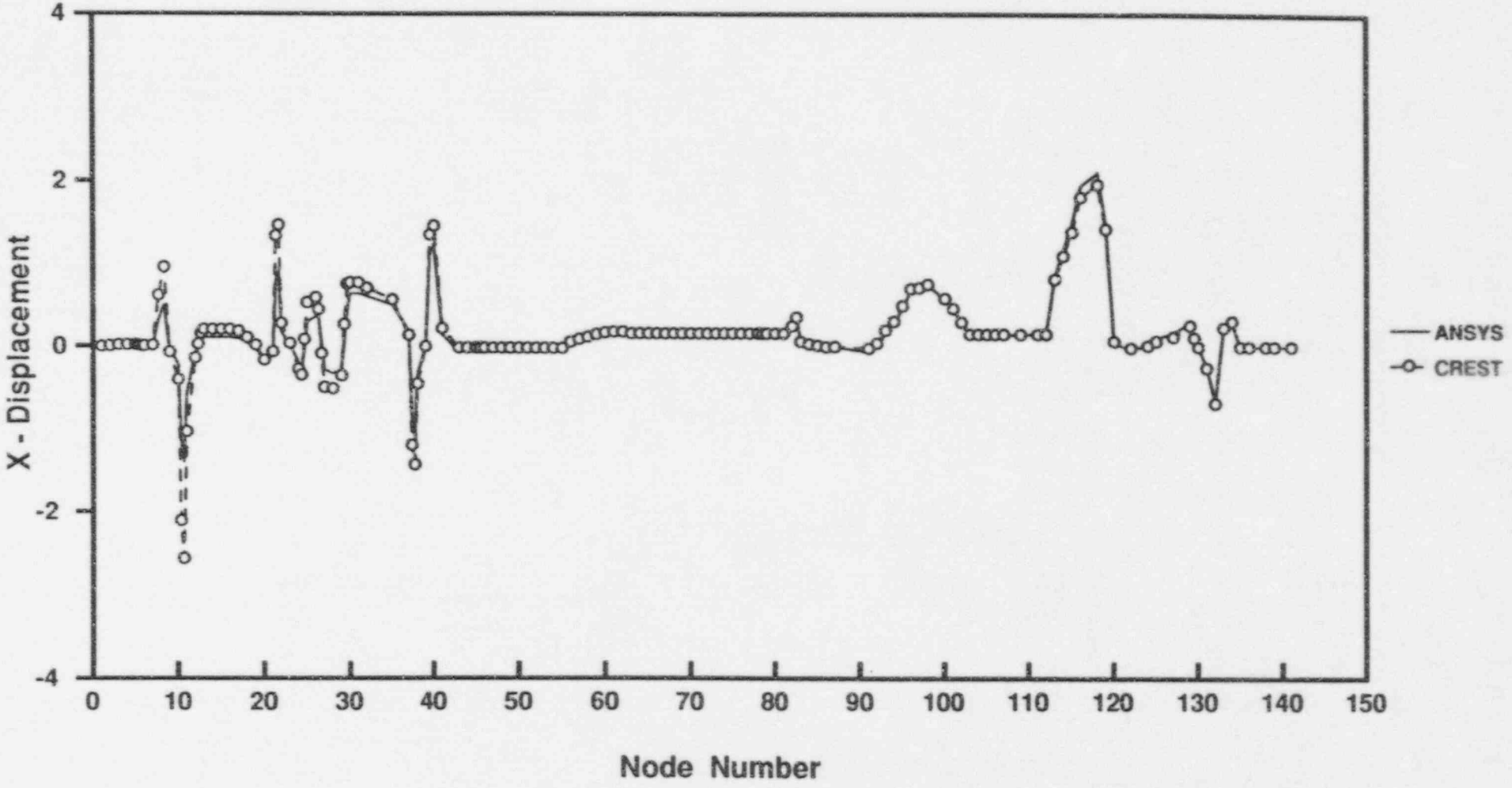
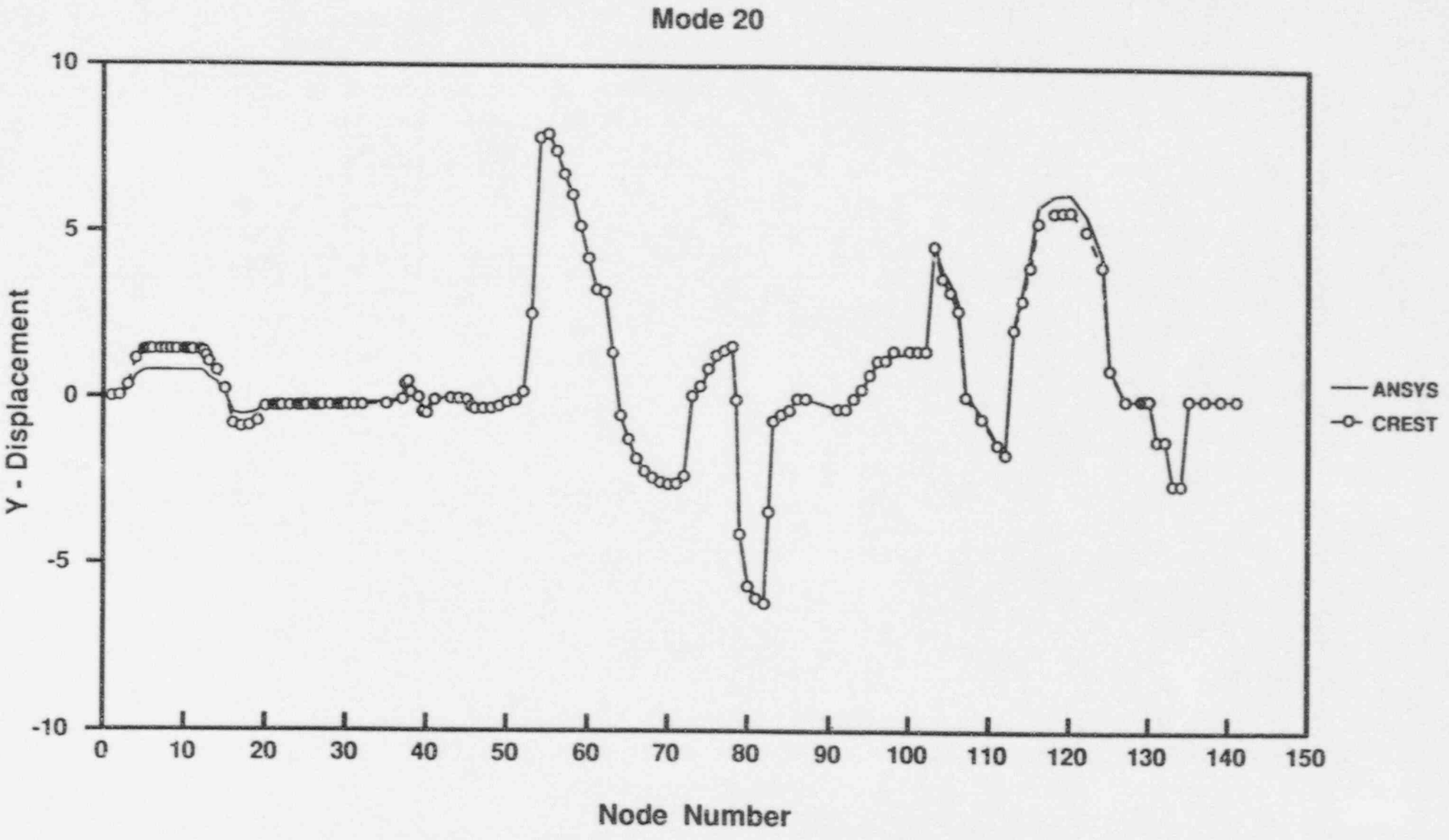


For relative locations of nodes please see the reference material

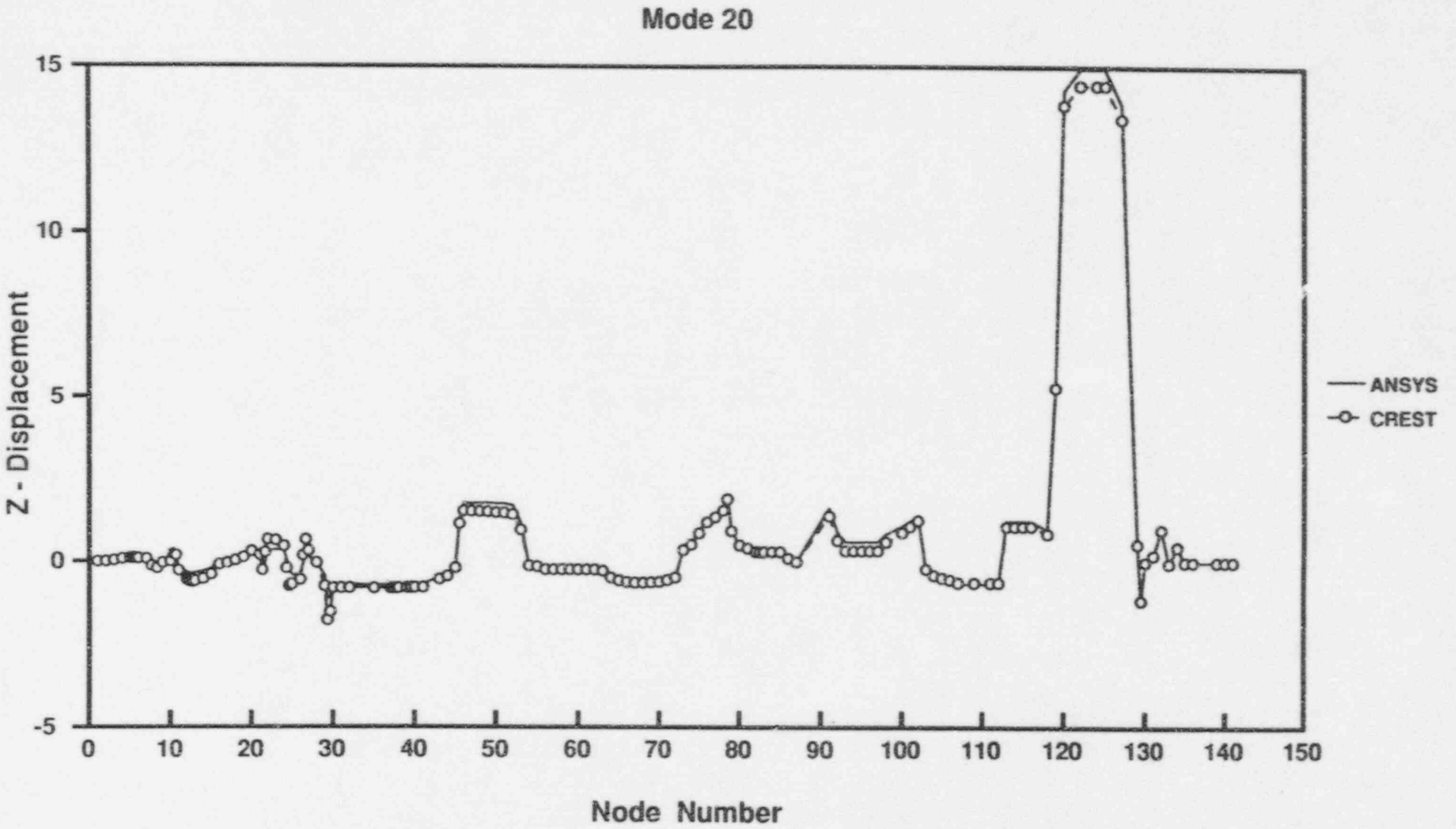
Mode 20



For relative locations of nodes please see the reference material

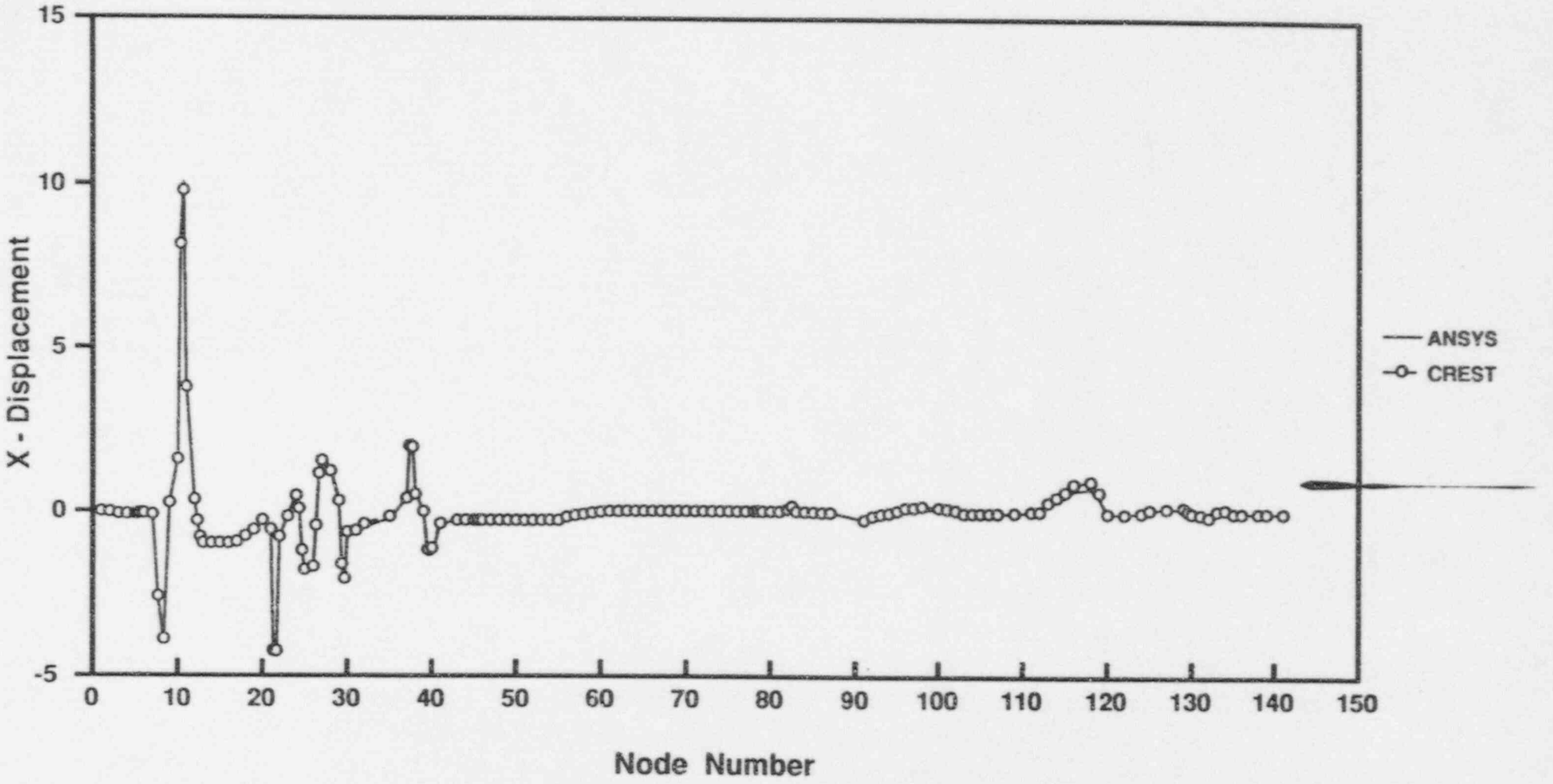


For relative locations of nodes please see the reference material



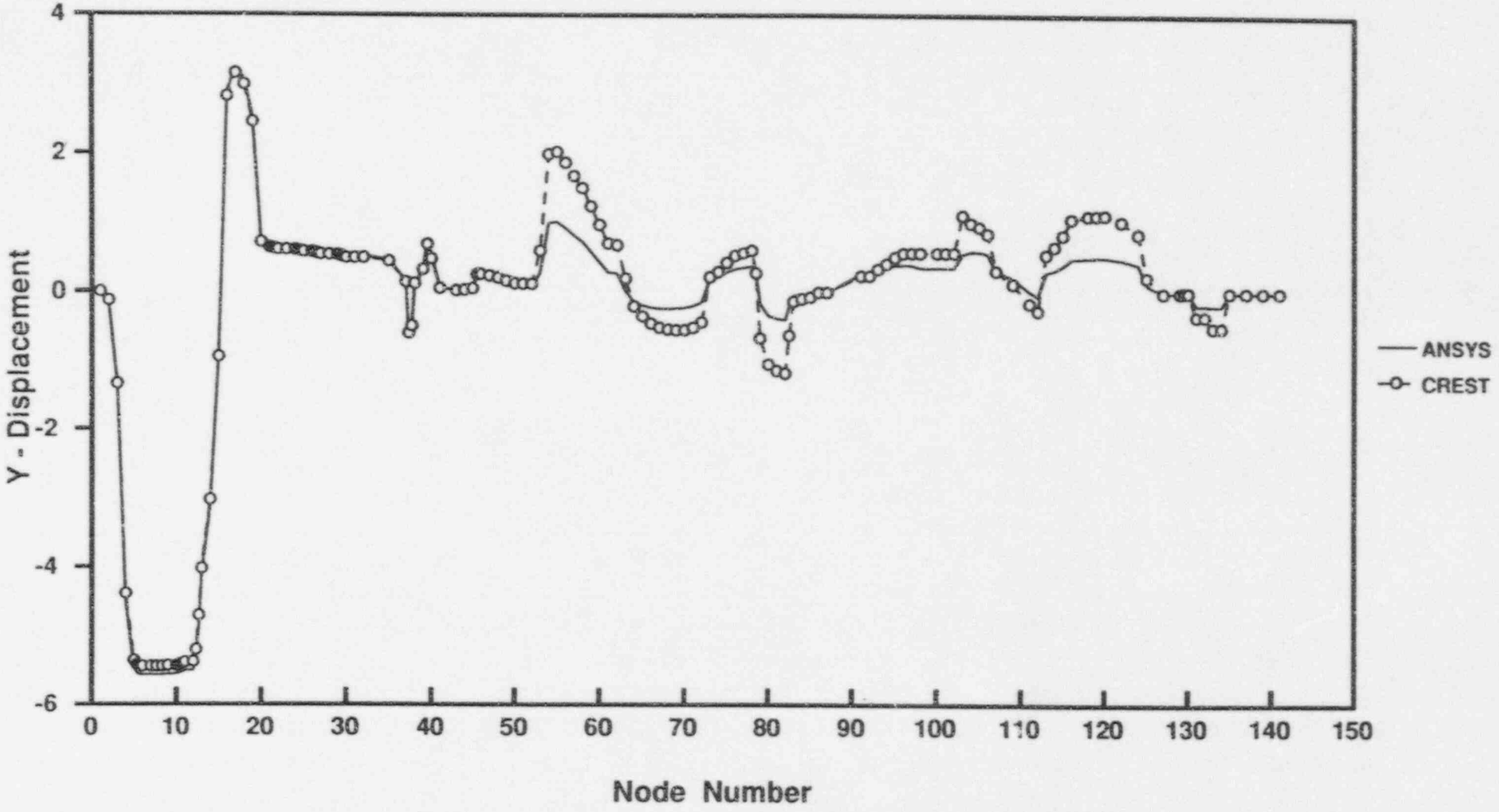
For relative locations of nodes please see the reference material

Mode 21

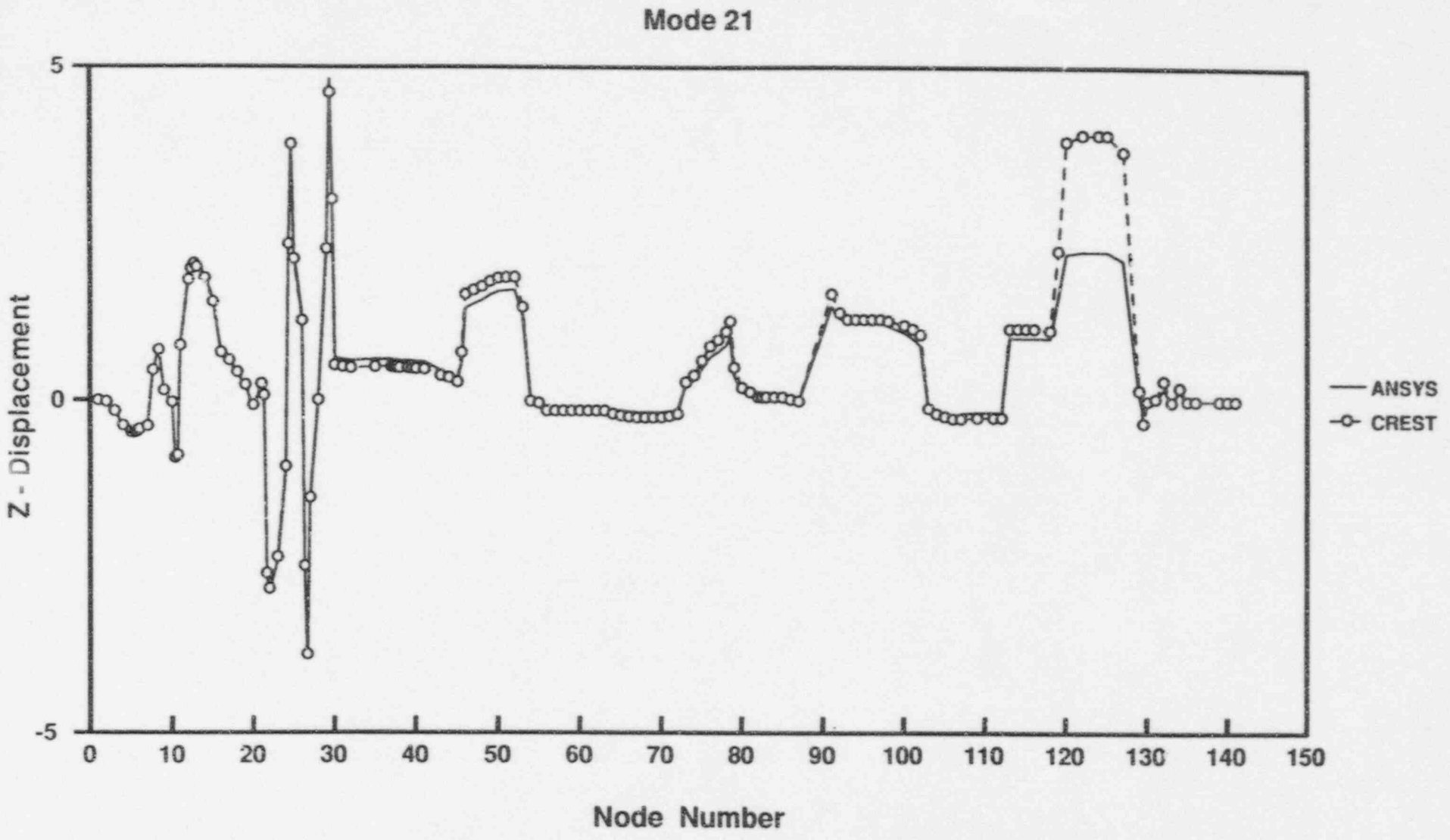


For relative locations of nodes please see the reference material

Mode 21

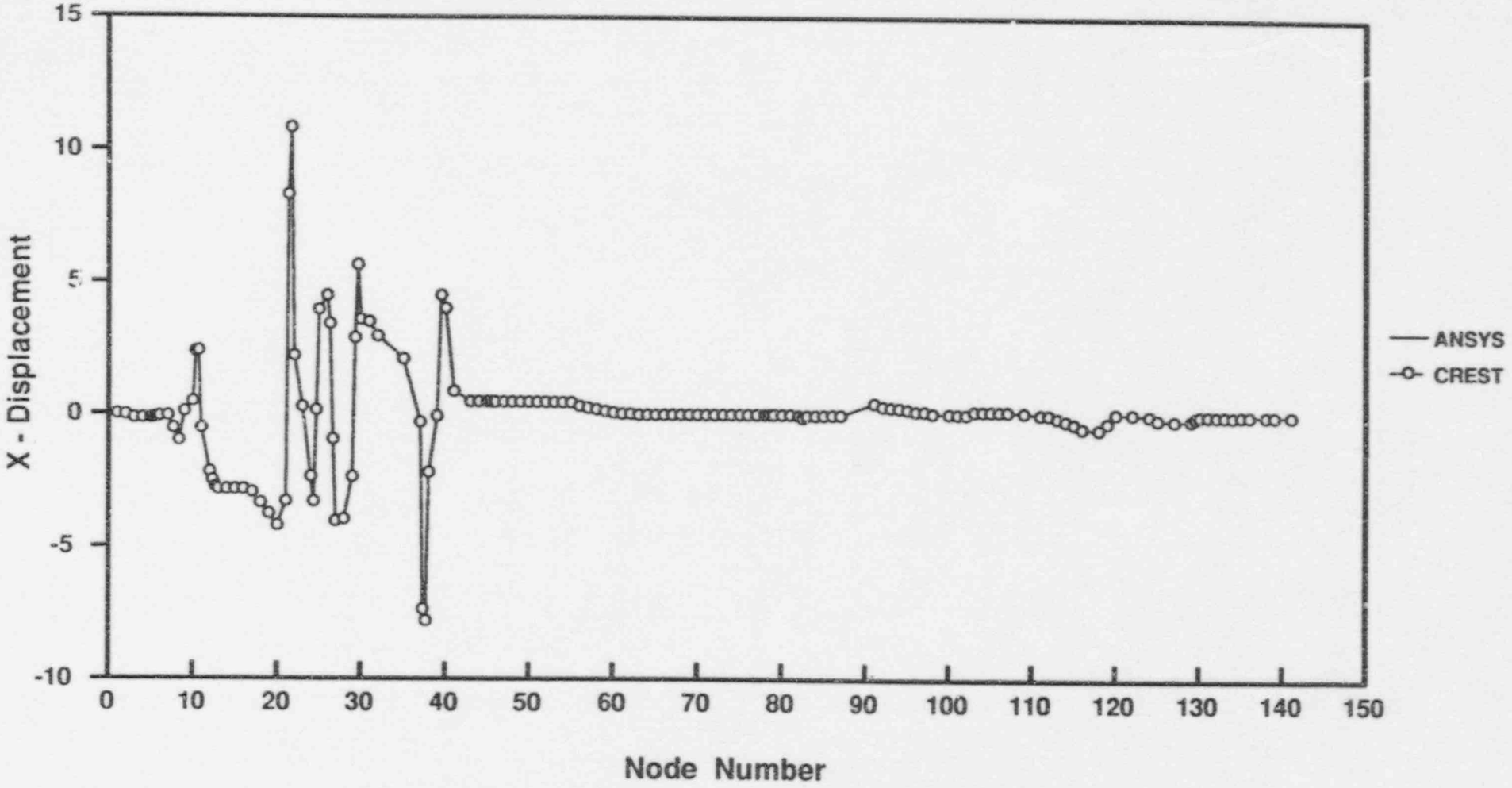


For relative locations of nodes please see the reference material

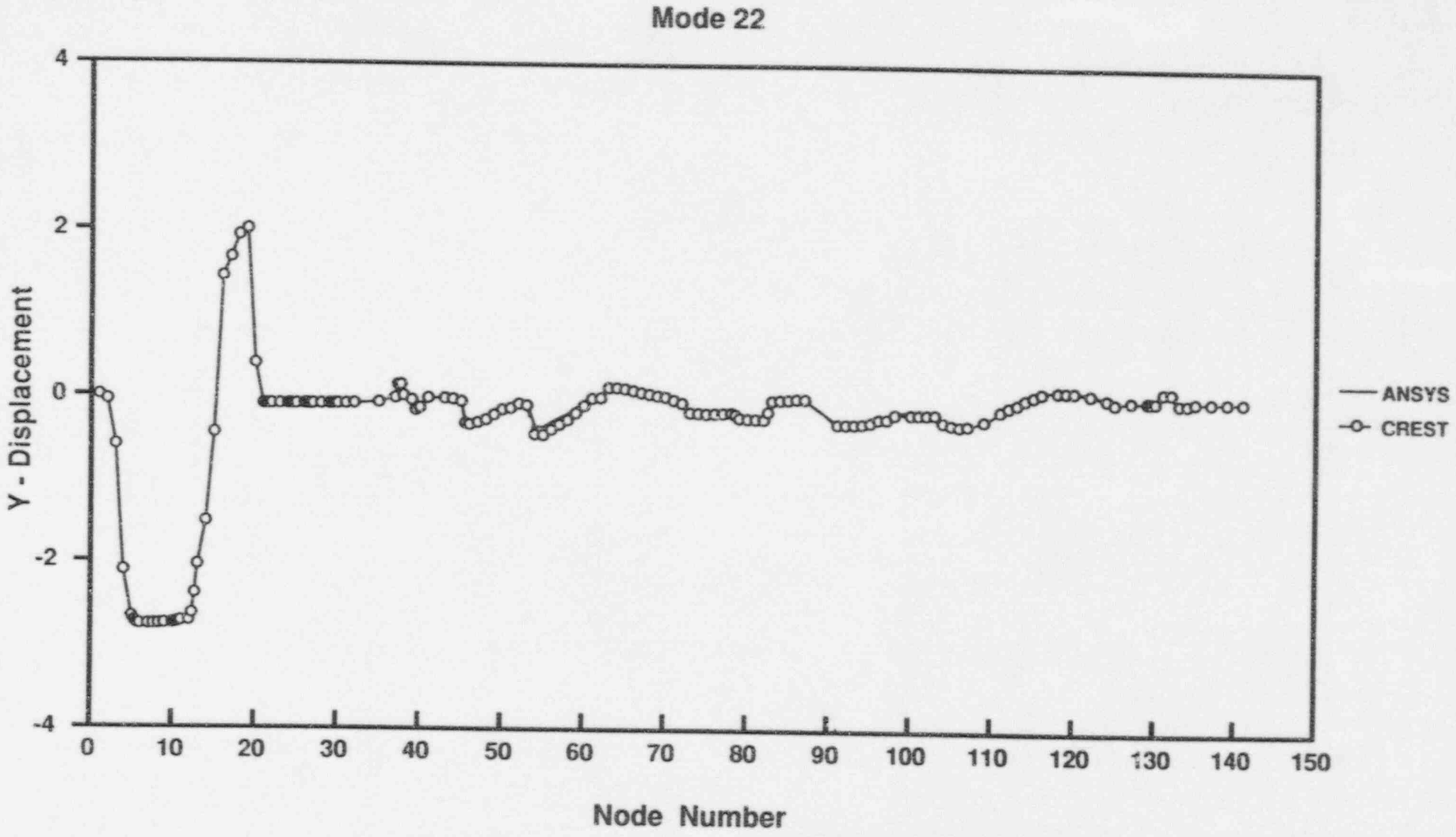


For relative locations of nodes please see the reference material

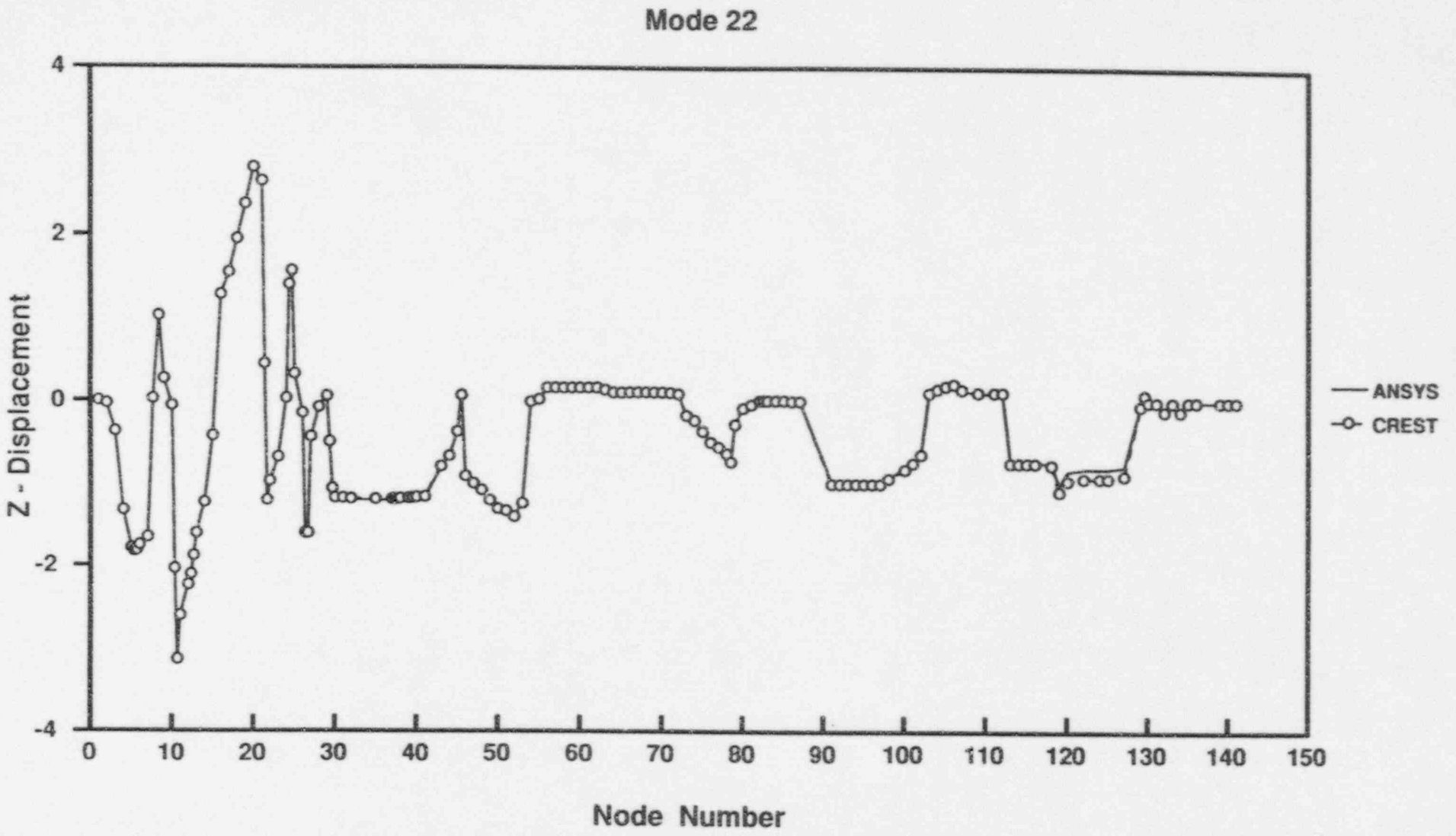
Mode 22



For relative locations of nodes please see the reference material



For relative locations of nodes please see the reference material



For relative locations of nodes please see the reference material

```
/batch,list
/filnam,cpmodal
/units,bft                          !weight: kips, Length: feet
/prep7
g=386.4/12
a=144/1000
b=(12**3)/1000
c=0.036126684*b/g
d=12/1000
r1=2.875/12
r3=0.84/12
r5=1.9/12
t1=0.375/12
t3=0.188/12
t5=0.281/12
rr11=1.667
rr1=0.3125
rr12=0.5
rr13=0.313
rr3=0.125
rr5=0.187
/title, Modal analysis of coupled system of pressurizer spray line & building
mp,ex,1,(28.3e6*a)                  ! for piping
mp,nuxy,1,0.3
mp,dens,1,(0.40695565*b/g)
mp,ex,2,(28.3e6*a)
mp,nuxy,2,0.3
mp,dens,2,(0.43867346*b/g)
mp,ex,3,(28.3e6*a)
mp,nuxy,3,0.3
mp,dens,3,(0.92858561*b/g)
mp,ex,4,(28.3e6*a)
mp,nuxy,4,0.3
mp,dens,4,(5.8515393*b/g)
mp,ex,5,(28.3e6*a)
mp,nuxy,5,0.3
mp,dens,5,(0.49939372*b/g)
mp,ex,6,(28.3e6*a)
mp,nuxy,6,0.3
mp,dens,6,(2.5829705*b/g)
et,1,pipe16,,,,,1
et,2,pipe16,,,,,2
et,3,combin14,,1                    !1D spring X' Direction
et,4,combin14,,2                    !1D spring Y' Direction
et,5,combin14,,3                    !1D spring Z' Direction
et,6,combin14,,4                    !1D spring  ROTX' Direction
et,7,combin14,,5                    !1D spring  ROTY' Direction
et,8,combin14,,6                    !1D spring  ROTZ' Direction
et,30,mass21,,,2
r,11,r1,t1,,,,c
r,211,r1,t1,rr11
rmore,c
r,21,r1,t1,rr1
rmore,c
r,212,r1,t1,rr12
rmore,c
r,213,r1,t1,rr13
rmore,c
r,13,r3,t3,,,,c
r,23,r3,t3,rr3
rmore,c
r,15,r5,t5,,,,c
r,25,r5,t5,rr5
rmore,c
r,51,(77000*d)
r,52,(56*d)
r,53,(212000*d)
r,54,(124*d)
r,55,(35*d)
r,56,(400*d)
r,57,(224*d)
r,58,(1.0e11*d)
r,59,8.31e8
r,31,(25.0/g/1000)
r,32,(4.0/g/1000)
r,33,(43.0/g/1000)
r,34,(40.0/g/1000)
r,35,(75.0/g/1000)
r,36,(5.0/g/1000)
r,37,(6.0/g/1000)
r,38,(105.0/g/1000)
r,39,(10.0/g/1000)
r,40,(12.0/g/1000)
r,41,(31.5/g/1000)
r,42,(230.0/g/1000)
f=1/(12**2)
i=1/(12**4)
et,71,beam4                         ! for building
mp,ex,71,(4.5e6*a)
mp,nuxy,71,0.3
mp,dens,71,0.0
r,71,(157000*f),(i*1.18e+10), (i*1.03e+10),
rmore,,,1.71,1.67
r,72,(243000*f),  (i*1.43e+10), (i*1.1e+10),
rmore,,,1.26,1.23
r,73,(162000*f),  (i*1.25e+10), (i*1.6e+10),
rmore,,,1.57,2.33
r,74,(132000*f),(i*1.15e+10), (i*1.48e+10),
rmore,,(i*2.64e10),1.59,2.26
r,75, (92660*f),(i*5.656e+09),(i*2.151e+09),
rmore,,,1.42,2.57
```



```
r,76, (98710*f),(i*7.172e+09),(i*2.603e+09),
rmore,,,1.51,2.88
et,72,mass21,,,2
r,77,(4474.0el/g/1000)
r,78,(4428.75e3/g/1000)
r,79,(2650.75e3/g/1000)
r,80,(3207.25e3/g/1000)
r,81,(2847.75e3/g/1000)
N,1,0.574,0                         ! for piping
N,2,0.396,574,-0.396
N,3,1.574,574,-0.884
N,4,3.79,574,-0.884
N,5,4.905,574,-0.884
N,9001,5.061,574.042,-0.884
N,9002,5.175,574.156,-0.884
N,6,5.217,574.312,-0.884
N,7,5.217,574.5,-0.884
N,9003,5.217,577.566,-0.884
N,9004,5.217,580.632,-0.884
N,9,5.217,583.698,-0.884
N,10,5.217,584.229,-0.884
N,9005,5.217,586.833,-0.884
N,9006,5.217,589.438,-0.884
N,11,5.217,592.042,-0.884
N,12,5.217,592.938,-0.884
N,9007,5.259,593.094,-0.834
N,9008,5.373,593.208,-0.884
N,13,5.53,593.25,-0.884
N,14,5.759,593.25,-0.884
N,15,6.259,593.25,-0.884
N,16,7.422,593.25,-0.884
N,17,7.643,593.25,-0.792
N,18,8.051,593.25,-0.384
N,19,8.629,593.25,0.194
N,20,10.158,593.25,1.723
N,21,10.378,593.562,1.944
N,9009,10.378,596.903,1.944
N,9010,10.378,600.243,1.944
N,22,10.378,603.583,1.944
N,23,10.378,604.291,1.944
N,24,10.378,605.655,1.944
N,9011,10.378,608.436,1.944
N,9012,10.378,611.218,1.944
N,25,10.378,613.999,1.944
N,26,10.378,614.791,1.944
N,9013,10.378,617.742,1.944
N,9014,10.378,620.693,1.944
N,27,10.378,623.645,1.944
N,28,10.378,624.749,1.944
N,29,10.378,626.415,1.944
N,9015,10.378,629.526,1.944
N,9016,10.378,632.638,1.944
N,30,10.378,635.749,1.944
N,31,10.378,635.832,1.944
N,32,10.378,636.053,2.035
N,35,10.378,636.144,2.256
N,37,10.378,636.144,2.959
N,9017,10.378,636.144,5.657
N,9018,10.378,636.144,8.355
N,38,10.378,636.144,11.053
N,39,10.378,636.144,11.918
N,9019,10.378,636.144,14.756
N,40,10.378,636.144,17.595
N,41,10.378,636.144,20.048
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N,44,10.812,636.144,20.36
N,45,11.129,636.144,20.36
N,9020,13.507,636.144,20.36
N,46,15.885,636.144,20.36
N,47,16.135,636.144,20.36
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N,49,16.801,636.144,20.36
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N,51,17.343,636.144,20.36
N,52,17.801,636.144,20.36
N,53,19.822,636.144,20.36
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N,55,22.864,636.144,20.36
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N,58,23.176,636.144,21.027
N,59,23.176,636.144,21.277
N,60,23.176,636.144,21.527
N,61,23.176,636.144,21.777
N,62,23.176,636.144,21.798
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N,9022,9.585,636.144,19.663
N,83,9.565,636.144,17.527
N,84,9.585,636.144,17.333
N,85,9.585,636.144,17.194
N,86,9.231,635.791,16.694
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N,102,16.135,636.394,22.111
N,77,16.135,636.144,22.111
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N,103,22.866,636.144,21.277
N,104,22.092,636.144,21.277
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N,106,21.592,636.144,21.277
N,107,20.634,636.144,21.277
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N,111,20.509,636.144,21.683
N,112,20.509,636.144,21.801
N,68,20.509,636.144,22.111
N,101,16.135,636.707,22.111
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N,116,16.135,636.707,23.84
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N,9023,16.135,639.274,24.027
N,120,16.135,641.654,24.027
N,122,16.135,641.841,24.214
N,124,16.135,641.841,24.567
N,125,16.135,641.841,25.411
N,127,16.135,641.654,25.598
N,129,16.135,639.508,25.598
N,9024,16.135,637.966,25.598
N,130,16.135,636.47?,25.598
N,65,21.53,636.144,??.11
N,131,21.53,636.415,22.11
N,132,21.53,636.686,22.11
N,71,19.654,636.144,22.11
N,133,19.654,636.415,22.11
N,134,19.654,636.686,22.11
!add anuber and spring supports
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N,1010,5.217,584.329,-0.884
N,1014,5.759,593.25,-0.884
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N,1023,10.379,604.291,1.944
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e,3,4
e,4,5
type,2
real,21
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e,9001,9002,4
e,9002,6,4
type,1
real,11
e,6,7
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e,9,10
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e,9006,11
e,11,12
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e,9008,13,11
type,1
real,11
e,13,14
e,14,15
e,15,16
type,2
real,21
e,16,17,15
type,1
real,11
e,17,18
e,18,19
e,19,20
type,2
real,21
e,20,21,19
type,1
real,11
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e,   22 ,   23
e,   23 ,   24
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e, 9011 , 9012
e, 9012 ,   25
e,   25 ,   26
e,   26 , 9013
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e, 9014 ,   27
e,   27 ,   28
e,   28 ,   29
e,   29 , 9015
e, 9015 , 9016
e, 9016 ,   30
e,   30 ,   31
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real,21
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e,32,35,30
type,1
real,11
e,35,37
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e, 9017 , 9018
e, 9018 ,   38
e,   38 ,   39
e,   39 , 9019
e, 9019 ,   40
e,   40 ,   41
type,2
real,21
e,41,43,40
type,1
real,11
e,43,44
e,   44 ,   45
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e,   47 ,   48
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e,49,50
type,1
real,11
mat,1
e,50,51
e,   51 ,   52
e,   52 ,   53
e,   53 ,   54
e,   54 ,   55
type,2
real,21
e,55,56,54
type,1
real,11
e,56,57
e,   57 ,   58
e,   58 ,   59
e,   59 ,   60
e,   60 ,   61
e,   61 ,   62
type,2
real,21
e,62,63,61
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type,2
real,11
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real,11
mat,1
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e,67,68
e,68,69
e,69,70
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real,11
mat,2
e,70,71
e,71,72
type,1
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e,73,74
mat,2
e,74,75
e,75,76
mat,1
e,76,77
e,    77 ,   78
e,    78 , 9021
e,  9021 ,   79
e,    79 ,   80
e,    80 ,   81
type,2
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type,1
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e,  9022 ,   83
e,    83 ,   84
e,    84 ,   85
type,2
real,212
e,85,86,84
type,1
real,11
e,86,87
e,87,91
e,91,92
type,2
real,213
e,92,93,91
type,1
real,11
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e,95,96
mat,1
e,96,97
type,2
real,21
e,97,98,96
type,1
real,11
e,98,100
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e,   101 ,   102
e,102,77
type,1
mat,3
real,13
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e,103,104
mat,4
e,104,105
e,105,106
mat,3
e,106,107
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mat,3
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e,111,112
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e,101,113
mat,6
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e,114,115
mat,5
e,115,116
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type,1
mat,5
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type,2
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mat,5
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e,124,125
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type,1
mat,5
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e,9024,130
mat,1
type,1
real,11
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e,131,132
e,71,133
e,133,134
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type,3
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type,4
e,1,1001
type,5
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real,59
type,6
e,1,1001
type,7
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type,8
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type,3
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type,5
e,10,1010
type,4
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type,4
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type,3
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type,4
e,53,1053
real,55
e,79,1079
real,51
type,3
e,124,1124
type,5
e,129,1129
type,4
e,52,1052
type,5
e,54,1054
type,3
e,57,1057
real,56
type,4
e,78,1078
type,5
real,51
e,73,1073
real,57
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e,61,1061
real,51
type,3
e,131,1131
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type,5
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real,56
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type,4
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type,5
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real,59
type,6
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type,7
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type,8
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real,58
type,3
e,130,1130
type,4
e,130,1130
type,5
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real,59
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type,7
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type,8
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type,30
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e,45
e,52
e,54
e,57
e,73
e,114
e,124
e,129
real,32
e,14
e,79
real,33
e,37
real,34
e,39
real,35
e,49
e,75
e,95
real,36
e,53
real,37
e,61
real,38
e,65
e,71
real,39
e,78
real,40
e,105
real,41
e,131
e,133
real,42
e,132
e,134
n, 301 ,0,         565 ,0,                    !for building
n, 302 ,0,         568 ,0,
n, 303 ,0,         571 ,0,
n, 304 ,0,         574 ,0,
n, 305 ,0, 577.83333 ,0,
n, 306 ,0,         590 ,0,
n, 307 ,0,       585.5 ,0,
n, 308 ,0,         604 ,0,
n, 309 ,0,       609.5 ,0,
n, 310 ,0,       624.5 ,0,
n, 311 ,0, 629.58333 ,0,
n, 312 ,0, 638.33333 ,0,
n, 313 ,0,         647 ,0,
type,71
mat,71
real,71
e,301,302
e,302,303
e,303,304
real,72
e,304,305
real,73
e,305,306
real,74
e,306,307
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e,307,308
real,75
e,308,309
e,309,310
real,76
e,310,311
e,311,312
e,312,313
type,72
real,77
e,304
real,78
e,306
real,79
e,308
real,80
e,310
real,81
e,313
cp,1,ux,304,1001
cp,2,ux,309,1087
cp,3,ux,312,1037,1039,1044,1045,1053,1079
cp,3,ux,312,1124,1125,1052,1054,1057,1078
cp,3,ux,312,1073,1061,1131,1133,1130
cp,4,ux,306,1009,1010
cp,5,ux,307,1015,1014
cp,6,ux,308,1023
cp,7,ux,310,1028
cplgen,1,uy,uz,rotx,roty,rotz
cplgen,2,uy,uz,rotx,roty,rotz
cplgen,3,uy,uz,rotx,roty,rotz
cplgen,4,uy,uz,rotx,roty,rotz
cplgen,5,uy,uz,rotx,roty,rotz
cplgen,6,uy,uz,rotx,roty,rotz
cplgen,7,uy,uz,rotx,roty,rotz
d,301,all
lumpm,on
save
finish

/solu
antype,modal
modopt,,33,,,33
m,1,ux,134,,uy,uz
m,9001,ux,9024,,uy,uz
m,304,ux,310,2,uy,uz
m,313,ux,,,uy,uz
outpr,nsol,all
save
solve
finish
```

```
*------------------------------------------------------------------*
|                                                                  |
|        W E L C O M E   T O   T H E   A N S Y S   P R O G R A M    |
|                                                                  |
*------------------------------------------------------------------*


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 NONE
*** WARNING ***
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 WORK SPACE REQUESTED              =    8388608      32.000  MB  DEFAULT
 MINIMUM WORK SPACE REQUIRED       =    2613736       9.971  MB
 MINIMUM WORK SPACE RECOMMENDED    =    4587640      17.539  MB
 WORK SPACE OBTAINED               =    8388606      32.000  MB
 BYTES PER WORD                    =          4


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ENTER  /SHOW,device TO SET THE GRAPHICS DISPLAY TO device(e.g. X11,4207,ETC.)
ENTER  /MENU,ON     TO START THE ANSYS MENU SYSTEM
ENTER  HELP         FOR GENERAL ANSYS HELP INFORMATION

40416-2          VERSION=SUN4SPARC      REVISION= 5.0
FOR SUPPORT CALL                 PHONE                    FAX
CURRENT JOBNAME=file      15:51:45  OCT 11, 1995 CP=      0.940


BEGIN:
     1  /filnam,cpmodal
     2  /units,bft                      !weight: kips, Length: feet
     3  /prep7
     4  g=386.4/12
     5  a=144/1000
     6  b=(12**3)/1000
     7  c=0.035126684*b/g
     8  d=12/1000
     9  r1=2.875/12
    10  r3=0.84/12
    11  r5=1.9/12
    12  t1=0.375/12
    13  t3=0.188/12
    14  t5=0.281/12
    15  rr11=1.667
    16  rr1=0.3125
    17  rr12=0.5
    18  rr13=0.313
    19  rr3=0.125
    20  rr5=0.187
    21  /title, Modal analysis of coupled system of presurizer spray line & building
    22  mp,ex,1,(28.3e6*a)                  ! for piping
    23  mp,nuxy,1,0.3
    24  mp,dens,1,(0.40695565*b/g)
    25  mp,ex,2,(28.3e6*a)
    26  mp,nuxy,2,0.3
    27  mp,dens,2,(0.43867346*b/g)
    28  mp,ex,3,(28.3e6*a)
    29  mp,nuxy,3,0.3
    30  mp,dens,3,(0.92858561*b/g)
    31  mp,ex,4,(28.3e6*a)
    32  mp,nuxy,4,0.3
    33  mp,dens,4,(5.8515393*b/g)
    34  mp,ex,5,(28.3e6*a)
    35  mp,nuxy,5,0.3
    36  mp,dens,5,(0.49939372*b/g)
    37  mp,ex,6,(28.3e6*a)
    38  mp,nuxy,6,0.3
    39  mp,dens,6,(2.5829705*b/g)
    40  et,1,pipe16,,,,,1
    41  et,2,pipe18,,,,,2
    42  et,3,combin14,,1                !1D spring X' Direction
```



```
    43  et,4,combin14,,2                !1D spring Y' Direction
    44  et,5,combin14,,3                !1D spring Z' Direction
    45  et,6,combin14,,4                !1D spring  ROTX' Direction
    46  et,7,combin14,,5                !1D spring  ROTY' Direction
    47  et,8,combin14,,6                !1D spring  ROTZ' Direction
    48  et,30,mass21,,,2
    49  r,11,r1,t1,,,,c
    50  r,211,r1,t1,rr11
    51  rmore,c
    52  r,21,r1,t3,rr1
    53  rmore,c
    54  r,212,r1,t1,rr12
    55  rmore,c
    56  r,213,r1,t1,rr13
    57  rmore,c
    58  r,13,r3,t3,,,,c
    59  r,23,r3,t3,rr3
    60  rmore,c
    61  r,15,r5,t5,,,,c
    62  r,25,r5,t5,rr5
    63  rmore,c
    64  r,51,(77000*d)
    65  r,52,(55*d)
    66  r,53,(212000*d)
    67  r,54,(126*d)
    68  r,55,(35*d)
    69  r,56,(400*d)
    70  r,57,(224*d)
    71  r,58,(1.0e21*d)
    72  r,59,8.33e8
    73  r,31,(25.0/g/1000)
    74  r,32,(4.0/g/1000)
    75  r,33,(43.0/g/1000)
    76  r,34,(40.0/g/1000)
    77  r,35,(75.0/g/1000)
    78  r,36,(5.0/g/1000)
    79  r,37,(6.0/g/1000)
    80  r,38,(105.0/g/1000)
    81  r,39,(10.0/g/1000)
    82  r,40,(12.0/g/1000)
    83  r,41,(51.5/g/1000)
    84  r,42,(290.0/g/1000)
    85  f=1/(12*12)
    86  i=1/(12**4)
    87  et,71,beam4                         ! for building
    88  mp,ex,71,(4.5e6*a)
    89  mp,nuxy,71,0.3
    90  mp,dens,71,0.0
    91  r,71,(157000*f),(i*1.18e+10), (i*1.03e+10),
    92  rmore,,,1.71,1.67
    93  r,72,(243000*f),  (i*1.43e+10), (i*1.1e+10),
    94  rmore,,,1.26,1.23
    95  r,73,(162000*f),  (i*1.25e+10), (i*1.6e+10),
    96  rmore,,,1.57,2.33
    97  r,74,(132000*f),(i*1.15e+10), (i*1.48e+10),
    98  rmore,,(i*2.64e10),1.59,2.26
    99  r,75,  (92660*f),(i*5.656e+09),(i*2.151e+09),
   100  rmore,,,1.42,2.57
   101  r,76,  (98710*f),(i*7.372e+09),(i*2.603e+09),
   102  rmore,,,1.51,2.88
   103  et,72,mass21,,,2
   104  r,77,(4474.0e3/g/1000)
   105  r,78,(4428.75e3/g/1000)
   106  r,79,(2650.75e3/g/1000)
   107  r,80,(3207.25e3/g/1000)
   108  r,81,(2847.75e3/g/1000)
   109  N,1,0,574,0                         ! for piping
   110  N,2,0.396,574,-0.396
   111  N,3,1.574,574,-0.884
   112  N,4,3.79,574,-0.884
   113  N,5,4.905,574,-0.884
   114  N,9001,5.061,574.042,-0.884
   115  N,9002,5.175,574.156,-0.884
   116  N,6,5.217,574.312,-0.884
   117  N,7,5.217,574.5,-0.884
   118  N,9003,5.217,577.566,-0.884
   119  N,9004,5.217,580.612,-0.884
   120  N,9,5.217,583.698,-0.884
   121  N,10,5.217,584.229,-0.884
   122  N,9005,5.217,586.833,-0.884
   123  N,9006,5.217,589.438,-0.884
   124  N,11,5.217,592.042,-0.884
   125  N,12,5.217,592.938,-0.884
   126  N,9007,5.259,593.094,-0.884
   127  N,9008,5.373,593.208,-0.884
   128  N,13,5.53,593.25,-0.884
   129  N,14,5.759,593.25,-0.884
   130  N,15,6.259,593.25,-0.884
   131  N,16,7.422,593.25,-0.884
   132  N,17,7.643,593.25,-0.792
   133  N,18,8.051,593.25,-0.384
   134  N,19,8.629,593.25,0.194
   135  N,20,10.158,593.25,1.723
   136  N,21,10.379,593.562,1.944
   137  N,9009,10.379,596.903,1.944
   138  N,9010,10.379,600.243,1.944
   139  N,22,10.379,603.583,1.944
   140  N,23,10.379,604.291,1.944
   141  N,24,10.379,605.655,1.944
   142  N,9011,10.379,608.436,1.944
   143  N,9012,10.379,611.218,1.944
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144  N,25,10.379,613.999,1.944
145  N,26,10.379,614.791,1.944
146  N,9013,10.379,617.742,1.944
147  N,9014,10.379,620.693,1.944
148  N,27,10.379,623.645,1.944
149  N,28,10.379,624.749,1.944
150  N,29,10.379,626.415,1.944
151  N,9015,10.379,629.526,1.944
152  N,9016,10.379,632.636,1.944
153  N,30,10.379,635.749,1.944
154  N,31,10.379,635.832,1.944
155  N,32,10.379,636.053,2.035
156  N,35,10.379,636.144,2.256
157  N,37,10.379,636.144,2.959
158  N,9017,10.379,636.144,5.657
159  N,9018,10.379,636.144,8.355
160  N,38,10.379,636.144,11.053
161  N,39,10.379,636.144,11.918
162  N,9019,10.379,636.144,14.756
163  N,40,10.379,636.144,17.595
164  N,41,10.379,636.144,20.018
165  N,43,10.692,636.144,20.36
166  N,44,10.812,636.144,20.36
167  N,45,11.129,636.144,20.36
168  N,9020,13.507,636.144,20.36
169  N,46,15.885,636.144,20.36
170  N,47,16.135,636.144,20.36
171  N,48,16.385,636.144,20.36
172  N,49,16.801,636.144,20.36
173  N,50,17.218,636.144,20.36
174  N,51,17.343,636.144,20.36
175  N,52,17.801,636.144,20.36
176  N,53,19.822,636.144,20.36
177  N,54,22.801,636.144,20.36
178  N,55,22.864,636.144,20.36
179  N,56,23.176,636.144,20.673
180  N,57,23.176,636.144,20.86
181  N,58,23.176,636.144,21.027
182  N,59,23.176,636.144,21.277
183  N,60,23.176,636.144,21.527
184  N,61,23.176,636.144,21.777
185  N,62,23.176,636.144,21.798
186  N,63,22.864,636.144,22.11
187  N,64,21.947,636.144,22.11
188  N,65,21.53,636.144,22.11
189  N,66,21.113,636.144,22.11
190  N,67,20.759,636.144,22.11
191  N,68,20.509,636.144,22.11
192  N,69,20.259,636.144,22.11
193  N,70,20.071,636.144,22.11
194  N,71,19.654,636.144,22.11
195  N,72,19.237,636.144,22.11
196  N,73,17.383,636.144,22.11
197  N,74,17.175,636.144,22.11
198  N,75,16.758,636.144,22.11
199  N,76,16.341,636.144,22.11
200  N,77,16.133,636.144,22.11
201  N,78,15.799,636.144,22.11
202  N,9021,13.413,636.144,22.11
203  N,79,11.028,636.144,22.11
204  N,80,10.121,636.144,22.11
205  N,81,9.897,636.144,22.11
206  N,82,9.585,636.144,21.798
207  N,9022,9.585,636.144,19.663
208  N,83,9.585,636.144,17.527
209  N,84,9.585,636.144,17.333
210  N,85,9.585,636.144,17.194
211  N,86,9.231,635.791,16.694
212  N,87,8.76,635.319,16.694
213  N,47,16.135,636.144,20.36
214  N,91,16.135,636.394,20.36
215  N,92,16.135,637.332,20.36
216  N,93,16.135,637.644,20.673
217  N,94,16.135,637.644,20.944
218  N,95,16.135,637.644,21.361
219  N,96,16.135,637.644,21.778
220  N,97,16.135,637.644,21.799
221  N,98,16.135,637.332,22.111
222  N,100,16.135,636.957,22.111
223  N,101,16.135,636.707,22.111
224  N,102,16.135,636.394,22.111
225  N,77,16.135,636.144,22.111
226  N,59,23.176,636.144,21.277
227  N,103,22.866,636.144,21.277
228  N,104,22.092,636.144,21.277
229  N,105,21.842,636.144,21.277
230  N,106,21.592,636.144,21.277
231  N,107,20.634,636.144,21.277
232  N,109,20.509,636.144,21.402
233  N,111,20.509,636.144,21.683
234  N,112,20.509,636.144,21.801
235  N,68,20.509,636.144,22.111
236  N,101,16.135,636.707,22.111
237  N,113,16.135,636.707,22.611
238  N,114,16.135,636.707,22.965
239  N,115,16.135,636.707,23.319
240  N,116,16.135,636.707,23.84
241  N,118,16.135,636.894,24.027
242  N,9023,16.135,639.274,24.027
243  N,120,16.135,641.654,24.027
244  N,122,16.135,641.841,24.214
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245  N,124,16.135,641.841,24.567
246  N,125,16.135,641.841,25.411
247  N,127,16.135,641.654,25.598
248  N,129,16.135,639.508,25.598
249  N,9024,16.135,637.966,25.598
250  N,130,16.135,636.425,25.598
251  N,65,21.53,636.144,22.11
252  N,131,21.53,636.415,22.11
253  N,132,21.53,636.686,22.11
254  N,71,19.654,636.144,22.11
255  N,133,19.654,636.415,22.11
256  N,134,19.654,636.686,22.11
257  !add another and spring supports
258  N,1001,0,574,0
259  N,1009,5.217,585.698,-0.884
260  N,1010,5.217,584.229,-0.884
261  N,1014,5.759,593.25,-0.884
262  N,1015,6.259,593.25,-0.884
263  N,1023,10.379,604.291,1.944
264  N,1028,10.379,624.749,1.944
265  N,1029,10.379,626.415,1.944
266  N,1037,10.379,636.144,2.959
267  N,1039,10.379,636.144,11.918
268  N,1044,10.812,636.144,20.36
269  N,1045,11.129,636.144,20.36
270  N,1052,17.801,636.144,20.36
271  N,1053,19.822,636.144,20.36
272  N,1054,22.801,636.144,20.36
273  N,1057,23.176,636.144,20.86
274  N,1061,23.176,636.144,21.777
275  N,1073,17.383,636.144,22.11
276  N,1078,15.799,636.144,22.11
277  N,1079,11.028,636.144,22.11
278  N,1087,8.76,635.319,16.694
279  N,1124,16.135,641.841,24.567
280  N,1129,16.135,639.508,25.598
281  N,1130,16.135,636.425,25.598
282  N,1131,21.53,636.415,22.11
283  N,1133,19.654,636.415,22.11
284  type,1
285  real,11
286  mat,1
287  e,1,3
288  type,2
289  real,211
290  e,2,9,1
291  type,1
292  real,11
293  e,3,4
294  e,4,5
295  type,2
296  real,21
297  e,5,9001,4
298  e,9001,9002,4
299  e,9002,6,4
300  type,1
301  real,11
302  e,6,7
303  e,7,9003
304  e,9003,9004
305  e,9004,9
306  e,9,10
307  e,10,9005
308  e,9005,9006
309  e,9006,11
310  e,11,12
311  type,2
312  real,21
313  e,12,9007,13
314  e,9007,9008,11
315  e,9008,13,11
316  type,1
317  real,11
318  e,13,14
319  e,14,15
320  e,15,16
321  type,2
322  real,21
323  e,16,17,15
324  type,1
325  real,11
326  e,17,18
327  e,18,19
328  e,19,20
329  type,2
330  real,21
331  e,20,21,19
332  type,1
333  real,11
334  e,21,9009
335  e, 9009 , 9010
336  e, 9010 ,  22
337  e,  22 ,  23
338  e,  23 ,  24
339  e,  24 , 9011
340  e, 9011 , 9012
341  e, 9012 ,  25
342  e,  25 ,  26
343  e,  26 , 9013
344  e, 9013 , 9014
345  e, 9014 ,  27
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e,   27 ,   28
e,   28 ,   29
e,   29 , 9015
e, 9015 , 9016
e, 9016 ,   30
e,   30 ,   31
type,2
real,21
e,31,32,30
e,32,38,30
type,1
real,11
e,35,37
e,   37 , 9017
e, 9017 , 9018
e, 9018 ,   38
e,   38 ,   39
e,   39 , 9019
e, 9019 ,   40
e,   40 ,   41
type,2
real,21
e,41,43,40
type,1
real,11
e,43,44
e,   44 ,   45
e,   45 , 9020
e, 9020 ,   46
e,   46 ,   47
e,   47 ,   48
type,1
real,11
mat,2
e,48,49
e,49,50
type,1
real,11
mat,1
e,50,51
e,   51 ,   52
e,   52 ,   53
e,   53 ,   54
e,   54 ,   55
type,2
real,21
e,55,56,54
type,1
real,11
e,56,57
e,   57 ,   58
e,   58 ,   59
e,   59 ,   60
e,   60 ,   61
e,   61 ,   62
type,2
real,21
e,62,63,61
type,1
real,11
e,63,64
type,1
real,11
mat,2
e,64,65
e,65,66
type,1
real,11
mat,1
e,66,67
e,67,68
e,68,69
e,69,70
type,1
real,11
mat,2
e,70,71
e,71,72
type,1
real,11
mat,1
e,72,73
e,73,74
mat,2
e,74,75
e,75,76
mat,1
e,76,77
e,   77 ,   78
e,   78 , 9021
e, 9021 ,   79
e,   79 ,   80
e,   80 ,   81
type,2
real,21
e,81,82,80
type,1
real,11
e,82,9022
e, 9022 ,   83
e,   83 ,   84
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e,   84 ,   85
type,2
real,212
e,85,86,84
type,1
real,11
e,86,87
e,47,91
e,91,92
type,2
real,213
e,92,93,91
type,1
real,11
e,93,94
mat,2
e,94,95
e,95,96
mat,1
e,96,97
type,2
real,21
e,97,98,96
type,1
real,11
e,98,100
e,   100 ,   101
e,   101 ,   102
e,102,77
type,1
mat,3
real,13
e,59,103
e,103,104
mat,4
e,104,105
e,105,106
mat,3
e,106,107
type,2
mat,3
real,23
e,107,109,106
type,1
mat,3
real,13
e,109,111
e,111,112
type,1
mat,5
real,15
e,112,68
e,101,113
mat,6
e,113,114
e,114,115
mat,5
e,115,116
type,2
real,25
e,116,118,115
type,1
mat,5
real,15
e,118,9023
e,9023,120
type,2
real,25
e,120,122,9023
type,1
mat,5
real,15
e,122,124
e,124,125
type,2
real,25
e,125,127,124
type,1
mat,5
real,15
e,127,129
e,129,9024
e,9024,130
mat,1
type,1
real,11
e,65,131
e,131,132
e,71,133
e,133,134
real,58
type,3
e,1,1001
type,4
e,1,1001
type,5
e,1,1001
real,59
type,6
e,1,1001
type,7
```

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e,1,1001
type,6
e,1,1001
real,51
type,3
e,9,1009
type,5
e,10,1010
type,4
e,15,1015
real,52
type,4
e,14,1014
real,51
type,3
e,23,1023
type,5
e,28,1028
real,53
type,4
e,37,1037
type,3
e,39,1039
real,51
type,4
e,44,1044
type,5
e,45,1045
real,54
type,4
e,53,1053
real,55
e,79,1079
real,51
type,3
e,124,1124
type,5
e,129,1129
type,4
e,52,1052
type,5
e,54,1054
type,3
e,57,1057
real,56
type,4
e,78,1078
type,5
real,51
e,73,1073
real,57
type,4
e,61,1061
real,51
type,3
e,131,1131
type,5
e,131,1131
type,3
e,133,1133
type,5
e,133,1133
real,58
type,3
e,87,1087
type,4
e,87,1087
type,5
e,87,1087
real,59
type,6
e,87,1087
type,7
e,87,1087
type,8
e,87,1087
real,58
type,3
e,130,1130
type,4
e,130,1130
type,5
e,130,1130
real,59
type,6
e,130,1130
type,7
e,130,1130
type,8
e,130,1130
type,30
real,31
e,9
e,10
e,15
e,23
e,28
e,44
e,45
e,52
e,54
```



```
e,57
e,73
e,114
e,124
e,129
real,32
e,14
e,79
real,33
e,37
real,?
e,39
real,3
e,49
e,75
e,95
real,36
e,53
real,37
e,61
real,38
e,65
e,71
real,39
e,78
real,40
e,105
real,41
e,111
e,133
real,42
e,132
e,134
n, 301 ,0,        555 ,0,                    !for building
n, 302 ,0,        568 ,0,
n, 303 ,0,        571 ,0,
n, 304 ,0,        574 ,0,
n, 305 ,0, 57.83333 ,0,
n, 306 ,0,        590 ,0,
n, 307 ,0,      595.5 ,0,
n, 308 ,0,        604 ,0,
n, 309 ,0,      609.5 ,0,
n, 310 ,0,      624.5 ,0,
n, 311 ,0, 629.58333 ,0,
n, 312 ,0, 638.33333 ,0,
n, 313 ,0,        647 ,0,
type,71
mat,71
real,71
e,301,302
e,302,303
e,303,304
real,72
e,304,305
real,73
e,305,306
real,74
e,306,307
e,307,308
real,75
e,308,309
e,309,310
real,76
e,310,311
e,311,312
e,312,313
type,72
real,77
e,304
real,78
e,306
real,79
e,308
real,80
e,310
real,81
e,313
cp,1,ux,304,1001
cp,2,ux,309,1087
cp,3,ux,312,1037,1039,1044,1045,1053,1079
cp,3,ux,312,1124,1129,1052,1054,1057,1078
cp,3,ux,312,1073,1061,1131,1133,1130
cp,4,ux,306,1009,1010
cp,5,ux,307,1015,1014
cp,6,ux,308,1023
cp,7,ux,310,1028
cplgen,1,uy,uz,rotx,roty,rotz
cplgen,2,uy,uz,rotx,roty,rotz
cplgen,3,uy,uz,rotx,roty,rotz
cplgen,4,uy,uz,rotx,roty,rotz
cplgen,5,uy,uz,rotx,roty,rotz
cplgen,6,uy,uz,rocx,roty,rotz
cplgen,7,uy,uz,rotx,roty,rotz
d,301,all
lumpm,on
save
finish

/solu
antype,modal
modopt,,33.,,33
```

```
   750  m,1,ux,134,,uy,ux
   751  m,9001,ux,9024,,uy,ux
   752  m,304,ux,310,2,uy,ux
   753  m,313,ux,,,uy,ux
   754  outpr,nsol,all
   755  save
   756  solve
   757  finish

CURRENT JOBNAME REDEFINED AS cpmodal

BRITISH FEET UNITS SYSTEM
 LENGTH      = FEET
 MASS        = SLUG
 TIME        = SECOND (SEC)
 TEMPERATURE = FAHRENHEIT
 CURRENT     = AMPS
1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0     *****
40416-2          VERSION=SUN4SPARC     15:51:46  OCT 11, 1995 CP=      1.710
FOR SUPPORT CALL                PHONE                    FAX


**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**

        ***** ANSYS ANALYSIS DEFINITION (PREP7) *****

PARAMETER G         =      32.20000

PARAMETER A         =     0.1440000

PARAMETER B         =      1.728000

PARAMETER C         =     0.19387248-02

PARAMETER D         =     0.12000008-01

PARAMETER R1        =     0.2395833

PARAMETER R3        =     0.7000000E-01

PARAMETER R5        =     0.1583333

PARAMETER T1        =     0.3125000E-01

PARAMETER T3        =     0.1566667E-01

PARAMETER T5        =     0.2341667E-01

PARAMETER RR11      =      1.667000

PARAMETER RR1       =     0.3125000

PARAMETER RR12      =     0.5000000

PARAMETER RR13      =     0.3130000

PARAMETER RR3       =     0.1250000

PARAMETER RR5       =     0.1870000

TITLE=
 Modal analysis of coupled system of pressurizer spray line & building

MATERIAL     1          EX   =     4075200.

MATERIAL     1          NUXY =     0.3000000

MATERIAL     1          DENS =     0.2183911E-01

MATERIAL     2          EX   =     4075200.

MATERIAL     2          NUXY =     0.3000000

MATERIAL     2          DENS =     0.2354123E-01

MATERIAL     3          EX   =     4075200.

MATERIAL     3          NUXY =     0.3000000

MATERIAL     3          DENS =     0.4983217E-01

MATERIAL     4          EX   =     4075200.

MATERIAL     4          NUXY =     0.3000000

MATERIAL     4          DENS =     0.1140205

MATERIAL     5          EX   =     4075200.

MATERIAL     5          NUXY =     0.3000000

MATERIAL     5          DENS =     0.2679976E-01

MATERIAL     6          EX   =     4075200.

MATERIAL     6          NUXY =     0.3000000
```



```
MATERIAL     6          DENS =     0.1386141

ELEMENT TYPE     1 IS PIPE16       ELASTIC STRAIGHT PIPE
 KEYOPT(1-12)=    0  0  0    0  0  1    0  0  0    0  0  0

CURRENT NODAL DOF SET IS  UX    UY    UZ    ROTX  ROTY  ROTZ
 THREE-DIMENSIONAL MODEL

ELEMENT TYPE     2 IS PIPE18       ELASTIC CURVED PIPE (ELBOW)
 KEYOPT(1-12)=    0  0  0    0  0  2    0  0  0    0  0  0

CURRENT NODAL DOF SET IS  UX    UY    UZ    ROTX  ROTY  ROTZ
 THREE-DIMENSIONAL MODEL

ELEMENT TYPE     3 IS COMBIN14     SPRING-DAMPER
 KEYOPT(1-12)=    0  1  0    0  0  0    0  0  0    0  0  0

CURRENT NODAL DOF SET IS  UX    UY    UZ    ROTX  ROTY  ROTZ
 THREE-DIMENSIONAL MODEL

ELEMENT TYPE     4 IS COMBIN14     SPRING-DAMPER
 KEYOPT(1-12)=    0  2  0    0  0  0    0  0  0    0  0  0

CURRENT NODAL DOF SET IS  UX    UY    UZ    ROTX  ROTY  ROTZ
 THREE-DIMENSIONAL MODEL

ELEMENT TYPE     5 IS COMBIN14     SPRING-DAMPER
 KEYOPT(1-12)=    0  3  0    0  0  0    0  0  0    0  0  0

CURRENT NODAL DOF SET IS  UX    UY    UZ    ROTX  ROTY  ROTZ
 THREE-DIMENSIONAL MODEL

ELEMENT TYPE     6 IS COMBIN14     SPRING-DAMPER
 KEYOPT(1-12)=    0  4  0    0  0  0    0  0  0    0  0  0

CURRENT NODAL DOF SET IS  UX    UY    UZ    ROTX  ROTY  ROTZ
 THREE-DIMENSIONAL MODEL

ELEMENT TYPE     7 IS COMBIN14     SPRING-DAMPER
 KEYOPT(1-12)=    0  5  0    0  0  0    0  0  0    0  0  0

CURRENT NODAL DOF SET IS  UX    UY    UZ    ROTX  ROTY  ROTZ
 THREE-DIMENSIONAL MODEL

ELEMENT TYPE     8 IS COMBIN14     SPRING-DAMPER
 KEYOPT(1-12)=    0  6  0    0  0  0    0  0  0    0  0  0

CURRENT NODAL DOF SET IS  UX    UY    UZ    ROTX  ROTY  ROTZ
 THREE-DIMENSIONAL MODEL

ELEMENT TYPE    30 IS MASS21       STRUCTURAL MASS
 KEYOPT(1-12)=    0  0  2    0  0  0    0  0  0    0  0  0

CURRENT NODAL DOF SET IS  UX    UY    UZ    ROTX  ROTY  ROTZ
 THREE-DIMENSIONAL MODEL

REAL CONSTANT SET      11  ITEMS    1 TO    6
  0.23958      0.31250E-01      0.              0.              0.      0.19387E-02

REAL CONSTANT SET     211  ITEMS    1 TO    6
  0.23958      0.31250E-01   1.6670             0.              0.              0.

REAL CONSTANT SET     211  ITEMS    7 TO   12
  0.19387E-02      0.              0.              0.              0.              0.

REAL CONSTANT SET      21  ITEMS    1 TO    6
  0.23958      0.31250E-01   0.31250            0.              0.              0.

REAL CONSTANT SET      21  ITEMS    7 TO   12
  0.19387E-02      0.              0.              0.              0.              0.

REAL CONSTANT SET     212  ITEMS    1 TO    6
  0.23958      0.31250E-01   0.50000            0.              0.              0.

REAL CONSTANT SET     212  ITEMS    7 TO   12
  0.19387E-02      0.              0.              0.              0.              0.

REAL CONSTANT SET     213  ITEMS    1 TO    6
  0.23958      0.31250E-01   0.31300            0.              0.              0.

REAL CONSTANT SET      21  ITEMS    7 TO   12
  0.19387E-02      0.              0.              0.              0.              0.

REAL CONSTANT SET      13  ITEMS    1 TO    6
  0.70000E-01   0.15667E-01      0.              0.              0.      0.19387E-02

REAL CONSTANT SET      23  ITEMS    1 TO    6
  0.70000E-01   0.15667E-01   0.12500            0.              0.              0.

REAL CONSTANT SET      22  ITEMS    7 TO   12
  0.19387E-02      0.              0.              0.              0.              0.

REAL CONSTANT SET      15  ITEMS    1 TO    6
  0.15833      0.23417E-01      0.              0.              0.      0.19387E-02

REAL CONSTANT SET      25  ITEMS    1 TO    6
  0.15833      0.23417E-01   0.18700            0.              0.              0.

REAL CONSTANT SET      25  ITEMS    7 TO   12
  0.19387E-02      0.              0.              0.              0.              0.
```

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REAL CONSTANT SET      51  ITEMS    1 TO    6
   924.00          0.             0.             0.             0.             0.

REAL CONSTANT SET      52  ITEMS    1 TO    6
  0.67200          0.             0.             0.             0.             0.

REAL CONSTANT SET      53  ITEMS    1 TO    6
   2544.0          0.             0.             0.             0.             0.

REAL CONSTANT SET      54  ITEMS    1 TO    6
   1.5120          0.             0.             0.             0.             0.

REAL CONSTANT SET      55  ITEMS    1 TO    6
  0.42000          0.             0.             0.             0.             0.

REAL CONSTANT SET      56  ITEMS    1 TO    6
   4.8000          0.             0.             0.             0.             0.

REAL CONSTANT SET      57  ITEMS    1 TO    6
   2.6880          0.             0.             0.             0.             0.

REAL CONSTANT SET      58  ITEMS    1 TO    6
  0.12000E+10      0.             0.             0.             0.             0.

REAL CONSTANT SET      59  ITEMS    1 TO    6
  0.83300E+09      0.             0.             0.             0.             0.

REAL CONSTANT SET      31  ITEMS    1 TO    6
  0.77640E-03      0.             0.             0.             0.             0.

REAL CONSTANT SET      32  ITEMS    1 TO    6
  0.12422E-03      0.             0.             0.             0.             0.

REAL CONSTANT SET      33  ITEMS    1 TO    6
  0.13354E-02      0.             0.             0.             0.             0.

REAL CONSTANT SET      34  ITEMS    1 TO    6
  0.12422E-02      0.             0.             0.             0.             0.

REAL CONSTANT SET      35  ITEMS    1 TO    6
  0.23292E-02      0.             0.             0.             0.             0.

REAL CONSTANT SET      36  ITEMS    1 TO    6
  0.15528E-03      0.             0.             0.             0.             0.

REAL CONSTANT SET      37  ITEMS    1 TO    6
  0.18634E-03      0.             0.             0.             0.             0.

REAL CONSTANT SET      38  ITEMS    1 TO    6
  0.32609E-02      0.             0.             0.             0.             0.

REAL CONSTANT SET      39  ITEMS    1 TO    6
  0.31056E-03      0.             0.             0.             0.             0.

REAL CONSTANT SET      40  ITEMS    1 TO    6
  0.37267E-03      0.             0.             0.             0.             0.

REAL CONSTANT SET      41  ITEMS    1 TO    6
  0.97826E-03      0.             0.             0.             0.             0.

REAL CONSTANT SET      42  ITEMS    1 TO    6
  0.71429E-02      0.             0.             0.             0.             0.

PARAMETER F          =    0.6944444E-02

PARAMETER I          =    0.4822531E-04

ELEMENT TYPE   71 IS BEAM4         3-D ELASTIC BEAM
 KEYOPT(1-12)=    0  0  0    0  0  0    0  0  0    0  0  0

CURRENT NODAL DOF SET IS  UX    UY    UZ    ROTX  ROTY  ROTZ
 THREE-DIMENSIONAL MODEL

MATERIAL   71           EX   =    648000.0

MATERIAL   71           NUXY =   0.3000000

MATERIAL   71           DENS =          0.

REAL CONSTANT SET      71  ITEMS    1 TO    6
   1090.3      0.56906E+06  0.49672E+06      0.             0.             0.

REAL CONSTANT SET      71  ITEMS    7 TO   12
     0.            0.          1.7100        1.6700         0.             0.

REAL CONSTANT SET      72  ITEMS    1 TO    6
   1687.5      0.68962E+06  0.53048E+06      0.             0.             0.

REAL CONSTANT SET      72  ITEMS    7 TO   12
     0.            0.          1.2600        1.2300         0.             0.

REAL CONSTANT SET      73  ITEMS    1 TO    6
   1125.0      0.60282E+06  0.77160E+06      0.                            0.

REAL CONSTANT SET      73  ITEMS    7 TO   12
     0.            0.          1.5700        2.3300                        0.

REAL CONSTANT SET      74  ITEMS    1 TO    6
   916.67      0.55659E+06  0.71373E+05      0.             0.             0.

REAL CONSTANT SET      74  ITEMS    7 TO   12
```



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     0.        0.12731E+07   1.5?00        ?.2600           0.             0.

REAL CONSTANT SET      75  ITEMS    1 TO    6
   643.47      0.27276E+06  0.10373E+06      0.             0.             0.

REAL CONSTANT SET      75  ITEMS    ?      12
     0.            0.          1.4200        2.5700         0.             0.

REAL CONSTANT SET      76  ITEMS    1 TO    6
   685.49      0.35552E+06  0.12553E+06      0.             0.             0.

REAL CONSTANT SET      76  ITEMS    7 TO   12
     0.            0.          1.5100        2.8800         0.             0.

ELEMENT TYPE   72 IS MASS21        STRUCTURAL MASS
 KEYOPT(1-12)=    0  0  2    0  0  0    0  0  0    0  0  0

CURRENT NODAL DOF SET IS  UX    UY    UZ    ROTX  ROTY  ROTZ
 THREE-DIMENSIONAL MODEL

REAL CONSTANT SET      77  ITEMS    1 TO    6
   138.94          0.             0.             0.             0.             0.

REAL CONSTANT SET      78  ITEMS    1 TO    6
   137.54          0.             0.             0.             0.             0.

REAL CONSTANT SET      79  ITEMS    1 TO    6
   82.321          0.             0.             0.             0.             0.

REAL CONSTANT SET      80  ITEMS    1 TO    6
   99.604          0.             0.             0.             0.             0.

REAL CONSTANT SET      81  ITEMS    1 TO    6
   88.439          0.             0.             0.             0.             0.

NODE        1  KCS=   0  X,Y,Z=     0.          574.00        0.
NODE        2  KCS=   0  X,Y,Z= 0.39600         574.00     -0.39600
NODE        3  KCS=   0  X,Y,Z=  1.5740         574.00     -0.88400
NODE        4  KCS=   0  X,Y,Z=  3.7900         574.00     -0.88400
NODE        5  KCS=   0  X,Y,Z=  4.9050         574.00     -0.88400
NODE     9001  KCS=   0  X,Y,Z=  5.0610         574.04     -0.88400
NODE     9002  KCS=   0  X,Y,Z=  5.1750         574.16     -0.88400
NODE        6  KCS=   0  X,Y,Z=  5.2170         574.31     -0.88400
NODE        7  KCS=   0  X,Y,Z=  5.2170         574.50     -0.88400
NODE     9003  KCS=   0  X,Y,Z=  5.2170         577.57     -0.88400
NODE     9004  KCS=   0  X,Y,Z=  5.2170         580.63     -0.88400
NODE        9  KCS=   0  X,Y,Z=  5.2170         583.70     -0.88400
NODE       10  KCS=   0  X,Y,Z=  5.2170         584.23     -0.88400
NODE     9005  KCS=   0  X,Y,Z=  5.2170         586.83     -0.88400
NODE     9006  KCS=   0  X,Y,Z=  5.2170         589.44     -0.88400
NODE       11  KCS=   0  X,Y,Z=  5.2170         592.04     -0.88400
NODE       12  KCS=   0  X,Y,Z=  5.2170         592.94     -0.88400
NODE     9007  KCS=   0  X,Y,Z=  5.2590         593.09     -0.88400
NODE     9008  KCS=   0  X,Y,Z=  5.3730         593.2?     -0.88400
NODE       13  KCS=   0  X,Y,Z=  5.5300         593.25     -0.88400
NODE       14  KCS=   0  X,Y,Z=  5.7590         593.25     -0.88400
NODE       15  KCS=   0  X,Y,Z=  6.2590         593.25     -0.88400
NODE       16  KCS=   0  X,Y,Z=  7.4220         593.25     -0.88400
NODE       17  KCS=   0  X,Y,Z=  7.6430         593.25     -0.79200
NODE       18  KCS=   0  X,Y,Z=  8.0510         593.??     ?.?8400
NODE       19  KCS=   0  X,Y,Z=  8.6290         593.25     ?.??400
NODE       20  KCS=   0  X,Y,Z=  10.158         593.25      1.7230
NODE       21  KCS=   0  X,Y,Z=  10.379         593.56      1.9440
NODE     9009  KCS=   0  X,Y,Z=  10.379         596.90      1.9440
NODE     9010  KCS=   0  X,Y,Z=  10.379         600.24      1.9440
NODE       22  KCS=   0  X,Y,Z=  10.379         603.58      1.9440
NODE       23  KCS=   0  X,Y,Z=  10.379         604.29      1.9440
NODE       24  KCS=   0  X,Y,Z=  10.379         605.65      1.9440
```

NODE	9011	RCS=	0	X,Y,Z=	10.379	608.44	1.9440
NODE	9012	RCS=	0	X,Y,Z=	10.379	611.22	1.9440
NODE	25	RCS=	0	X,Y,Z=	10.379	614.00	1.9440
NODE	26	RCS=	0	X,Y,Z=	10.379	614.79	1.9440
NODE	9013	RCS=	0	X,Y,Z=	10.379	617.74	1.9440
NODE	9014	RCS=	0	X,Y,Z=	10.379	620.69	1.9440
NODE	27	RCS=	0	X,Y,Z=	10.379	623.64	1.9440
NODE	28	RCS=	0	X,Y,Z=	10.379	624.75	1.9440
NODE	29	RCS=	0	X,Y,Z=	10.379	626.41	1.9440
NODE	9015	RCS=	0	X,Y,Z=	10.379	629.53	1.9440
NODE	9016	RCS=	0	X,Y,Z=	10.379	632.64	1.9440
NODE	30	RCS=	0	X,Y,Z=	10.379	635.75	1.9440
NODE	31	RCS=	0	X,Y,Z=	10.379	635.61	1.9440
NODE	32	RCS=	0	X,Y,Z=	10.379	636.05	2.0350
NODE	35	RCS=	0	X,Y,Z=	10.379	636.14	2.2560
NODE	37	RCS=	0	X,Y,Z=	10.379	636.14	2.9590
NODE	9017	RCS=	0	X,Y,Z=	10.379	636.14	5.6570
NODE	9018	RCS=	0	X,Y,Z=	10.379	636.14	8.3550
NODE	38	RCS=	0	X,Y,Z=	10.379	636.14	11.053
NODE	39	RCS=	0	X,Y,Z=	10.379	636.14	11.918
NODE	9019	RCS=	0	X,Y,Z=	10.379	636.14	14.756
NODE	40	RCS=	0	X,Y,Z=	10.379	636.14	17.595
NODE	41	RCS=	0	X,Y,Z=	10.379	636.14	20.048
NODE	43	RCS=	0	X,Y,Z=	10.692	636.14	20.360
NODE	44	RCS=	0	X,Y,Z=	10.812	636.14	20.360
NODE	45	RCS=	0	X,Y,Z=	11.129	636.14	20.360
NODE	9020	RCS=	0	X,Y,Z=	13.507	636.14	20.360
NODE	46	RCS=	0	X,Y,Z=	15.885	636.14	20.360
NODE	47	RCS=	0	X,Y,Z=	16.135	636.14	20.360
NODE	48	RCS=	0	X,Y,Z=	16.385	636.14	20.360
NODE	49	RCS=	0	X,Y,Z=	16.601	636.14	20.360
NODE	50	RCS=	0	X,Y,Z=	17.218	636.14	20.360
NODE	51	RCS=	0	X,Y,Z=	17.343	636.14	20.360
NODE	52	RCS=	0	X,Y,Z=	17.801	636.14	20.360
NODE	53	RCS=	0	X,Y,Z=	19.822	636.14	20.360
NODE	54	RCS=	0	X,Y,Z=	22.801	636.14	20.360
NODE	55	RCS=	0	X,Y,Z=	22.864	636.14	20.360
NODE	56	RCS=	0	X,Y,Z=	23.176	636.14	20.673
NODE	57	RCS=	0	X,Y,Z=	23.176	636.14	20.860
NODE	58	RCS=	0	X,Y,Z=	23.176	636.14	21.027
NODE	59	RCS=	0	X,Y,Z=	23.176	636.14	21.277
NODE	60	RCS=	0	X,Y,Z=	23.176	636.14	21.527
NODE	61	RCS=	0	X,Y,Z=	23.176	636.14	21.777
NODE	62	RCS=	0	X,Y,Z=	23.176	636.14	21.798
NODE	63	RCS=	0	X,Y,Z=	22.864	636.14	22.110
NODE	64	RCS=	0	X,Y,Z=	21.947	636.14	22.110
NODE	65	RCS=	0	X,Y,Z=	21.530	636.14	22.110
NODE	66	RCS=	0	X,Y,Z=	21.113	636.14	22.110
NODE	67	RCS=	0	X,Y,Z=	20.759	636.14	22.110
NODE	68	RCS=	0	X,Y,Z=	20.509	636.14	22.110
NODE	69	RCS=	0	X,Y,Z=	20.259	636.14	22.110

NODE	70	RCS=	0	X,Y,Z=	20.071	636.14	22.110
NODE	71	RCS=	0	X,Y,Z=	19.654	636.14	22.110
NODE	72	RCS=	0	X,Y,Z=	19.237	636.14	22.110
NODE	73	RCS=	0	X,Y,Z=	17.383	636.14	22.110
NODE	74	RCS=	0	X,Y,Z=	17.175	636.14	22.110
NODE	75	RCS=	0	X,Y,Z=	16.758	636.14	22.110
NODE	76	RCS=	0	X,Y,Z=	16.341	636.14	22.110
NODE	77	RCS=	0	X,Y,Z=	16.133	636.14	22.110
NODE	78	RCS=	0	X,Y,Z=	15.799	636.14	22.110
NODE	9021	RCS=	0	X,Y,Z=	13.413	636.14	22.170
NODE	79	RCS=	0	X,Y,Z=	11.028	636.14	22.110
NODE	80	RCS=	0	X,Y,Z=	10.121	636.14	22.110
NODE	81	RCS=	0	X,Y,Z=	9.8970	636.14	22.110
NODE	82	RCS=	0	X,Y,Z=	9.5850	636.14	21.798
NODE	9022	RCS=	0	X,Y,Z=	9.5850	636.14	19.663
NODE	83	RCS=	0	X,Y,Z=	9.5850	636.14	17.527
NODE	84	RCS=	0	X,Y,Z=	9.5850	636.14	17.333
NODE	85	RCS=	0	X,Y,Z=	9.5850	636.14	17.194
NODE	86	RCS=	0	X,Y,Z=	9.2310	635.79	16.694
NODE	87	RCS=	0	X,Y,Z=	8.7600	635.32	16.694
NODE	47	RCS=	0	X,Y,Z=	16.135	636.14	20.360
NODE	91	RCS=	0	X,Y,Z=	16.135	636.39	20.360
NODE	92	RCS=	0	X,Y,Z=	16.135	637.33	20.360
NODE	93	RCS=	0	X,Y,Z=	16.135	637.64	20.673
NODE	94	RCS=	0	X,Y,Z=	16.135	637.64	20.944
NODE	95	RCS=	0	X,Y,Z=	16.135	637.64	21.361
NODE	96	RCS=	0	X,Y,Z=	16.135	637.64	21.778
NODE	97	RCS=	0	X,Y,Z=	16.135	637.64	21.799
NODE	98	RCS=	0	X,Y,Z=	16.135	637.33	22.111
NODE	100	RCS=	0	X,Y,Z=	16.135	636.96	22.111
NODE	101	RCS=	0	X,Y,Z=	16.135	636.71	22.111
NODE	102	RCS=	0	X,Y,Z=	16.135	636.39	22.111
NODE	77	RCS=	0	X,Y,Z=	16.135	636.14	22.111
NODE	59	RCS=	0	X,Y,Z=	23.176	636.14	21.277
NODE	103	RCS=	0	X,Y,Z=	22.866	636.14	21.277
NODE	104	RCS=	0	X,Y,Z=	22.092	636.14	21.277
NODE	105	RCS=	0	X,Y,Z=	21.842	636.14	21.277
NODE	106	RCS=	0	X,Y,Z=	21.592	636.14	21.277
NODE	107	RCS=	0	X,Y,Z=	20.634	636.14	21.277
NODE	109	RCS=	0	X,Y,Z=	20.509	636.14	21.402
NODE	111	RCS=	0	X,Y,Z=	20.509	636.14	21.683
NODE	112	RCS=	0	X,Y,Z=	20.509	636.14	21.801
NODE	58	RCS=	0	X,Y,Z=	20.509	636.14	22.111
NODE	101	RCS=	0	X,Y,Z=	16.135	636.71	22.111
NODE	113	RCS=	0	X,Y,Z=	16.135	636.71	22.611
NODE	114	RCS=	0	X,Y,Z=	16.135	636.71	22.965
NODE	115	RCS=	0	X,Y,Z=	16.135	636.71	23.319
NODE	116	RCS=	0	X,Y,Z=	16.135	636.71	23.840
NODE	118	RCS=	0	X,Y,Z=	16.135	636.89	24.027
NODE	9023	RCS=	0	X,Y,Z=	16.135	639.27	24.027

```
 NODE     120  NCS=    0  X,Y,Z=  16.135      641.65      24.027
 NODE     122  NCS=    0  X,Y,Z=  16.135      641.84      24.214
 NODE     124  NCS=    0  X,Y,Z=  16.135      641.84      24.567
 NODE     125  NCS=    0  X,Y,Z=  16.135      641.84      25.411
 NODE     127  NCS=    0  X,Y,Z=  16.135      641.65      25.598
 NODE     129  NCS=    0  X,Y,Z=  16.135      639.51      25.598
 NODE    9024  NCS=    0  X,Y,Z=  16.135      637.97      25.598
 NODE     130  NCS=    0  X,Y,Z=  16.135      636.42      25.598
 NODE      65  NCS=    0  X,Y,Z=  21.530      636.14      22.110
 NODE     131  NCS=    0  X,Y,Z=  21.530      636.41      22.110
 NODE     132  NCS=    0  X,Y,Z=  21.530      636.69      22.110
 NODE      71  NCS=    0  X,Y,Z=  13.654      636.14      22.110
 NODE     133  NCS=    0  X,Y,Z=  19.654      636.41      22.110
 NODE     134  NCS=    0  X,Y,Z=  19.654      636.69      22.110
 NODE    1001  NCS=    0  X,Y,Z=      0.      574.00          0.
 NODE    1009  NCS=    0  X,Y,Z=  5.2170      583.70     -0.88400
 NODE    1010  NCS=    0  X,Y,Z=  5.2170      584.23     -0.88400
 NODE    1014  NCS=    0  X,Y,Z=  5.7590      593.25     -0.88400
 NODE    1015  NCS=    0  X,Y,Z=  6.2590      593.25     -0.88400
 NODE    1023  NCS=    0  X,Y,Z=  10.379      604.29       1.9440
 NODE    1028  NCS=    0  X,Y,Z=  10.379      624.75       1.9440
 NODE    1029  NCS=    0  X,Y,Z=  10.379      626.41       1.9440
 NODE    1037  NCS=    0  X,Y,Z=  10.379      636.14       2.9590
 NODE    1039  NCS=    0  X,Y,Z=  10.379      636.14       11.918
 NODE    1044  NCS=    0  X,Y,Z=  10.812      636.14       20.360
 NODE    1045  NCS=    0  X,Y,Z=  11.129      636.14       20.360
 NODE    1052  NCS=    0  X,Y,Z=  17.801      636.14       20.360
 NODE    1053  NCS=    0  X,Y,Z=  19.822      636.14       20.360
 NODE    1054  NCS=    0  X,Y,Z=  22.801      636.14       20.360
 NODE    1057  NCS=    0  X,Y,Z=  23.176      636.14       20.867
 NODE    1061  NCS=    0  X,Y,Z=  23.176      636.14       21.777
 NODE    1073  NCS=    0  X,Y,Z=  17.383      636.14       22.110
 NODE    1078  NCS=    0  X,Y,Z=  15.799      636.14       22.110
 NODE    1079  NCS=    0  X,Y,Z=  11.028      636.14       22.110
 NODE    1087  NCS=    0  X,Y,Z=  8.7600      635.32       16.694
 NODE    1124  NCS=    0  X,Y,Z=  16.135      641.84       24.567
 NODE    1119  NCS=    0  X,Y,Z=  16.135      639.51       25.598
 NODE    1130  NCS=    0  X,Y,Z=  16.135      636.42       25.598
 NODE    1131  NCS=    0  X,Y,Z=  21.530      636.41       22.110
 NODE    1133  NCS=    0  X,Y,Z=  19.654      636.41       22.110
 ELEMENT TYPE SET TO      1
 REAL CONSTANT NUMBER=     11
 MATERIAL NUMBER SET TO     1
 ELEMENT       1       1       2       0
 ELEMENT TYPE SET TO      2
 REAL CONSTANT NUMBER=    211
 ELEMENT       2       3       3       1
 ELEMENT TYPE SET TO      1
 REAL CONSTANT NUMBER=     11
 ELEMENT       3       3       4       0
 ELEMENT       4       4       5       0
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 ELEMENT TYPE SET TO      2
 REAL CONSTANT NUMBER=     21
 ELEMENT       5       5      90       4
 ELEMENT       6    9001    9002       4
 ELEMENT       7    9002       6       4
 ELEMENT TYPE SET TO      1
 REAL CONSTANT NUMBER=     11
 ELEMENT       8       6       7       0
 ELEMENT       9       7    9003       0
 ELEMENT      10    9003    9004       0
 ELEMENT      11    9004       9       0
 ELEMENT      12       9      10       0
 ELEMENT      13      10    9005       0
 ELEMENT      14    9005    9006       0
 ELEMENT      15    9006      11       0
 ELEMENT      16      11      12       0
 ELEMENT TYPE SET TO      2
 REAL CONSTANT NUMBER=     21
 ELEMENT      17      12    9007      11
 ELEMENT      18    9007    9008      11
 ELEMENT      19    9008      13      11
 ELEMENT TYPE SET TO      1
 REAL CONSTANT NUMBER=     11
 ELEMENT      20      13      14       0
 ELEMENT      21      14      15       0
 ELEMENT      22      15      16       0
 ELEMENT TYPE SET TO      2
 REAL CONSTANT NUMBER=     21
 ELEMENT      23      16      17      15
 ELEMENT TYPE SET TO      1
 REAL CONSTANT NUMBER=     11
 ELEMENT      24      17      18       0
 ELEMENT      25      18      19       0
 ELEMENT      26      19      20       0
 ELEMENT TYPE SET TO      2
 REAL CONSTANT NUMBER=     21
 ELEMENT      27      20      21      19
 ELEMENT TYPE SET TO      1
 REAL CONSTANT NUMBER=     11
 ELEMENT      28      21    9009       0
 ELEMENT      29    9009    9010       0
 ELEMENT      30    9010      22       0
 ELEMENT      31      22      23       0
 ELEMENT      32      23      24       0
 ELEMENT      33      24    9011       0
 ELEMENT      34    9011    9012       0
 ELEMENT      35    9012      25       0
 ELEMENT      36      25      26       0
 ELEMENT      37      26    9013       0
 ELEMENT      38    9013    9014       0
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ELEMENT     39   9014     27      0
ELEMENT     40     27     28      0
ELEMENT     41     28     29      0
ELEMENT     42     29   9015      0
ELEMENT     43   9015   9016      0
ELEMENT     44   9016     30      0
ELEMENT     45     30     31      0
ELEMENT TYPE SET TO      2
REAL CONSTANT NUMBER=     21
ELEMENT     46     31     32     30
ELEMENT     47     32     35     30
ELEMENT TYPE SET TO      1
REAL CONSTANT NUMBER=     11
ELEMENT     48     35     37      0
ELEMENT     49     37   9017      0
ELEMENT     50   9017   9018      0
ELEMENT     51   9018     38      0
ELEMENT     52     38     39      0
ELEMENT     53     39   9019      0
ELEMENT     54   9019     40      0
ELEMENT     55     40     41      0
ELEMENT TYPE SET TO      2
REAL CONSTANT NUMBER=     21
ELEMENT     56     41     43     40
ELEMENT TYPE SET TO      1
REAL CONSTANT NUMBER=     11
ELEMENT     57     43     44      0
ELEMENT     58     44     45      0
ELEMENT     59     45   9020      0
ELEMENT     60   9020     46      0
ELEMENT     61     46     47      0
ELEMENT     62     47     48      0
ELEMENT TYPE SET TO      1
REAL CONSTANT NUMBER=     11
MATERIAL NUMBER SET TO     2
ELEMENT     63     48     49      0
ELEMENT     64     49     50      0
ELEMENT TYPE SET TO      1
REAL CONSTANT NUMBER=     11
MATERIAL NUMBER SET TO     1
ELEMENT     65     50     51      0
ELEMENT     66     51     52      0
ELEMENT     67     52     53      0
ELEMENT     68     53     54      0
ELEMENT     69     54     55      0
ELEMENT TYPE SET TO      2
REAL CONSTANT NUMBER=     21
ELEMENT     70     55     58     54
ELEMENT TYPE SET TO      1
REAL CONSTANT NUMBER=     11
ELEMENT     71     56     57      0
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ELEMENT     72     57     58      0
ELEMENT     73     58     59      0
ELEMENT     74     59     60      0
ELEMENT     75     60     61      0
ELEMENT     76     61     62      0
ELEMENT TYPE SET TO      2
REAL CONSTANT NUMBER=     21
ELEMENT     77     62     63     61
ELEMENT TYPE SET TO      1
REAL CONSTANT NUMBER=     11
ELEMENT     78     63     64      0
ELEMENT TYPE SET TO      1
REAL CONSTANT NUMBER=     11
MATERIAL NUMBER SET TO     2
ELEMENT     79     64     65      0
ELEMENT     80     65     66      0
ELEMENT TYPE SET TO      1
REAL CONSTANT NUMBER=     11
MATERIAL NUMBER SET TO     1
ELEMENT     81     66     67      0
ELEMENT     82     67     68      0
ELEMENT     83     68     69      0
ELEMENT     84     69     70      0
ELEMENT TYPE SET TO      1
REAL CONSTANT NUMBER=     11
MATERIAL NUMBER SET TO     2
ELEMENT     85     70     71      0
ELEMENT     86     71     72      0
ELEMENT TYPE SET TO      1
REAL CONSTANT NUMBER=     11
MATERIAL NUMBER SET TO     1
ELEMENT     87     72     73      0
ELEMENT     88     73     74      0
MATERIAL NUMBER SET TO     2
ELEMENT     89     74     75      0
ELEMENT     90     75     76      0
MATERIAL NUMBER SET TO     1
ELEMENT     91     76     77      0
ELEMENT     92     77     78      0
ELEMENT     93     78   9021      0
ELEMENT     94   9021     79      0
ELEMENT     95     79     80      0
ELEMENT     96     80     81      0
ELEMENT TYPE SET TO      2
REAL CONSTANT NUMBER=     21
ELEMENT     97     81     82     80
ELEMENT TYPE SET TO      1
REAL CONSTANT NUMBER=     11
ELEMENT     98     82   9022      0
ELEMENT     99   9022     83      0
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ELEMENT     100      83      84       0
ELEMENT     101      84      85       0
ELEMENT TYPE SET TO      2
REAL CONSTANT NUMBER=    212
ELEMENT     102      85      86      84
ELEMENT TYPE SET TO      1
REAL CONSTANT NUMBER=     11
ELEMENT     103      86      87       0
ELEMENT     104      47      91       0
ELEMENT     105      91      92       0
ELEMENT TYPE SET TO      2
REAL CONSTANT NUMBER=    213
ELEMENT     106      92      93      91
ELEMENT TYPE SET TO      1
REAL CONSTANT NUMBER=     11
ELEMENT     107      93      94       0
MATERIAL NUMBER SET TO    2
ELEMENT     108      94      95       0
ELEMENT     109      95      96       0
MATERIAL NUMBER SET TO    1
ELEMENT     110      96      97       0
ELEMENT TYPE SET TO      2
REAL CONSTANT NUMBER=     21
ELEMENT     111      97      98      96
ELEMENT TYPE SET TO      1
REAL CONSTANT NUMBER=     11
ELEMENT     112      98     100       0
ELEMENT     113     100     101       0
ELEMENT     114     101     102       0
ELEMENT     115     102      77       0
ELEMENT TYPE SET TO      1
MATERIAL NUMBER SET TO    3
REAL CONSTANT NUMBER=     13
ELEMENT     116      59     103       0
ELEMENT     117     103     104       0
MATERIAL NUMBER SET TO    4
ELEMENT     118     104     105       0
ELEMENT     119     105     106       0
MATERIAL NUMBER SET TO    3
ELEMENT     120     106     107       0
ELEMENT TYPE SET TO      2
MATERIAL NUMBER SET TO    3
REAL CONSTANT NUMBER=     23
ELEMENT     121     107     109     106
ELEMENT TYPE SET TO      1
MATERIAL NUMBER SET TO    3
REAL CONSTANT NUMBER=     13
ELEMENT     122     109     111       0
ELEMENT     123     111     112       0
ELEMENT TYPE SET TO      1
MATERIAL NUMBER SET TO    5
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REAL CONSTANT NUMBER=     15
ELEMENT     124     112      68       0
ELEMENT     125     101     113       0
MATERIAL NUMBER SET TO    6
ELEMENT     126     113     114       0
ELEMENT     127     114     115       0
MATERIAL NUMBER SET TO    5
ELEMENT     128     115     116       0
ELEMENT TYPE SET TO      2
REAL CONSTANT NUMBER=     25
ELEMENT     129     116     118     115
ELEMENT TYPE SET TO      1
MATERIAL NUMBER SET TO    5
REAL CONSTANT NUMBER=     15
ELEMENT     130     118    9023       0
ELEMENT     131    9023     120       0
ELEMENT TYPE SET TO      2
REAL CONSTANT NUMBER=     25
ELEMENT     132     120     122    9023
ELEMENT TYPE SET TO      1
MATERIAL NUMBER SET TO    5
REAL CONSTANT NUMBER=     15
ELEMENT     133     122     124       0
ELEMENT     134     124     125       0
ELEMENT TYPE SET TO      2
REAL CONSTANT NUMBER=     25
ELEMENT     135     125     127     124
ELEMENT TYPE SET TO      1
MATERIAL NUMBER SET TO    5
REAL CONSTANT NUMBER=     15
ELEMENT     136     127     129       0
ELEMENT     137     129    9024       0
ELEMENT     138    9024     130       0
MATERIAL NUMBER SET TO    1
ELEMENT TYPE SET TO      1
REAL CONSTANT NUMBER=     11
ELEMENT     139      65     131       0
ELEMENT     140     131     132       0
ELEMENT     141      71     133       0
ELEMENT     142     133     134       0
REAL CONSTANT NUMBER=     58
ELEMENT TYPE SET TO      3
ELEMENT     143       1    1001
ELEMENT TYPE SET TO      4
ELEMENT     144       1    1001
ELEMENT TYPE SET TO      5
ELEMENT     145       1    1001
REAL CONSTANT NUMBER=     59
ELEMENT TYPE SET TO      6
ELEMENT     146       1    1001
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 ELEMENT TYPE SET TO       7
 ELEMENT    147       1  1001
 ELEMENT TYPE SET TO       8
 ELEMENT    148       1  1001
 REAL CONSTANT NUMBER=     51
 ELEMENT TYPE SET TO       3
 ELEMENT    149       9  1009
 ELEMENT TYPE SET TO       5
 ELEMENT    150      10  1010
 ELEMENT TYPE SET TO       4
 ELEMENT    151      15  1015
 REAL CONSTANT NUMBER=     52
 ELEMENT TYPE SET TO       4
 ELEMENT    152      14  1014
 REAL CONSTANT NUMBER=     51
 ELEMENT TYPE SET TO       3
 ELEMENT    153      23  1023
 ELEMENT TYPE SET TO       5
 ELEMENT    154      28  1028
 REAL CONSTANT NUMBER=     53
 ELEMENT TYPE SET TO       4
 ELEMENT    155      37  1037
 ELEMENT TYPE SET TO       3
 ELEMENT    156      39  1039
 REAL CONSTANT NUMBER=     51
 ELEMENT TYPE SET TO       4
 ELEMENT    157      44  1044
 ELEMENT TYPE SET TO       5
 ELEMENT    158      45  1045
 REAL CONSTANT NUMBER=     54
 ELEMENT TYPE SET TO       4
 ELEMENT    159      53  1053
 REAL CONSTANT NUMBER=     55
 ELEMENT    160      79  1079
 REAL CONSTANT NUMBER=     51
 ELEMENT TYPE SET TO       3
 ELEMENT    161     124  1124
 ELEMENT TYPE SET TO       5
 ELEMENT    162     129  1129
 ELEMENT TYPE SET TO       4
 ELEMENT    163      52  1052
 ELEMENT TYPE SET TO       5
 ELEMENT    164      54  1054
 ELEMENT TYPE SET TO       3
 ELEMENT    165      57  1057
 REAL CONSTANT NUMBER=     56
 ELEMENT TYPE SET TO       4
 ELEMENT    166      78  1078
 ELEMENT TYPE SET TO       5
 REAL CONSTANT NUMBER=     51
 ELEMENT    167      73  1073
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 REAL CONSTANT NUMBER=     57
 ELEMENT TYPE SET TO       4
 ELEMENT    168      61  1061
 REAL CONSTANT NUMBER=     51
 ELEMENT TYPE SET TO       3
 ELEMENT    169     131  1131
 ELEMENT TYPE SET TO       5
 ELEMENT    170     131  1131
 ELEMENT TYPE SET TO       3
 ELEMENT    171     133  1133
 ELEMENT TYPE SET TO       5
 ELEMENT    172     133  1133
 REAL CONSTANT NUMBER=     58
 ELEMENT TYPE SET TO       3
 ELEMENT    173      87  1087
 ELEMENT TYPE SET TO       4
 ELEMENT    174      87  1087
 ELEMENT TYPE SET TO       5
 ELEMENT    175      87  1087
 REAL CONSTANT NUMBER=     59
 ELEMENT TYPE SET TO       6
 ELEMENT    176      87  1087
 ELEMENT TYPE SET TO       7
 ELEMENT    177      87  1087
 ELEMENT TYPE SET TO       8
 ELEMENT    178      87  1087
 REAL CONSTANT NUMBER=     56
 ELEMENT TYPE SET TO       3
 ELEMENT    179     130  1130
 ELEMENT TYPE SET TO       4
 ELEMENT    180     130  1130
 ELEMENT TYPE SET TO       5
 ELEMENT    181     130  1130
 REAL CONSTANT NUMBER=     59
 ELEMENT TYPE SET TO       6
 ELEMENT    182     130  1130
 ELEMENT TYPE SET TO       7
 ELEMENT    183     130  1130
 ELEMENT TYPE SET TO       8
 ELEMENT    184     130  1130
 ELEMENT TYPE SET TO      30
 REAL CONSTANT NUMBER=     31
 ELEMENT    185       9
 ELEMENT    186      10
 ELEMENT    187      15
 ELEMENT    188      23
 ELEMENT    189      28
 [illegible]  30      44
 [illegible]          45
 [illegible]          52
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 ELEMENT     193      54
 ELEMENT     194      57
 ELEMENT     195      73
 ELEMENT     196     114
 ELEMENT     197     124
 ELEMENT     198     129
 REAL CONSTANT NUMBER=     32
 ELEMENT     199      14
 ELEMENT     200      79
 REAL CONSTANT NUMBER=     33
 ELEMENT     201      37
 REAL CONSTANT NUMBER=     34
 ELEMENT     202      39
 REAL CONSTANT NUMBER=     35
 ELEMENT     203      49
 ELEMENT     204      75
 ELEMENT     205      95
 REAL CONSTANT NUMBER=     36
 ELEMENT     206      53
 REAL CONSTANT NUMBER=     37
 ELEMENT     207      61
 REAL CONSTANT NUMBER=     38
 ELEMENT     208      65
 ELEMENT     209      71
 REAL CONSTANT NUMBER=     39
 ELEMENT     210      78
 REAL CONSTANT NUMBER=     40
 ELEMENT     211     105
 REAL CONSTANT NUMBER=     41
 ELEMENT     212     131
 ELEMENT     213     133
 REAL CONSTANT NUMBER=     42
 ELEMENT     214     132
 ELEMENT     215     134
 NODE      301  NCS=   0  X,Y,Z=      0.       565.00          0.
 NODE      302  NCS=   0  X,Y,Z=      0.       568.00          0.
 NODE      303  NCS=   0  X,Y,Z=      0.       571.00          0.
 NODE      304  NCS=   0  X,Y,Z=      0.       574.00          0.
 NODE      305  NCS=   0  X,Y,Z=      0.       577.83          0.
 NODE      306  NCS=   0  X,Y,Z=      0.       590.00          0.
 NODE      307  NCS=   0  X,Y,Z=      0.       595.50          0.
 NODE      308  NCS=   0  X,Y,Z=      0.       604.00          0.
 NODE      309  NCS=   0  X,Y,Z=      0.       609.50          0.
 NODE      310  NCS=   0  X,Y,Z=      0.       624.50          0.
 NODE      311  NCS=   0  X,Y,Z=      0.       629.58          0.
 NODE      312  NCS=   0  X,Y,Z=      0.       638.33          0.
 NODE      313  NCS=   0  X,Y,Z=      0.       647.00          0.
 ELEMENT TYPE SET TO     71
 MATERIAL NUMBER SET TO     71
 REAL CONSTANT NUMBER=     71
 ELEMENT     216     301     302       0
```



```
 ELEMENT     217     302     303       0
 ELEMENT     218     303     304       0
 REAL CONSTANT NUMBER=     72
 ELEMENT     219     304     305       0
 REAL CONSTANT NUMBER=     73
 ELEMENT     220     305     306       0
 REAL CONSTANT NUMBER=     74
 ELEMENT     221     306     307       0
 ELEMENT     222     307     308       0
 REAL CONSTANT NUMBER=     75
 ELEMENT     223     308     309       0
 ELEMENT     224     309     310       0
 REAL CONSTANT NUMBER=     76
 ELEMENT     225     310     311       0
 ELEMENT     226     311     312       0
 ELEMENT     227     312     313       0
 ELEMENT TYPE SET TO     72
 REAL CONSTANT NUMBER=     77
 ELEMENT     228     304
 REAL CONSTANT NUMBER=     78
 ELEMENT     229     306
 REAL CONSTANT NUMBER=     79
 ELEMENT     230     308
 REAL CONSTANT NUMBER=     80
 ELEMENT     231     310
 REAL CONSTANT NUMBER=     81
 ELEMENT     232     313

 COUPLED SET=      1  DIRECTION= UX     TOTAL NODES=      2
 NODES ADDED  =    304    1001
 MAXIMUM COUPLED SET NUMBER=      1

 COUPLED SET=      2  DIRECTION= UX     TOTAL NODES=      2
 NODES ADDED  =    309    1087
 MAXIMUM COUPLED SET NUMBER=      2

 COUPLED SET=      3  DIRECTION= UX     TOTAL NODES=      7
 NODES ADDED  =    312    1037    1039    1044    1045    1053    1079
 MAXIMUM COUPLED SET NUMBER=      3

 *** WARNING ***                         CP=       4.030   TIME= 15:51:49
 Coupled set 3 already contains node 312.
  Node 312 will not be added to the set.

 COUPLED SET=      3  DIRECTION= UX     TOTAL NODES=     13
 NODES ADDED  =   1124    1128    1052    1054    1057    1078
 MAXIMUM COUPLED SET NUMBER=      3

 *** WARNING ***                         CP=       4.050   TIME= 15:51:49
 Coupled set 3 already contains node 312.
  Node 312 will not be added to the set.

 COUPLED SET=      3  DIRECTION= UX     TOTAL NODES=     18
 NODES ADDED  =   1073    1061    1131    1133    1130
 MAXIMUM COUPLED SET NUMBER=      3

 COUPLED SET=      4  DIRECTION= UX     TOTAL NODES=      3
 NODES ADDED  =    306    1009    1010
 MAXIMUM COUPLED SET NUMBER=      4

 COUPLED SET=      5  DIRECTION= UX     TOTAL NODES=      3
 NODES ADDED  =    307    1015    1014
 MAXIMUM COUPLED SET NUMBER=      5

 COUPLED SET=      6  DIRECTION= UX     TOTAL NODES=      2
 NODES ADDED  =    308    1023
 MAXIMUM COUPLED SET NUMBER=      6

 COUPLED SET=      7  DIRECTION= UX     TOTAL NODES=      2
 NODES ADDED  =    310    1028
 MAXIMUM COUPLED SET NUMBER=      7

 GENERATE FROM SET     1  COUPLED SETS IN DIRECTIONS UY    UZ    ROTX ROTY ROTZ
```

```
 COUPLED SET=      8  DIRECTION= UY    TOTAL NODES=      2

 COUPLED SET=      9  DIRECTION= UZ    TOTAL NODES=      2

 COUPLED SET=     10  DIRECTION= ROTX  TOTAL NODES=      2

 COUPLED SET=     11  DIRECTION= ROTY  TOTAL NODES=      2

 COUPLED SET=     12  DIRECTION= ROTZ  TOTAL NODES=      2

 MAXIMUM COUPLED SET NUMBER=     12

 GENERATE FROM SET     2  COUPLED SETS IN DIRECTIONS UY   UZ   ROTX ROTY ROTZ

 COUPLED SET=     13  DIRECTION= UY    TOTAL NODES=      2

 COUPLED SET=     14  DIRECTION= UZ    TOTAL NODES=      2

 COUPLED SET=     15  DIRECTION= ROTX  TOTAL NODES=      2

 COUPLED SET=     16  DIRECTION= ROTY  TOTAL NODES=      2

 COUPLED SET=     17  DIRECTION= ROTZ  TOTAL NODES=      2

 MAXIMUM COUPLED SET NUMBER=     17

 GENERATE FROM SET     3  COUPLED SETS IN DIRECTIONS UY   UZ   ROTX ROTY ROTZ

 COUPLED SET=     18  DIRECTION= UY    TOTAL NODES=     18

 COUPLED SET=     19  DIRECTION= UZ    TOTAL NODES=     18

 COUPLED SET=     20  DIRECTION= ROTX  TOTAL NODES=     18

 COUPLED SET=     21  DIRECTION= ROTY  TOTAL NODES=     18

 COUPLED SET=     22  DIRECTION= ROTZ  TOTAL NODES=     18

 MAXIMUM COUPLED SET NUMBER=     22

 GENERATE FROM SET     4  COUPLED SETS IN DIRECTIONS UY   UZ   ROTX ROTY ROTZ

 COUPLED SET=     23  DIRECTION= UY    TOTAL NODES=      3

 COUPLED SET=     24  DIRECTION= UZ    TOTAL NODES=      3

 COUPLED SET=     25  DIRECTION= ROTX  TOTAL NODES=      3

 COUPLED SET=     26  DIRECTION= ROTY  TOTAL NODES=      3

 COUPLED SET=     27  DIRECTION= ROTZ  TOTAL NODES=      3

 MAXIMUM COUPLED SET NUMBER=     27

 GENERATE FROM SET     5  COUPLED SETS IN DIRECTIONS UY   UZ   ROTX ROTY ROTZ

 COUPLED SET=     28  DIRECTION= UY    TOTAL NODES=      3

 COUPLED SET=     29  DIRECTION= UZ    TOTAL NODES=      3

 COUPLED SET=     30  DIRECTION= ROTX  TOTAL NODES=      3

 COUPLED SET=     31  DIRECTION= ROTY  TOTAL NODES=      3

 COUPLED SET=     32  DIRECTION= ROTZ  TOTAL NODES=      3

 MAXIMUM COUPLED SET NUMBER=     32

 GENERATE FROM SET     6  COUPLED SETS IN DIRECTIONS UY   UZ   ROTX ROTY ROTZ

 COUPLED SET=     33  DIRECTION= UY    TOTAL NODES=      2

 COUPLED SET=     34  DIRECTION= UZ    TOTAL NODES=      2

 COUPLED SET=     35  DIRECTION= ROTX  TOTAL NODES=      2

 COUPLED SET=     36  DIRECTION= ROTY  TOTAL NODES=      2

 COUPLED SET=     37  DIRECTION= ROTZ  TOTAL NODES=      2

 MAXIMUM COUPLED SET NUMBER=     37

 GENERATE FROM SET     7  COUPLED SETS IN DIRECTIONS UY   UZ   ROTX ROTY ROTZ

 COUPLED SET=     38  DIRECTION= UY    TOTAL NODES=      2

 COUPLED SET=     39  DIRECTION= UZ    TOTAL NODES=      2

 COUPLED SET=     40  DIRECTION= ROTX  TOTAL NODES=      2

 COUPLED SET=     41  DIRECTION= ROTY  TOTAL NODES=      2

 COUPLED SET=     42  DIRECTION= ROTZ  TOTAL NODES=      2

 MAXIMUM COUPLED SET NUMBER=     42

 SPECIFIED CONSTRAINT UX   FOR SELECTED NODES      301 TO     301 BY       1
 REAL=              0.     IMAG=              0.
 ADDITIONAL DOFS=  UY    UZ    ROTX  ROTY  ROTZ

 USE LUMPED MASS MATRIX APPROXIMATION
```



```
 ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= cpmodal.db
  FOR POSSIBLE RESUME FROM THIS POINT


 ***** ROUTINE COMPLETED *****  CP =          4.750


 *****  ANSYS SOLUTION ROUTINE  *****

 PERFORM A MODAL ANALYSIS
  THIS WILL BE A NEW ANALYSIS


 USE HOUSEHOLDER METHOD
  EXTRACT   33 MODES
  PRINT     33 REDUCED MODES
  NORMALIZE THE MODE SHAPES TO THE MASS MATRIX

 MASTER DOF UX   FOR SELECTED NODES IN RANGE      1 TO    134 IN STEPS OF     1
 ADDITIONAL DOFS=   UY    UZ
 NUMBER OF MASTER DOF=   351

 *** WARNING ***                                CP=       4.780   TIME= 15:51:52
 Master DOF from the previous M command was applied only to defined and
  selected nodes.

 MASTER DOF UX   FOR SELECTED NODES IN RANGE  9001 TO   9024 IN STEPS OF     1
 ADDITIONAL DOFS=   UY    UZ
 NUMBER OF MASTER DOF=   423

 MASTER DOF UX   FOR SELECTED NODES IN RANGE   304 TO    310 IN STEPS OF     2
 ADDITIONAL DOFS=   UY    UZ
 NUMBER OF MASTER DOF=   435

 MASTER DOF UX   FOR SELECTED NODES IN RANGE   313 TO    313 IN STEPS OF     1
 ADDITIONAL DOFS=   UY    UZ
 NUMBER OF MASTER DOF=   438

 PRINT NSOL ITEMS WITH A FREQUENCY OF ALL
   FOR ALL APPLICABLE ENTITIES

 ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= cpmodal.db
  FOR POSSIBLE RESUME FROM THIS POINT

 *****  ANSYS SOLVE    COMMAND  ****
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
 40416-2          VERSION=SUN4SPARC     15:51:55  OCT 11, 1995 CP=       5.530
 FOR SUPPORT CALL                  PHONE                      FAX

  Modal analysis of coupled system of presurizer spray line & building

 **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**

                    S O L U T I O N   O P T I O N S

   PROBLEM DIMENSIONALITY. . . . . .3-D
   DEGREES OF FREEDOM. . . . . UX   UY   UZ   ROTX ROTY ROTZ
   ANALYSIS TYPE . . . . . .MODAL
      EXTRACTION METHOD. . . . . .REDUCED
   LUMPED MASS MATRICES. . . . . .ON
   NUMBER OF MODES TO EXTRACT. . . . . 33
   NUMBER OF REDUCED MODES TO PRINT. . . . . 33
   NUMBER OF MASTER DOF. . . . . 438

 *** WARNING ***                                CP=       9.240   TIME= 15:52:00
 Zero thickness element 216 may result in wrong thermal or bending
  stress.  Check real constant table 71.

 *** WARNING ***                                CP=       9.260   TIME= 15:52:00
 Zero thickness element 219 may result in wrong thermal or bending
  stress.  Check real constant table 72.

 *** WARNING ***                                CP=       9.270   TIME= 15:52:00
 Zero thickness element 220 may result in wrong thermal or bending
  stress.  Check real constant table 73.

 *** WARNING ***                                CP=       9.280   TIME= 15:52:00
 Zero thickness element 221 may result in wrong thermal or bending
  stress.  Check real constant table 74.

 *** WARNING ***                                CP=       9.280   TIME= 15:52:00
 Zero thickness element 223 may result in wrong thermal or bending
  stress.  Check real constant table 75.

 *** WARNING ***                                CP=       9.290   TIME= 15:52:00
 Zero thickness element 225 may result in wrong thermal or bending
  stress.  Check real constant table 76.

 *** NOTE ***                                   CP=       9.470   TIME= 15:52:00
 The step data was checked and warning messages were found.
  Please review output or errors file ( file.err ) for these warning
  messages.

                    L O A D   S T E P   O P T I O N S

   LOAD STEP NUMBER. . . . . .  1
```

***** CENTROID, MASS, AND MASS MOMENTS OF INERTIA *****

CALCULATIONS ASSUME ELEMENT MASS AT ELEMENT CENTROID

TOTAL MASS = 546.96

CENTROID		MOM. OF INERTIA ABOUT ORIGIN		MOM. OF INERTIA ABOUT CENTROID	
XC =	0.28898E-02	IXX =	0.1996E+09	IXX =	0.3574E+06
YC =	603.55	IYY =	57.03	IYY =	57.02
ZC =	0.27920E-02	IZZ =	0.1996E+09	IZZ =	0.3574E+06
		IXY =	-996.3	IXY =	-42.33
		IYZ =	-972.0	IYZ =	-50.29
		IZX =	-26.33	IZX =	-26.33

*** MASS SUMMARY BY ELEMENT TYPE ***

TYPE	MASS
1	0.668331E-01
2	0.3858467E-02
30	0.4447208E-01
72	546.848

Range of element maximum matrix coefficients in global coordinates
Maximum= 1.2300580835+11 at element 218.
Minimum= 0.42 at element 160.

*** WARNING *** CP= 11.790 TIME= 15:52:04
Coefficient ratio exceeds 1.0e6 - Check results.

*** ELEMENT MATRIX FORMULATION TIMES

TYPE	NUMDEN	ENAME	TOTAL CP	AVE CP
1	120	PIPE16	0.970	0.008
2	22	PIPE18	0.300	0.014
3	10	COMBIN14	0.040	0.004
4	12	COMBIN14	0.050	0.004
5	11	COMBIN14	0.050	0.005
6	3	COMBIN14	0.020	0.007
7	3	COMBIN14	0.030	0.010
8	3	COMBIN14	0.000	0.000
30	31	MASS21	0.150	0.005
71	12	BEAM4	0.120	0.010
72	5	MASS21	0.010	0.002

Time at end of element matrix formulation CP= 11.8000003.

Estimated number of active DOF= 916.
Maximum wavefront= 456.
Number of Master DOF= 438.

Time at end of matrix triangularization CP= 26.9199994.
Equation solver maximum pivot= 2.460716166E+11 at node 302 ROTZ.
Equation solver minimum pivot= 6.37003912 at node 104 ROTX.

***** EIGENVALUE (NATURAL FREQUENCY) SOLUTION *****

MODE	FREQUENCY (CYCLES/TIME)
1	1.31445606
2	1.58670844
3	2.80072174
4	3.42895056
5	3.60036981
6	3.88292183
7	4.25898803
8	5.68357881
9	7.46720236
10	8.06090281
11	8.27427586
12	10.1767726
13	10.6266172
14	12.0342786
15	13.0819413
16	13.4381762
17	14.7921300
18	16.0648866
19	16.5842610
20	17.7503475
21	18.2437343
22	19.6365295
23	20.8827084
24	22.1657909
25	23.0552531
26	23.4866472
27	23.5226594
28	24.1093776
29	25.3124640
30	26.0584004
31	26.2911982
32	26.4540976
33	26.8816597

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***** ANSYS - ENGINEERING ANALYSIS SYSTEM REVISION 5.0 *****

40416-2 VERSION=SUN4SPARC 15:55:12 OCT 11, 1995 CP= 111.040
FOR SUPPORT CALL PHONE FAX

Modal analysis of coupled system of presurizer spray line & building

ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY

***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION ***** FREQUENCY = 1.3145
LOAD STEP= 1 MODE = 1 CUM. ITER.= 1

NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

NODE	UX	UY	UZ	ROTX	ROTY	ROTZ
1	0.388898E-06	-0.115339E-08	0.331310E-06			
2	0.553389E-03	-0.169636E-02	0.537254E-03			
3	0.362592E-02	-0.134690E-01	0.103960E-01			
4	0.163259E-02	-0.390699E-01	0.787113E-01			
5	0.363595E-02	-0.544649E-01	0.150322			
6	0.775621E-02	-0.566642E-01	0.159622			
7	0.101449E-01	-0.586656E-01	0.148567			
9	-0.507795E-03	-0.587332E-01	-0.435078E-01			
10	-0.132625E-01	-0.587370E-01	0.604436E-02			
11	-0.357463	-0.587921E-01	1.42818			
12	-0.410045	-0.587984E-01	1.58613			
13	-0.428847	-0.397862E-01	1.88556			
14	-0.428848	-0.256559E-01	2.07068			
15	-0.428849	0.568221E-02	2.47924			
16	-0.428850	0.793436E-01	3.44872			
17	-0.506770	0.852510E-01	3.63567			
18	-0.854480	0.797029E-01	3.98339			
19	-1.35090	0.740659E-01	4.47984			
20	-2.67472	0.333166E-01	5.80372			
21	-2.84582	0.186376E-01	5.99856			
22	-0.296897	0.191957E-01	5.55199			
23	0.200763E-02	0.192351E-01	5.44389			
24	0.612085	0.193110E-01	5.20026			
25	4.56497	0.197748E-01	2.90704			
26	4.89557	0.198188E-01	2.64785			
27	7.11256	0.203104E-01	0.173924			
28	7.16239	0.201716E-01	0.469654E-02			
29	7.13951	0.204640E-01	-0.158848			
30	5.49560	0.209812E-01	0.231014E-01			
31	5.47622	0.209858E-01	0.260142E-01			
32	5.36140	0.183044E-01	0.330515E-01			
35	5.18647	0.125173E-01	0.354983E-01			
37	4.69869	-0.176580E-02	0.355175E-01			
38	0.239018	-0.545190E-01	0.357379E-01			
39	0.430430E-02	-0.519016E-01	0.357614E-01			
40	-0.223480	-0.217422E-01	0.359152E-01			
41	-0.291905E-01	-0.111287E-01	0.359815E-01			
43	-0.100660E-01	-0.323704E-02	0.186324E-01			
44	-0.100566E-01	-0.874881E-03	0.130770E-01			
45	-0.100316E-01	0.474904E-02	-0.585152E-04			

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***** ANSYS - ENGINEERING ANALYSIS SYSTEM REVISION 5.0 *****
40416-2 VERSION=SUN4SPARC 15:55:12 OCT 11, 1995 CP= 111.080
FOR SUPPORT CALL PHONE FAX

Modal analysis of coupled system of presurizer spray line & building

ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY

***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION ***** FREQUENCY = 1.3145
LOAD STEP= 1 MODE = 1 CUM. ITER.= 1

NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

NODE	UX	UY	UZ	ROTX	ROTY	ROTZ
46	-0.966001E-02	0.141508E-01	-0.283935E-01			
47	-0.964046E-02	0.123411E-01	-0.264016E-01			
48	-0.962394E-02	0.104954E-01	-0.245140E-01			
49	-0.959644E-02	0.744854E-02	-0.213877E-01			
50	-0.956887E-02	0.447601E-02	-0.183040E-01			
51	-0.956060E-02	0.360969E-02	-0.173949E-01			
52	-0.953032E-02	0.569186E-03	-0.141478E-01			
53	-0.939666E-02	-0.100685E-01	-0.251278E-02			
54	-0.919961E-02	-0.217016E-01	-0.410332E-03			
55	-0.919545E-02	-0.219437E-01	-0.645012E-03			
56	-0.744281E-02	-0.232110E-01	-0.217777E-02			
57	-0.635356E-02	-0.231704E-01	-0.217809E-02			
58	-0.550684E-02	-0.231092E-01	-0.217837E-02			
59	-0.437577E-02	-0.229766E-01	-0.217879E-02			
60	-0.339008E-02	-0.227994E-01	-0.217913E-02			
61	-0.252467E-02	-0.225824E-01	-0.217947E-02			
62	-0.245676E-02	-0.225620E-01	-0.217950E-02			
63	-0.159254E-02	-0.207341E-01	-0.140349E-02			
64	-0.159968E-02	-0.161791E-01	0.157030E-03			
65	-0.160295E-02	-0.140606E-01	0.631308E-03			
66	-0.160720E-02	-0.119410E-01	0.983260E-03			
67	-0.161082E-02	-0.101601E-01	0.119693E-02			
68	-0.161294E-02	-0.891500E-02	0.130589E-02			
69	-0.161489E-02	-0.769195E-02	0.136997E-02			
70	-0.161616E-02	-0.678255E-02	0.138216E-02			
71	-0.161898E-02	-0.481127E-02	0.130832E-02			
72	-0.162345E-02	-0.293210E-02	0.111085E-02			
73	-0.164333E-02	0.370334E-02	-0.214429E-02			
74	-0.164556E-02	0.423498E-02	-0.285366E-02			
75	-0.165003E-02	0.514868E-02	-0.436831E-02			

76	-0.165450E-02	0.584659E-02	-0.577551E-02
77	-0.165945E-02	0.611181E-02	-0.634606E-02
78	-0.165695E-02	0.646704E-02	-0.703313E-02
79	-0.165057E-02	0.924317E-02	-0.255740E-02
80	-0.164935E-02	0.945179E-02	-0.936077E-03
81	-0.164905E-02	0.949566E-02	-0.605827E-03
82	-0.193638E-02	0.874471E-02	-0.253073E-03
83	-0.444272E-03	0.820852E-03	-0.242779E-03
84	-0.330587E-03	0.612970E-03	-0.242311E-03
85	-0.255285E-03	0.473200E-03	-0.241976E-03

1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM REVISION 5.0 *****
40416-2 VERSION=SUN4SPARC 15:55:12 OCT 11, 1995 CP= 111.120
FOR SUPPORT CALL PHONE FAX

Modal analysis of coupled system of pressurizer spray line & building

ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY

***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION ***** FREQUENCY = 1.3145
LOAD STEP= 1 MODE = 1 CUM. ITER.= 1

NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

NODE	UX	UY	UZ	ROTX	ROTY	ROTZ
86	-0.229985E-04	0.244948E-04	-0.963165E-04			
87	0.244617E-05	-0.111644E-06	0.200120E-05			
91	-0.775599E-02	0.329403E-01	-0.239888E-01			
92	-0.650919E-03	0.123371E-01	-0.146986E-01			
93	0.814133E-03	0.100271E-01	-0.121088E-01			
94	0.521169E-03	0.853572E-02	-0.121024E-01			
95	0.275698E-03	0.685833E-02	-0.120925E-01			
96	0.139514E-03	0.596925E-02	-0.120627E-01			
97	0.132689E-03	0.594614E-02	-0.120822E-01			
98	-0.572970E-03	0.611494E-02	-0.115469E-01			
100	-0.969163E-03	0.611364E-02	-0.101687E-01			
101	-0.117421E-02	0.611278E-02	-0.907369E-02			
102	-0.142410E-02	0.611224E-02	-0.758072E-02			
103	-0.436755E-02	-0.216496E-01	-0.120830E-02			
104	-0.434704E-02	-0.183496E-01	-0.831093E-03			
105	-0.434041E-02	-0.172697E-01	-0.974434E-03			
106	-0.433378E-02	-0.161757E-01	-0.107883E-02			
107	-0.430837E-02	-0.118236E-01	0.637883E-03			
109	-0.358916E-02	-0.109088E-01	0.130710E-02			
111	-0.211155E-02	-0.101442E-01	0.130639E-02			
112	-0.182875E-02	-0.980870E-02	0.130610E-02			
113	-0.195537E-02	0.784580E-02	-0.907366E-02			
114	-0.248081E-02	0.856874E-02	-0.907365E-02			
115	-0.298522E-02	0.895191E-02	-0.907362E-02			
116	-0.369295E-02	0.904303E-02	-0.907358E-02			
118	-0.376386E-02	0.895458E-02	-0.895729E-02			
120	0.139313E-03	0.893715E-02	0.618737E-02			
122	0.153200E-03	0.787611E-02	0.720678E-02			
124	0.638067E-05	0.560457E-02	0.720679E-02			
125	-0.297183E-03	0.372359E-03	0.720685E-02			
127	-0.384149E-03	0.188398E-04	0.629393E-02			
129	-0.327839E-03	0.109336E-04	0.744176E-04			
130	0.476170E-05	-0.424655E-06	0.233607E-05			
131	-0.215993E-03	-0.140606E-01	0.237630E-04			
132	0.118898E-02	-0.140606E-01	-0.583601E-03			
133	-0.352010E-03	-0.481128E-02	0.366645E-03			
134	0.911775E-03	-0.481129E-02	-0.571771E-03			
304	0.388689E-06	-0.631049E-09	0.333095E-06			
306	0.109573E-05	0.110254E-07	0.132496E-05			
308	0.205973E-05	-0.502476E-07	0.275626E-05			

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***** ANSYS - ENGINEERING ANALYSIS SYSTEM REVISION 5.0 *****
40416-2 VERSION=SUN4SPARC 15:55:12 OCT 11, 1995 CP= 111.160
FOR SUPPORT CALL PHONE FAX

Modal analysis of coupled system of pressurizer spray line & building

ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY

***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION ***** FREQUENCY = 1.3145
LOAD STEP= 1 MODE = 1 CUM. ITER.= 1

NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

NODE	UX	UY	UZ	ROTX	ROTY	ROTZ
310	0.361747E-05	-0.279626E-06	0.271518E-05			
313	0.513751E-05	-0.425029E-06	0.239379E-05			
9001	0.420657E-02	-0.565899E-01	0.160809			
9002	0.572698E-02	-0.581141E-01	0.164578			
9003	0.396135E-01	-0.586883E-01	-0.399075E-01			
9004	0.413929E-01	-0.587109E-01	-0.147807			
9005	-0.989025E-01	-0.587555E-01	0.388026			
9006	-0.216419	-0.587719E-01	0.905563			
9007	-0.419391	-0.562792E-01	1.64473			
9008	-0.426285	-0.493609E-01	1.75329			
9009	-2.38061	0.188237E-01	6.01671			
9010	-1.51646	0.190098E-01	5.89931			
9011	1.94461	0.194656E-01	4.56894			
9012	3.29910	0.196203E-01	3.78677			
9013	5.96460	0.199827E-01	1.69195			
9014	6.71981	0.201486E-01	0.830376			
9015	6.81653	0.206365E-01	-0.230177			

9016	6.21935	0.208089E-01	-0.120299
9017	2.90108	-0.390922E-01	0.355991E-01
9018	1.35343	-0.548735E-01	0.356645E-01
9019	-0.327573	-0.580963E-01	0.358343E-01
9020	-0.984593E-02	0.233988E-01	-0.417214E-01
9021	-0.165376E-02	0.831473E-02	-0.700056E-02
9022	-0.186117E-02	0.403560E-02	-0.267927E-03
9023	-0.159442E-02	0.894587E-02	-0.412375E-02
9024	-0.114174E-03	0.525252E-05	-0.435538E-03

MAXIMUMS

NODE	28	17	9009	0	0	0
VALUE	7.16239	0.852510E-01	6.01671	0.	0.	0.

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***** ANSYS - ENGINEERING ANALYSIS SYSTEM REVISION 5.0 *****
40416-2 VERSION=SUN4SPARC 15:55:12 OCT 11, 1995 CP= 111.200
FOR SUPPORT CALL PHONE FAX

Modal analysis of coupled system of pressurizer spray line & building

ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY

***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION ***** FREQUENCY = 1.5867
LOAD STEP= 1 MODE = 2 CUM. ITER.= 2

NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

NODE	UX	UY	UZ	ROTX	ROTY	ROTZ
1	-0.461767E-06	-0.117048E-08	0.630250E-06			
2	-0.376071E-02	-0.217764E-02	-0.377122E-02			
3	-0.181653E-01	-0.135618E-01	-0.448334E-01			
4	-0.182337E-01	-0.169768E-01	-0.169444			
5	-0.182681E-01	-0.680845E-02	-0.228629			
6	-0.251025E-01	-0.923825E-03	-0.266099			
7	-0.301321E-01	-0.927553E-03	-0.281473			
9	0.798255E-02	-0.110990E-02	-0.127840			
10	0.740020E-01	-0.112042E-02	0.121454E-01			
11	1.36067	-0.127525E-03	3.49645			
12	1.42228	-0.129300E-02	3.88565			
13	1.43092	-0.557044E-02	4.14172			
14	1.43093	-0.282156E-02	4.23912			
15	1.43096	0.140255E-01	4.45160			
16	1.43102	0.106531	4.95433			
17	1.39198	0.109797	5.04836			
18	1.22091	0.752474E-01	5.21949			
19	0.983533	0.487166E-01	5.45696			
20	0.387305	0.121279E-01	6.05341			
21	0.283284	-0.136346E-02	6.18055			
22	0.913835E-01	-0.582615E-05	7.09924			
23	-0.769515E-02	0.900936E-04	7.04340			
24	-0.272918	0.274888E-03	6.87161			
25	-3.10417	0.140532E-02	4.21599			
26	-3.39896	0.151281E-02	3.86429			
27	-5.68150	0.271206E-02	0.266509			
28	-5.77323	0.286161E-02	0.783682E-02			
29	-5.81756	0.308729E-02	-0.243677			
30	-4.53018	0.435155E-02	-0.578505E-01			
31	-4.51349	0.436279E-02	-0.553080E-01			
32	-4.42247	0.234298E-02	-0.498655E-01			
35	-4.28962	-0.680570E-03	-0.484364E-01			
37	-3.91955	-0.444687E-02	-0.484056E-01			
38	-0.214212	-0.221221E-01	-0.480490E-01			
39	-0.404905E-02	-0.218662E-01	-0.480107E-01			
40	0.213128	-0.716216E-02	-0.477590E-01			
41	0.283029E-01	0.671417E-02	-0.476499E-01			
43	0.792526E-02	0.265530E-02	-0.285429E-01			
44	0.791738E-02	0.584987E-03	-0.221103E-01			
45	0.789650E-02	-0.435979E-02	-0.660760E-02			

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***** ANSYS - ENGINEERING ANALYSIS SYSTEM REVISION 5.0 *****
40416-2 VERSION=SUN4SPARC 15:55:12 OCT 11, 1995 CP= 111.240
FOR SUPPORT CALL PHONE FAX

Modal analysis of coupled system of pressurizer spray line & building

ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY

***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION ***** FREQUENCY = 1.5867
LOAD STEP= 1 MODE = 2 CUM. ITER.= 2

NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

NODE	UX	UY	UZ	ROTX	ROTY	ROTZ
46	0.758327E-02	-0.131223E-01	0.339013E-01			
47	0.756680E-02	-0.114775E-01	0.318670E-01			
48	0.755313E-02	-0.978598E-02	0.299243E-01			
49	0.753039E-02	-0.697365E-02	0.266834E-01			
50	0.750759E-02	-0.420687E-02	0.234553E-01			
51	0.750075E-02	-0.339625E-02	0.224971E-01			
52	0.747571E-02	-0.535261E-03	0.190461E-01			
53	0.736516E-02	0.972795E-02	0.604795E-02			
54	0.720217E-02	0.214755E-01	0.460294E-03			
55	0.719872E-02	0.216591E-01	0.601381E-03			
56	0.594856E-02	0.237645E-01	0.164543E-02			
57	0.514174E-02	0.242096E-01	0.164584E-02			
58	0.451683E-02	0.245761E-01	0.164621E-02			
59	0.367579E-02	0.250728E-01	0.164676E-02			

60	0.294254E-02	0.2551112E-01	0.164725E-02
61	0.229972E-02	0.2589578E-01	0.164775E-02
62	0.224941E-02	0.2592578E-01	0.164779E-02
63	0.161851E-02	0.2488527E-01	0.109012E-02
64	0.162273E-02	0.2042134E-01	0.165050E-04
65	0.162474E-02	0.1836028E-01	-0.314844E-03
66	0.162803E-02	0.1629208E-01	-0.583574E-03
67	0.163082E-02	0.1455198E-01	-0.763411E-03
68	0.163240E-02	0.1333498E-01	-0.862884E-03
69	0.163401E-02	0.1213428E-01	-0.929851E-03
70	0.163502E-02	0.1112408E-01	-0.962772E-03
71	0.163727E-02	0.9297278E-02	-0.921009E-03
72	0.164131E-02	0.7435188E-02	-0.777694E-03
73	0.165928E-02	0.7331848E-03	0.242438E-02
74	0.166130E-02	0.1766458E-03	0.318340E-02
75	0.166534E-02	-0.799289E-03	0.482378E-02
76	0.166938E-02	-0.1576808E-02	0.637450E-02
77	0.167446E-02	-0.1887558E-02	0.701425E-02
78	0.167164E-02	-0.2328508E-02	0.7793155E-02
79	0.166455E-02	-0.6966858E-02	0.281437E-02
80	0.166320E-02	-0.7553998E-02	0.985170E-03
81	0.166286E-02	-0.7687208E-02	0.611535E-03
82	0.189160E-02	-0.7146848E-02	0.209832E-03
83	0.4461218-03	-0.6825668-03	0.198284E-03
84	0.524321E-03	-0.5090938-03	0.197760E-03
85	0.243866E-03	-0.3916758-03	0.197384E-03

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***** ANSYS - ENGINEERING ANALYSIS SYSTEM REVISION 5.0 *****
40416-2 VERSION=SUN4SPARC 15:55:12 OCT 11, 1995 CP= 111.280
FOR SUPPORT CALL PHONE FAX

Modal analysis of coupled system of pressurizer spray line & building

ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY

***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION ***** FREQUENCY = 1.5867
LOAD STEP= 1 MODE = 2 CUM. ITER.= 2

NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

NODE	UX	UY	UZ	ROTX	ROTY	ROTZ
86	0.1570038-04	-0.1814468-04	0.891995E-04			
87	-0.3148058-05	-0.2609008-06	0.371554E-05			
91	0.584207E-02	-0.1134778E-01	0.283807E-01			
92	-0.704467E-03	-0.1134758E-01	0.154534E-01			
93	-0.1884528-02	-0.8279868-02	0.118938E-01			
94	-0.1422708-02	-0.6161558-02	0.118867E-01			
95	-0.9399288-03	-0.3666018-02	0.118758E-01			
96	-0.5865858-03	-0.2132978-02	0.118649E-01			
97	-0.5480298-03	-0.2068688-02	0.118643E-01			
98	0.3467678-03	-0.1889608-02	0.1762048-01			
100	0.8033558-03	-0.1938808-02	0.104726E-01			
101	0.1058998-02	-0.1844278-02	0.9495988-02			
102	0.1379638-02	-0.1688768-02	0.913718E-02			
103	0.3669878-02	0.2378598-01	0.926242E-03			
104	0.3655048-02	0.2078038-01	0.649535E-03			
105	0.3650318-02	0.1981768-01	0.758776E-03			
106	0.3645538-02	0.1884288-01	0.844038E-03			
107	0.3627208-02	0.1488168-01	-0.378439E-03			
108	0.3105098-02	0.1422418-01	-0.863779E-03			
111	0.2025358-02	0.1391048-01	-0.863258E-03			
112	0.1812748-02	0.1375728-01	-0.863039E-03			
113	0.2035048-02	-0.3543628-02	0.949570E-02			
114	0.2693808-02	-0.4345178-02	0.949550E-02			
115	0.3327668-02	-0.4877238-02	0.949529E-02			
116	0.4219048-02	-0.5240248-02	0.9494368-02			
118	0.4320438-02	-0.5242278-02	0.946202E-02			
120	-0.2054078-03	-0.5233828-02	-0.258239E-02			
122	-0.2041118-03	-0.4550868-02	-0.326561E-02			
124	-0.6182978-05	-0.3281568-02	-0.326583E-03			
125	0.4007178-03	-0.5180658-03	-0.326635E-03			
127	0.5098958-03	-0.1039518-04	-0.278916E-02			
129	0.4078818-03	-0.6546698-05	0.104731E-05			
130	-0.5844328-05	-0.1017845-05	0.401670E-05			
131	0.2700338-03	0.1836038-01	-0.175056E-03			
132	-0.1082238-02	0.1836038-01	-0.368791E-04			
133	0.3834258-03	0.9297308-02	-0.338947E-03			
134	-0.8669428-03	0.9297328-02	0.240037E-03			
304	-0.4598238-06	0.2091328-09	0.653834E-06			
306	-0.1121888-05	0.3397758-07	0.253888E-05			
308	-0.2732498-05	-0.1120438-06	0.329232E-05			

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***** ANSYS - ENGINEERING ANALYSIS SYSTEM REVISION 5.0 *****
40416-2 VERSION=SUN4SPARC 15:55:12 OCT 11, 1995 CP= 111.320
FOR SUPPORT CALL PHONE FAX

Modal analysis of coupled system of pressurizer spray line & building

ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY

***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION ***** FREQUENCY = 1.5867
LOAD STEP= 1 MODE = 2 CUM. ITER.= 2

NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

NODE	UX	UY	UZ	ROTX	ROTY	ROTZ
310	-0.4531148-05	-0.6666918-06	0.478601E-05			

313	-0.629735E-05	-0.101796E-05	0.409269E-05
9001	-0.190008E-01	-0.420790E-02	-0.238695
9002	-0.213493E-01	-0.190408E-02	-0.252109
9003	-0.135672	-0.988340E-03	-0.520323
9004	-0.175836	-0.104912E-02	-0.555700
9005	0.510991	-0.117203E-02	0.984951
9006	1.00074	-0.122365E-02	2.23587
9007	1.42818	-0.276039E-02	3.98668
9008	1.43054	-0.504996E-02	4.05937
9009	0.235661	-0.910828E-03	6.70469
9010	0.278230	-0.458329E-03	7.08188
9011	-1.05735	0.651656E-03	6.26647
9012	-2.04788	0.102856E-02	5.35541
9013	-4.41013	0.191240E-02	2.51986
9014	-5.19872	0.231217E-02	1.25648
9015	-5.62309	0.350868E-02	-0.363135
9016	-5.14673	0.393020E-02	-0.222757
9017	-2.49062	-0.137783E-01	-0.482869E-01
9018	-1.18546	-0.199355E-01	-0.481680E-01
9019	0.300927	-0.174400E-01	-0.478850E-01
9020	0.773990E-02	-0.211317E-01	0.453182E-01
9021	0.166810E-02	-0.501163E-02	0.779668E-02
9022	0.196777E-02	-0.331100E-02	0.204760E-03
9023	0.177945E-02	-0.523805E-02	0.536376E-02
9024	0.140108E-03	-0.378137E-05	0.181916E-03

MAXIMUMS

NODE	29	17	22	0	0	0
VALUE	-5.81756	0.109797	7.09924	0.	0.	0.

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***** ANSYS - ENGINEERING ANALYSIS SYSTEM REVISION 5.0 *****
40416-2 VERSION=SUN4SPARC 15:55:12 OCT 11, 1995 CP= 111.350
FOR SUPPORT CALL PHONE FAX

Modal analysis of coupled system of pressurizer spray line & building

ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY

***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION ***** FREQUENCY = 2.8007
LOAD STEP= 1 MODE = 3 CUM. ITER.= 3

NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

NODE	UX	UY	UZ	ROTX	ROTY	ROTZ
1	0.145571E-05	0.286667E-07	0.597086E-07			
2	-0.848173E-03	0.398319E-02	-0.790541E-03			
3	-0.182133E-02	0.568876E-01	-0.118950E-02			
4	-0.205454E-02	0.278365	0.277181E-01			
5	-0.217187E-02	0.441003	0.574121E-01			
6	-0.563830E-01	0.493423	0.658621E-01			
7	-0.906143E-01	0.493425	0.646533E-01			
9	0.246902E-01	0.493473	0.402381E-02			
10	0.293559	0.493472	0.115046E-02			
11	6.24503	0.493427	-0.194837			
12	6.81681	0.493418	-0.262227			
13	6.98967	0.329020	-0.215830			
14	6.98970	0.220712	-0.160972			
15	6.98975	0.593126E-02	-0.399963E-01			
16	6.98983	-0.380224	0.245233			
17	6.96696	-0.420260	0.301188			
18	6.86481	-0.432070	0.403377			
19	6.71737	-0.402638	0.550862			
20	6.30180	-0.104046	0.966525			
21	6.17629	-0.362986E-01	0.991248			
22	0.565892	-0.357007E-01	0.697357E-01			
23	-0.309465E-02	-0.356582E-01	0.480541E-01			
24	-1.10869	-0.355761E-01	-0.243184E-01			
25	-5.99327	-0.350713E-01	-0.226015			
26	-6.12975	-0.350231E-01	-0.223822			
27	-2.69356	-0.344821E-01	-0.327982E-01			
28	-1.71858	-0.344143E-01	-0.144458E-04			
29	-0.100247	-0.343116E-01	0.465833E-01			
30	9.69629	-0.337333E-01	0.968384E-01			
31	9.77538	-0.337282E-01	0.947970E-01			
32	9.87661	-0.312220E-01	0.888998E-01			
35	9.69908	-0.245519E-01	0.862070E-01			
37	8.85896	-0.202007E-02	0.862085E-01			
38	0.486759	0.136275	0.862167E-01			
39	0.963282E-02	0.136803	0.862170E-01			
40	-0.465791	0.848635E-01	0.862136E-01			
41	-0.592824E-01	0.444910E-01	0.862105E-01			
43	-0.175429E-01	0.125058E-01	0.478666E-01			
44	-0.175240E-01	0.374087E-02	0.353520E-01			
45	-0.174740E-01	-0.169099E-01	0.555834E-02			

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***** ANSYS - ENGINEERING ANALYSIS SYSTEM REVISION 5.0 *****
40416-2 VERSION=SUN4SPARC 15:55:13 OCT 11, 1995 CP= 111.400
FOR SUPPORT CALL PHONE FAX

Modal analysis of coupled system of pressurizer spray line & building

ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY

***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION ***** FREQUENCY = 2.8007
LOAD STEP= 1 MODE = 3 CUM. ITER.= 3

NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

NODE	UX	UY	UZ	ROTX	ROTY	ROTZ
46	-0.167231E-01	-0.469520E-01	-0.639884E-01			
47	-0.166836E-01	-0.417932E-01	-0.601412E-01			
48	-0.166344E-01	-0.364584E-01	-0.565132E-01			
49	-0.166058E-01	-0.269400E-01	-0.503293E-01			
50	-0.165570E-01	-0.168316E-01	-0.440292E-01			
51	-0.165423E-01	-0.137394E-01	-0.421361E-01			
52	-0.164887E-01	-0.236456E-02	-0.352451E-01			
53	-0.162519E-01	0.451351E-01	-0.881213E-02			
54	-0.159027E-01	0.109677	-0.136128E-02			
55	-0.158953E-01	0.110995	-0.184977E-02			
56	-0.120681E-01	0.117846	-0.514396E-02			
57	-0.958466E-02	0.118176	-0.514527E-02			
58	-0.748895E-02	0.118522	-0.514643E-02			
59	-0.455521E-02	0.119133	-0.514817E-02			
60	-0.185967E-02	0.119560	-0.514968E-02			
61	0.609314E-03	0.120708	-0.515119E-02			
62	0.606296E-03	0.120786	-0.515131E-02			
63	0.334379E-02	0.115842	-0.289547E-02			
64	0.334460E-02	0.974979E-01	0.138507E-02			
65	0.334525E-02	0.891538E-01	0.261187E-02			
66	0.333634E-02	0.806890E-01	0.349881E-02			
67	0.332877E-02	0.733596E-01	0.401469E-02			
68	0.332442E-02	0.681270E-01	0.426189E-02			
69	0.332111E-02	0.624263E-01	0.438162E-02			
70	0.331899E-02	0.588240E-01	0.436852E-02			
71	0.331429E-02	0.498908E-01	0.404936E-02			
72	0.329834E-02	0.408002E-01	0.337272E-02			
73	0.322740E-02	-0.106883E-02	-0.447575E-02			
74	0.321944E-02	-0.576711E-03	-0.593761E-02			
75	0.320348E-02	-0.150293E-01	-0.890285E-02			
76	0.318751E-02	-0.240773E-01	-0.113905E-01			
77	0.317549E-02	-0.284271E-01	-0.122504E-01			
78	0.317877E-02	-0.350294E-01	-0.131326E-01			
79	0.318796E-02	-0.575410E-01	-0.263735E-02			
80	0.318969E-02	-0.537036E-01	0.477336E-03			
81	0.319012E-02	-0.526921E-01	0.119446E-02			
82	0.244682E-02	-0.489676E-01	0.203519E-02			
83	0.624756E-03	-0.564385E-02	0.205119E-02			
84	0.635400E-03	-0.420170E-02	0.205192E-02			
85	0.635880E-03	-0.324603E-02	0.205244E-02			

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***** ANSYS - ENGINEERING ANALYSIS SYSTEM REVISION 5.0 *****
40416-2 VERSION=SUN4SPARC 15:55:13 OCT 11, 1995 CP= 111.440
FOR SUPPORT CALL PHONE FAX

Modal analysis of coupled system of pressurizer spray line & building

ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY

***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION ***** FREQUENCY = 2.8007
LOAD STEP= 1 MODE = 3 CUM. ITER.= 3

NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

NODE	UX	UY	UZ	ROTX	ROTY	ROTZ
86	0.208879E-03	-0.207279E-03	0.602115E-03			
87	0.766706E-05	-0.573398E-07	0.203157E-06			
91	-0.215085E-01	-0.417696E-01	-0.566350E-01			
92	-0.372949E-01	-0.417560E-01	-0.451875E-01			
93	-0.416868E-01	-0.424913E-01	-0.435101E-01			
94	-0.402072E-01	-0.415994E-01	-0.434856E-01			
95	-0.373804E-01	-0.386182E-01	-0.434733E-01			
96	-0.343626E-01	-0.338553E-01	-0.434508E-01			
97	-0.342154E-01	-0.335719E-01	-0.434497E-01			
98	-0.248208E-01	-0.284446E-01	-0.377170E-01			
100	-0.156117E-01	-0.284389E-01	-0.297646E-01			
101	-0.958415E-02	-0.284352E-01	-0.243108E-01			
102	-0.231276E-02	-0.284307E-01	-0.175162E-01			
103	-0.453129E-02	0.112724	-0.362942E-02			
104	-0.447156E-02	0.961930E-01	-0.192386E-02			
105	-0.445226E-02	0.905925E-01	-0.238325E-02			
106	-0.443295E-02	0.848414E-01	-0.270485E-02			
107	-0.435891E-02	0.623517E-01	0.232294E-02			
109	-0.227350E-02	0.606653E-01	0.426531E-02			
111	0.198506E-02	0.634672E-01	0.426332E-02			
112	0.278003E-02	0.647273E-01	0.426248E-02			
113	-0.899434E-02	-0.184804E-01	-0.243084E-01			
114	-0.826272E-02	-0.124432E-01	-0.243[illegible]E-01			
115	-0.733296E-02	-0.727907E-02	-0.[illegible]049E-01			
116	-0.572242E-02	-0.133584E-02	0.243022E-01			
118	-0.673265E-02	0.169537E-01	-0.256091E-01			
120	-0.361544E-02	0.177919E-03	-0.927766E-02			
122	-0.185547E-02	-0.342547E-03	-0.866011E-02			
124	-0.106245E-03	-0.859475E-03	-0.865821E-02			
125	0.392536E-02	-0.433334E-03	-0.865362E-02			
127	0.430692E-02	-0.954898E-05	-0.816260E-02			
129	0.104031E-02	-0.575671E-05	-0.375406E-03			
130	0.138382E-04	-0.308458E-06	0.408044E-06			
131	-0.202791E-02	0.891545E-01	0.267506E-03			
132	-0.742014E-02	0.891552E-01	-0.207465E-02			
133	-0.243579E-02	0.498912E-01	0.493417E-03			
134	-0.820844E-02	0.498916E-01	-0.305839E-02			
304	0.146102E-05	0.278716E-07	0.596976E-07			
306	0.475187E-05	0.527641E-07	0.189827E-06			
308	0.662235E-05	0.121628E-06	0.199909E-06			

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***** ANSYS - ENGINEERING ANALYSIS SYSTEM REVISION 5.0 *****
40416-2 VERSION=SUN4SPARC 15:55:13 OCT 11, 1995 CP= 111.480
FOR SUPPORT CALL PHONE FAX

Modal analysis of coupled system of pressurizer spray line & building

ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY

***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION ***** FREQUENCY = 2.8007
LOAD STEP= 1 MODE = 3 CUM. ITER.= 3

NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

NODE	UX	UY	UZ	ROTX	ROTY	ROTZ
310	0.108067E-04	-0.191754E-06	0.302727E-06			
313	0.148837E-04	-0.308564E-06	0.442266E-06			
9001	-0.911995E-02	0.466544	0.621685E-01			
9002	-0.286687E-01	0.486004	0.653449E-01			
9003	-0.631607	0.493449	0.441080E-01			
9004	-0.766511	0.493465	0.230798E-01			
9005	2.07868	0.493463	-0.167360E-01			
9006	4.23621	0.493448	-0.691102E-01			
9007	6.90648	0.469528	-0.265762			
9008	6.96822	0.408157	-0.249181			
9009	5.01764	-0.361000E-01	0.619222			
9010	3.06928	-0.359007E-01	0.323366			
9011	-3.25140	-0.354084E-01	-0.138295			
9012	-4.97041	-0.352400E-01	-0.205446			
9013	-5.97910	-0.348434E-01	-0.188204			
9014	-4.79371	-0.346630E-01	-0.119074			
9015	3.20597	-0.341195E-01	0.113451			
9016	6.56533	-0.339207E-01	0.136236			
9017	5.63855	0.705626E-01	0.862124E-01			
9018	3.70100	0.116989	0.862151E-01			
9019	-0.673785	0.121139	0.862158E-01			
9020	-0.170986E-01	-0.798086E-01	-0.900279E-01			
9021	0.318338E-02	-0.594582E-01	-0.115871E-01			
9022	0.438995E-03	-0.270079E-01	0.204320E-02			
9023	-0.123522E-01	0.173729E-03	-0.231650E-01			
9024	0.186341E-03	-0.303171E-05	0.727905E-03			

MAXIMUMS

NODE	32	9	21	0	[illegible]	0
VALUE	9.87661	0.493473	0.991248	0.	0.	0.

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***** ANSYS - ENGINEERING ANALYSIS SYSTEM REVISION 5.0 *****
40416-2 VERSION=SUN4SPARC 15:55:13 OCT 11, 1995 CP= 111.510
FOR SUPPORT CALL PHONE FAX

Modal analysis of coupled system of pressurizer spray line & building

ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY

***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION ***** FREQUENCY = 3.4306
LOAD STEP= 1 MODE = 4 CUM. ITER.= 4

NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

NODE	UX	UY	UZ	ROTX	ROTY	ROTZ
1	0.223511E-06	0.226487E-07	0.256208E-06			
2	0.709367E-02	-0.348419E-03	0.715693E-02			
3	0.360066E-01	-0.182686E-01	0.913993E-01			
4	0.359766E-01	-0.100642	0.372310			
5	0.359613E-01	-0.137591	0.520926			
6	0.425023E-01	-0.145113	0.600406			
7	0.454462E-01	-0.145119	0.627389			
9	0.405316E-02	-0.145404	0.235196			
10	0.125624E-01	-0.145419	[illegible]718E-01			
11	-0.271807E-02	-0.145623	-5.75615			
12	-0.855937E-01	-0.145644	-6.26169			
13	-0.123399	-0.104696	-6.59621			
14	-0.123392	-0.706571E-01	-6.73480			
15	-0.123378	0.113235E-01	-7.04038			
16	-0.123342	0.240163	-7.75853			
17	-0.664336E-01	0.293139	-7.89526			
18	0.185304	0.383634	-8.14699			
19	0.539069	0.458277	-8.50074			
20	1.45029	0.284971	-9.41185			
21	1.49639	0.200051	-9.32187			
22	0.433701E-01	0.200990	3.48151			
23	-0.119439E-03	0.201054	4.40571			
24	-0.672125E-01	0.201175	6.02439			
25	-0.845244E-01	0.201899	9.09921			
26	-0.605573E-01	0.201965	8.72195			
27	0.249066	0.202686	0.829358			
28	0.274002	0.202773	0.283296E-01			
29	0.299276	0.202901	-0.798915			
30	0.200717	0.203590	-0.117871			
31	0.198885	0.203596	-0.982426E-01			
32	0.194548	0.183036	-0.476590E-01			
35	0.193075	0.135871	-0.279527E-01			
37	0.191055	-0.249523E-02	-0.278729E-01			
38	0.127362E-01	-0.750951	-0.269488E-01			
39	0.773471E-03	-0.736326	-0.268498E-01			
40	0.119858E-01	-0.304165	-0.261974E-01			
41	0.909388E-03	-0.350771E-01	-0.259147E-01			
43	-0.433758E-02	-0.256740E-02	-0.199587E-01			
44	-0.433614E-02	-0.282325E-02	-0.174217E-01			

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    45   -0.433231E-02   -0.372810E-02   -0.107453E-01
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 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2              VERSION=SUN4SPARC      15:55:13  OCT 11, 1995 CP=     111.560
FOR SUPPORT CALL                    PHONE                        FAX

 Modal analysis of coupled system of pressurizer spray line & building

 **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


 ***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION *****   FREQUENCY =    3.4300
    LOAD STEP=      1  MODE =    4   CUM. ITER.=      4

 NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

   NODE        UX              UY              UZ              ROTX            ROTY            ROTZ
     46   -0.427465E-02   -0.156883E-01    0.321150E-01
     47   -0.427161E-02   -0.144725E-01    0.321140E-01
     48   -0.426887E-02   -0.129530E-01    0.321760E-01
     49   -0.426430E-02   -0.980690E-02    0.318165E-01
     50   -0.425969E-02   -0.578496E-02    0.311024E-01
     51   -0.425830E-02   -0.439404E-02    0.308233E-01
     52   -0.425324E-02    0.149820E-02    0.295605E-01
     53   -0.423082E-02    0.416923E-01    0.203480E-01
     54   -0.419768E-02    0.122321        0.166475E-02
     55   -0.419698E-02    0.124044        0.128055E-02
     56   -0.225735E-02    0.148028       -0.623168E-03
     57   -0.108899E-02    0.157279       -0.620195E-03
     58   -0.662133E-04    0.165498       -0.617539E-03
     59    0.144502E-02    0.177718       -0.613564E-03
     60    0.293198E-02    0.189819       -0.609487E-03
     61    0.442150E-02    0.201787       -0.605410E-03
     62    0.454850E-02    0.202786       -0.605067E-03
     63    0.447864E-02    0.210328        0.137346E-02
     64    0.447205E-02    0.190097        0.684153E-02
     65    0.446904E-02    0.180771        0.858518E-02
     66    0.446743E-02    0.171161        0.982896E-02
     67    0.446618E-02    0.162853        0.103182E-01
     68    0.446570E-02    0.156913        0.104295E-01
     69    0.446666E-02    0.150820        0.103433E-01
     70    0.446713E-02    0.146217        0.101445E-01
     71    0.446818E-02    0.135869        0.934092E-02
     72    0.446787E-02    0.125340        0.811691E-02
     73    0.446648E-02    0.799333E-01    0.841216E-03
     74    0.446631E-02    0.753412E-01    0.151971E-03
     75    0.446597E-02    0.666624E-01   -0.103125E-02
     76    0.446560E-02    0.588167E-01   -0.194556E-02
     77    0.446371E-02    0.553265E-01   -0.229661E-02
     78    0.446501E-02    0.500097E-01   -0.276728E-02
     79    0.446331E-02    0.102532E-01   -0.195121E-02
     80    0.446293E-02    0.733294E-02   -0.801763E-03
     81    0.446284E-02    0.670570E-02   -0.498059E-03
     82    0.602175E-02    0.429578E-02   -0.621443E-04
     83    0.587071E-03   -0.458577E-03   -0.593115E-04
     84    0.425679E-03   -0.341045E-03   -0.592037E-04
     85    0.317594E-03   -0.257860E-03   -0.591121E-04
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 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2              VERSION=SUN4SPARC      15:55:13  OCT 11, 1995 CP=     111.600
FOR SUPPORT CALL                    PHONE                        FAX

 Modal analysis of coupled system of pressurizer spray line & building

 **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


 ***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION *****   FREQUENCY =    3.4300
    LOAD STEP=      1  MODE =    4   CUM. ITER.=      4

 NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

   NODE        UX              UY              UZ              ROTX            ROTY            ROTZ
     86    0.182693E-04   -0.188762E-04   -0.206124E-04
     87    0.597831E-06    0.101970E-07    0.466113E-05
     91   -0.572561E-02   -0.144726E-01    0.182817E-01
     92   -0.121913E-01   -0.144729E-01   -0.306390E-01
     93   -0.148831E-01   -0.205576E-03   -0.453537E-01
     94   -0.149673E-01    0.113376E-01   -0.453544E-01
     95   -0.151160E-01    0.281759E-01   -0.453554E-01
     96   -0.153020E-01    0.438978E-01   -0.453561E-01
     97   -0.153127E-01    0.446602E-01   -0.453561E-01
     98   -0.113670E-01    0.553195E-01   -0.351792E-01
    100   -0.605276E-02    0.553191E-01   -0.241501E-01
    101   -0.236461E-02    0.553189E-01   -0.172766E-01
    102    0.244561E-02    0.553231E-01   -0.892824E-02
    103    0.145984E-02    0.130779        0.882727E-03
    104    0.149684E-02    0.156676        0.264535E-02
    105    0.150877E-02    0.152325        0.305293E-02
    106    0.152073E-02    0.147769        0.358791E-02
    107    0.156647E-02    0.126166        0.906424E-02
    109    0.300054E-02    0.130199        0.104311E-01
    111    0.576832E-02    0.140870        0.104302E-01
    112    0.624162E-02    0.145302        0.104298E-01
    113   -0.264849E-02    0.654738E-01   -0.172792E-01
    114   -0.264018E-02    0.694142E-01   -0.172809E-01
    115   -0.249754E-02    0.713077E-01   -0.172827E-01
    116   -0.211726E-02    0.716069E-01   -0.172851E-01
    118   -0.300853E-02    0.712456E-01   -0.168611E-01
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    120   -0.192185E-02    0.710934E-01    0.609224E-01
    122   -0.988350E-03    0.693490E-01    0.683530E-01
    124   -0.731320E-04    0.675151E-01    0.683512E-01
    125    0.200047E-02    0.833853E-02    0.683464E-01
    127    0.217613E-02    0.173079E-03    0.604248E-01
    129    0.432991E-03    0.101904E-03    0.104764E-02
    130    0.156903E-05   -0.350799E-06    0.823240E-05
    131    0.307359E-03    0.180773       -0.211143E-02
    132   -0.585242E-02    0.180775       -0.129490E-01
    133   -0.304266E-03    0.135871       -0.203147E-03
    134   -0.708048E-02    0.135873       -0.975052E-02
    304    0.324238E-06    0.249972E-07    0.249046E-06
    306    0.691710E-06    0.121500E-06   -0.550192E-06
    308    0.896507E-06    0.848993E-07    0.287756E-05
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 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2              VERSION=SUN4SPARC      15:55:13  OCT 11, 1995 CP=     111.640
FOR SUPPORT CALL                    PHONE                        FAX

 Modal analysis of coupled system of pressurizer spray line & building

 **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


 ***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION *****   FREQUENCY =    3.4300
    LOAD STEP=      1  MODE =    4   CUM. ITER.=      4

 NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

   NODE        UX              UY              UZ              ROTX            ROTY            ROTZ
    310    0.179115E-05   -0.183940E-06    0.972483E-05
    313    0.167723E-05   -0.352199E-06    0.866532E-05
   9001    0.370373E-01   -0.141698        0.545358
   9002    0.395883E-01   -0.144295        0.573954
   9003    0.459174E-01   -0.145218        1.03688
   9004    0.723642E-02   -0.145313        1.05989
   9005    0.750737E-01   -0.145490       -1.77456
   9006    0.101536       -0.145558       -3.87527
   9007   -0.103407       -0.140768       -6.36349
   9008   -0.117698       -0.126360       -6.48386
   9009    0.803232        0.200370       -5.91664
   9010    0.337374        0.200683       -1.29848
   9011   -0.141004        0.201421        8.47533
   9012   -0.141217        0.201662        9.53131
   9013    0.450524E-01    0.202210        6.52734
   9014    0.156959        0.202450        3.60820
   9015    0.305830        0.203136       -1.30045
   9016    0.266290        0.203366       -0.883639
   9017    0.148218       -0.428989       -0.275654E-01
   9018    0.761326E-01   -0.680566       -0.272574E-01
   9019   -0.272065E-02   -0.578630       -0.265239E-01
   9020   -0.430351E-02   -0.141259E-01    0.221181E-01
   9021    0.646421E-02    0.233107E-01   -0.381890E-02
   9022    0.300311E-02   -0.776065E-03   -0.607386E-04
   9023   -0.699416E-02    0.711702E-01    0.133211E-02
   9024    0.507876E-04    0.507601E-04   -0.439227E-02

 MAXIMUMS
 NODE          21              38              9012             0               0               0
 VALUE      1.49639        -0.750951         9.53131           0.              0.              0.
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2              VERSION=SUN4SPARC      15:55:13  OCT 11, 1995 CP=     111.670
FOR SUPPORT CALL                    PHONE                        FAX

 Modal analysis of coupled system of pressurizer spray line & building

 **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


 ***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION *****   FREQUENCY =    3.6004
    LOAD STEP=      1  MODE =    5   CUM. ITER.=      5

 NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

   NODE        UX              UY              UZ              ROTX            ROTY            ROTZ
      1    0.263470E-05   -0.274939E-07   -0.130061E-06
      2    0.669776E-03    0.522159E-02    0.758618E-03
      3    0.704546E-02    0.737345E-01    0.229436E-01
      4    0.672042E-02    0.361810        0.148830
      5    0.655684E-02    0.573071        0.245632
      6   -0.661684E-01    0.647187        0.278161
      7   -0.112292        0.647188        0.279269
      9    0.360704E-01    0.647157        0.456638E-01
     10    0.397363        0.647149       -0.227215E-02
     11    8.31219         0.646936       -1.10964
     12    9.06126         0.646904       -1.25619
     13    9.28841         0.430439       -1.17546
     14    9.28844         0.267291       -1.07786
     15    9.28848         0.264584E-02   -0.862449
     16    9.28850        -0.508648       -0.349721
     17    9.24707        -0.563141       -0.250370
     18    9.06153        -0.590131       -0.648272E-01
     19    8.79548        -0.564546        0.201194
     20    8.09350        -0.134559        0.903046
     21    7.85631        -0.225539E-01    0.970224
     22    0.281933       -0.225550E-01   -0.863647E-01
     23    0.357750E-01   -0.225548E-01   -0.151216
     24   -0.128412       -0.225543E-01   -0.264822
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     25      3.78191        -0.225479E-01   -0.514745
     26      4.23760        -0.225470E-01   -0.495687
     27      5.00240        -0.225345E-01   -0.466967E-01
     28      4.37956        -0.225326E-01   -0.176086E-02
     29      3.14728        -0.225293E-01    0.421409E-01
     30     -7.00062        -0.225076E-01   -0.568266E-01
     31     -7.09214        -0.225074E-01   -0.587697E-01
     32     -7.26057        -0.204052E-01   -0.638931E-01
     33     -7.17914        -0.354006E-01   -0.659647E-01
     37     -6.59825        -0.312633E-04   -0.659689E-01
     38    -0.182752         0.921438E-01   -0.660047E-01
     39    -0.813044E-02     0.898996E-01   -0.660077E-01
     40     0.366352         0.153563E-01   -0.660212E-01
     41     0.482180E-01    -0.418052E-01   -0.660250E-01
     43     0.159503E-01    -0.145391E-01   -0.365077E-01
     44     0.159352E-01    -0.264526E-02   -0.269545E-01
     45     0.158953E-01     0.259616E-01   -0.434473E-02
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2            VERSION=SUN4SPARC      15:55:13  OCT 11, 1995 CP=     111.710
FOR SUPPORT CALL                  PHONE                    FAX

 Modal analysis of coupled system of presurizer spray line & building

 **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


 ***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION *****   FREQUENCY =    3.6004
    LOAD STEP=      1  MODE =    5   CUM. ITER.=      5

 NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

   NODE        UX              UY              UZ              ROTX            ROTY            ROTZ
     46     0.152951E-01     0.900139E-01     0.358719E-01
     47     0.152635E-01     0.607420E-01     0.323916E-01
     48     0.152406E-01     0.707662E-01     0.291436E-01
     49     0.152025E-01     0.522958E-01     0.237315E-01
     50     0.151641E-01     0.314042E-01     0.183732E-01
     51     0.151526E-01     0.246742E-01     0.167941E-01
     52     0.151105E-01    -0.184224E-02     0.111726E-01
     53     0.149243E-01    -0.149626        -0.769790E-02
     54     0.148485E-01    -0.412675        -0.730956E-04
     55     0.146437E-01    -0.418452         0.755283E-03
     56     0.896625E-02    -0.465348         0.580039E-02
     57     0.518656E-02    -0.477220         0.579888E-02
     58     0.183637E-02    -0.487855         0.579754E-02
     59    -0.313815E-02    -0.503611         0.579552E-02
     60    -0.797012E-02    -0.519779         0.579310E-02
     61    -0.126429E-01    -0.535733         0.579068E-02
     62    -0.130268E-01    -0.537073         0.579048E-02
     63    -0.183487E-01    -0.532772         0.783078E-03
     64    -0.183627E-01    -0.463344        -0.103906E-01
     65    -0.183690E-01    -0.431606        -0.137991E-01
     66    -0.183647E-01    -0.399226        -0.159852E-01
     67    -0.183611E-01    -0.371231        -0.170111E-01
     68    -0.183598E-01    -0.351276        -0.173383E-01
     69    -0.183623E-01    -0.331033        -0.172994E-01
     70    -0.183641E-01    -0.315758        -0.170016E-01
     71    -0.183679E-01    -0.281648        -0.156281E-01
     72    -0.183548E-01    -0.247172        -0.134212E-01
     73    -0.182962E-01    -0.981737E-01     0.277373E-02
     74    -0.182896E-01    -0.829150E-01     0.491908E-02
     75    -0.182763E-01    -0.538361E-01     0.899334E-02
     76    -0.182629E-01    -0.271324E-01     0.123121E-01
     77    -0.182506E-01    -0.150029E-01     0.135067E-01
     78    -0.182550E-01    -0.324388E-02     0.148771E-01
     79    -0.18.584E-01     0.103034         0.196855E-02
     80    -0.182589E-01     0.102651        -0.100082E-02
     81    -0.182591E-01     0.102300        -0.219833E-02
     82    -0.167280E-01     0.976133E-01    -0.378431E-02
     83    -0.153292E-02     0.115835E-01    -0.380065E-02
     84    -0.211130E-02     0.857292E-02    -0.380138E-02
     85    -0.181861E-02     0.656991E-02    -0.380191E-02
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2            VERSION=SUN4SPARC      15:55:13  OCT 11, 1995 CP=     111.750
FOR SUPPORT CALL                  PHONE                    FAX

 Modal analysis of coupled system of presurizer spray line & building

 **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


 ***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION *****   FREQUENCY =    3.6004
    LOAD STEP=      1  MODE =    5   CUM. ITER.=      5

 NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

   NODE        UX              UY              UZ              ROTX            ROTY            ROTZ
     86    -0.343186E-03     0.364037E-03    -0.114596E-02
     87     0.105104E-04    -0.2735737E-06   -0.105682E-05
     91     0.246952E-01     0.807332E-01     0.422407E-01
     92     0.599528E-01     0.807000E-01     0.806244E-01
     93     0.720934E-01     0.653834E-01     0.951349E-01
     94     0.711742E-01     0.510098E-01     0.951231E-01
     95     0.693025E-01     0.279680E-01     0.951050E-01
     96     0.672802E-01     0.421804E-02     0.950862E-01
     97     0.671829E-01     0.301182E-02     0.950853E-01
     98     0.491205E-01    -0.149526E-01     0.771884E-01
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    100     0.281079E-01    -0.149664E-01     0.562714E-01
    101     0.139477E-01    -0.149754E-01     0.428014E-01
    102    -0.390866E-02    -0.149907E-01     0.263604E-01
    103    -0.318479E-02    -0.479717         0.130589E-02
    104    -0.330121E-02    -0.425379        -0.108679E-02
    105    -0.333881E-02    -0.407760        -0.902425E-03
    106    -0.337639E-02    -0.389419        -0.105912E-02
    107    -0.352035E-02    -0.313991        -0.134034E-01
    109    -0.771299E-02    -0.310920        -0.173442E-01
    111    -0.160656E-01    -0.326765        -0.173408E-01
    112    -0.175482E-01    -0.333490        -0.173393E-01
    113     0.136229E-01    -0.372634E-01     0.428010E-01
    114     0.126403E-01    -0.447684E-01     0.428008E-01
    115     0.111783E-01    -0.572477E-01     0.428002E-01
    116     0.843039E-02    -0.653386E-01     0.427994E-01
    118     0.113654E-01    -0.670264E-01     0.441830E-01
    120     0.789872E-02    -0.668930E-01    -0.459196E-01
    122     0.415107E-02    -0.590123E-01    -0.536200E-01
    124     0.292642E-03    -0.435449E-01    -0.536206E-01
    125    -0.841553E-02    -0.730345E-02    -0.536217E-01
    127    -0.922514E-02    -0.153608E-03    -0.467826E-01
    129    -0.213325E-02    -0.908766E-04    -0.519946E-03
    130     0.861170E-05    -0.749619E-06    -0.178777E-05
    131     0.236860E-02    -0.431612         0.211741E-02
    132     0.231311E-01    -0.431617         0.180558E-01
    133     0.376103E-02    -0.281652        -0.352246E-03
    134     0.259278E-01    -0.281655         0.143228E-01
    304     0.264469E-05    -0.282015E-07    -0.131237E-06
    306     0.776337E-05    -0.900157E-07    -0.605454E-06
    308     0.107580E-04    -0.199756E-06    -0.881480E-06
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2            VERSION=SUN4SPARC      15:55:13  OCT 11, 1995 CP=     111.800
FOR SUPPORT CALL                  PHONE                    FAX

 Modal analysis of coupled system of presurizer spray line & building

 **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


 ***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION *****   FREQUENCY =    3.6004
    LOAD STEP=      1  MODE =    5   CUM. ITER.=      5

 NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

   NODE        UX              UY              UZ              ROTX            ROTY            ROTZ
    310     0.962446E-05    -0.529189E-06    -0.162920E-05
    313     0.873151E-05    -0.749295E-06    -0.191104E-05
   9001    -0.272357E-02     0.611156         0.260912
   9002    -0.289157E-01     0.637227         0.272947
   9003    -0.848131         0.647196         0.287089
   9004    -1.03822          0.647186         0.228639
   9005     2.79901          0.647091        -0.307237
   9006     5.67056          0.647020        -0.691013
   9007     9.17895          0.615532        -1.26422
   9008     9.36014          0.534797        -1.23501
   9009     5.52068         -0.225550E-01     0.620101
   9010     2.54776         -0.225554E-01     0.256171
   9011    0.547950         -0.225527E-01    -0.439894
   9012     2.05610         -0.225505E-01    -0.524819
   9013     5.51848         -0.225434E-01    -0.374366
   9014     5.84732         -0.225393E-01    -0.206503
   9015     0.113170        -0.225228E-01     0.580501E-01
   9016    -3.43787         -0.225155E-01     0.140236E-01
   9017    -4.29602          0.503725E-01    -0.659823E-01
   9018    -2.09677          0.826455E-01    -0.659942E-01
   9019     0.528717         0.646237E-01    -0.660153E-01
   9020     0.155953E-01     0.129266         0.631582E-01
   9021    -0.182569E-01     0.831953E-01     0.147677E-01
   9022    -0.833034E-02     0.551629E-01    -0.379250E-02
   9023     0.268106E-01    -0.669604E-01     0.260378E-01
   9024    -0.334447E-03    -0.457987E-04     0.324375E-02

MAXIMUMS
NODE          16              9003            9007             0               0               0
VALUE       9.28850         0.647196        -1.26422           0.              0.              0.
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2            VERSION=SUN4SPARC      15:55:13  OCT 11, 1995 CP=     111.830
FOR SUPPORT CALL                  PHONE                    FAX

 Modal analysis of coupled system of presurizer spray line & building

 **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


 ***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION *****   FREQUENCY =    3.8829
    LOAD STEP=      1  MODE =    6   CUM. ITER.=      6

 NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

   NODE        UX              UY              UZ              ROTX            ROTY            ROTZ
      1     0.823139E-07     0.132260E-05    -0.185836E-06
      2    -0.141605E-03     0.127654E-03    -0.137659E-03
      3    -0.430460E-03     0.301660E-02    -0.691.315-03
      4    -0.452820E-03     0.183201E-01     0.228745E-02
      5    -0.464067E-03     0.305317E-01     0.712403E-02
      6    -0.485885E-02     0.348200E-01     0.743048E-02
      7    -0.769421E-02     0.348198E-01     0.638210E-02
```

9	0.237655E-02	0.348045E-01	-0.470009E-02
10	0.262727E-01	0.348032E-01	0.911896E-03
11	0.531710	0.347785E-01	0.998191E-01
12	0.575483	0.347752E-01	0.972360E-01
13	0.588205	0.228622E-01	0.117161
14	0.588206	0.152818E-01	0.133856
15	0.588209	0.823721E-03	0.170624
16	0.588210	-0.216612E-01	0.207519
17	0.561243	-0.209867E-01	0.274193
18	0.550162	-0.831146E-02	0.305095
19	0.506511	0.165742E-01	0.348946
20	0.392041	0.117876	0.463404
21	0.366529	0.136854	0.461143
22	0.964408E-03	0.136877	-0.219294
23	0.266133E-02	0.136876	-0.255837
24	0.279342E-01	0.136874	-0.314685
25	0.428137	0.136842	-0.305788
26	0.468479	0.136837	-0.281608
27	0.347792	0.136762	0.452977E-02
28	0.274184	0.136750	-0.354891E-02
29	0.146811	0.136729	-0.477108E-01
30	-0.518141	0.136590	-0.648433E-01
31	-0.522075	0.136549	-0.567066E-01
32	-0.524432	0.126585	-0.330829E-01
33	-0.515064	0.992568E-01	-0.231082E-01
34	-0.476061	-0.135429E-02	-0.221238E-01
35	-0.300673E-01	-1.40706	-0.222986E-01
36	-0.449677E-03	-1.46537	-0.223170E-01
37	0.253060E-01	-0.858172	-0.224350E-01
38	-0.335282E-01	-0.381773E-01	-0.224852E-01
39	-0.433373E-01	0.999452E-02	-0.123168E-01
40	-0.433374E-01	-0.217116E-01	-0.819215E-02
41	-0.433390E-01	-0.106540	0.311258E-02

1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM REVISION 5.0 *****
40416-2 VERSION=SUN4SPARC 15:55:13 OCT 11, 1995 CP= 111.880
FOR SUPPORT CALL PHONE FAX

Modal analysis of coupled system of pressurizer spray line & building

ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY

***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION ***** FREQUENCY = 3.8829
LOAD STEP= 1 MODE = 6 CUM. ITER.= 6

NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

NODE	UX	UY	UZ	ROTX	ROTY	ROTZ
46	-0.433564E-01	-0.635187	0.210001			
47	-0.433551E-01	-0.578732	0.220074			
48	-0.433435E-01	-0.512403	0.229524			
49	-0.433240E-01	-0.380165	0.243416			
50	-0.433042E-01	-0.212777	0.254667			
51	-0.432982E-01	-0.154541	0.257475			
52	-0.432764E-01	0.958091E-01	0.265368			
53	-0.431793E-01	1.89662	0.247532			
54	-0.430349E-01	5.60900	0.210904E-01			
55	-0.430318E-01	5.68871	0.133190E-01			
56	0.4143446-02	6.42707	-0.299184E-01			
57	0.3622195-01	6.63794	-0.298717E-01			
58	0.6655808-01	6.62630	-0.298299E-01			
59	0.113611	7.10782	-0.297674E-01			
60	0.161418	7.38801	-0.297012E-01			
61	0.209566	7.66618	-0.296349E-01			
62	0.213604	7.68946	-0.296293E-01			
63	0.272368	7.70358	0.275940E-01			
64	0.272588	6.77173	0.166314			
65	0.272689	6.34541	0.209717			
66	0.272758	5.90897	0.235976			
67	0.272817	5.53119	0.246778			
68	0.272867	5.26169	0.248987			
69	0.272968	4.98779	0.246505			
70	0.273039	4.78092	0.241362			
71	0.273194	4.31816	0.221458			
72	0.273223	3.85026	0.192072			
73	0.273351	1.86549	0.156850E-01			
74	0.273365	1.66894	-0.214473E-02			
75	0.273392	1.30083	-0.339825E-01			
76	0.273418	0.973153	-0.602907E-01			
77	0.273577	0.829013	-0.711324E-01			
78	0.273419	0.613615	-0.860140E-01			
79	0.273360	-0.797704	-0.417726E-01			
80	0.273346	-0.857745	0.305937E-02			
81	0.273343	-0.869075	0.1370926-01			
82	0.256211	-0.853829	0.305581E-01			
83	0.130372E-01	-0.104906	0.306454E-01			
84	0.257214E-01	-0.771354E-01	0.306493E-01			
85	0.207474E-01	-0.586058E-01	0.306521E-01			

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***** ANSYS - ENGINEERING ANALYSIS SYSTEM REVISION 5.0 *****
40416-2 VERSION=SUN4SPARC 15:55:13 OCT 11, 1995 CP= 111.930
FOR SUPPORT CALL PHONE FAX

Modal analysis of coupled system of pressurizer spray line & building

ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY

***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION ***** FREQUENCY = 3.8829
LOAD STEP= 1 MODE = 6 CUM. ITER.= 6

NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

NODE	UX	UY	UZ	ROTX	ROTY	ROTZ
86	0.266522E-02	-0.274842E-02	0.933870E-02			
87	-0.291709E-07	0.718743E-05	-0.154166E-05			
91	-0.109097	-0.578623	0.171634E-01			
92	-0.400255	-0.576214	-0.753174			
93	-0.533002	-0.316649	-1.01309			
94	-0.549453	-0.909357E-01	-1.01309			
95	-0.574944	0.251206	-1.01310			
96	-0.600111	0.582012	-1.01309			
97	-0.601361	0.598269	-1.01309			
98	-0.450781	0.828364	-0.792212			
100	-0.235346	0.828525	-0.550663			
101	-0.858698E-01	0.828633	-0.399401			
102	0.109516	0.828844	-0.215966			
103	0.114103	6.78144	0.145394E-01			
104	0.115333	6.09035	0.473866E-01			
105	0.115730	5.87119	0.506524E-01			
106	0.116126	5.64117	0.539968E-01			
107	0.117642	4.67078	0.206398			
109	0.162750	4.64707	0.249045			
111	0.251131	4.89042	0.249011			
112	0.266239	4.99258	0.248997			
113	-0.992335E-01	1.06289	-0.399436			
114	-0.100216	1.16658	-0.399460			
115	-0.957400E-01	1.22974	-0.399482			
116	-0.821992E-01	1.27016	-0.399512			
118	-0.119134	1.27306	-0.400233			
120	-0.773093E-01	1.27042	1.04977			
122	-0.397293E-01	1.12976	1.18520			
124	-0.303824E-02	0.844733	1.18528			
125	0.801509E-01	0.147071	1.18521			
127	0.871448E-01	0.305225E-02	1.04581			
129	0.170646E-01	0.180579E-02	0.170650E-01			
130	-0.153419E-05	0.149826E-04	-0.189872E-05			
131	-0.743163E-02	6.36552	-0.430243E-01			
132	-0.287672	6.36561	-0.296207			
133	-0.280980E-01	6.31823	0.102267E-02			
134	-0.329703	4.31829	-0.219444			
304	0.830140E-07	0.132266E-05	-0.185656E-06			
306	0.224172E-06	0.341868E-05	-0.585315E-06			
308	0.141308E-06	0.584730E-05	-0.118502E-05			

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***** ANSYS - ENGINEERING ANALYSIS SYSTEM REVISION 5.0 *****
40416-2 VERSION=SUN4SPARC 15:55:13 OCT 11, 1995 CP= 111.960
FOR SUPPORT CALL PHONE FAX

Modal analysis of coupled system of pressurizer spray line & building

ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY

***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION ***** FREQUENCY = 3.8829
LOAD STEP= 1 MODE = 6 CUM. ITER.= 6

NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

NODE	UX	UY	UZ	ROTX	ROTY	ROTZ
310	-0.786394E-06	0.113716E-04	-0.212164E-05			
313	-0.172615E-05	0.149764E-04	-0.198013E-05			
9001	-0.101523E-02	0.326496E-01	0.783475E-02			
9002	-0.259020E-02	0.342151E-01	0.798037E-02			
9003	-0.546450E-01	0.346158E-02	-0.108127E-01			
9004	-0.676067E-01	0.348108E-01	-0.188556E-01			
9005	0.183727	0.347958E-01	0.401971E-01			
9006	0.368539	0.347876E-01	0.810403E-01			
9007	0.582151	0.330034E-01	0.991273E-01			
9008	0.586664	0.285233E-01	0.106282			
9009	0.227662	0.136867	0.237076			
9010	0.777944E-01	0.136874	-0.595301E-02			
9011	0.144480	0.136867	-0.382594			
9012	0.299198	0.136856	-0.377959			
9013	0.527691	0.136816	-0.159737			
9014	0.487320	0.136791	-0.469315E-01			
9015	-0.115050	0.136688	-0.169390			
9016	-0.355446	0.136641	-0.220261			
9017	-0.317104	-0.503321	-0.221826E-01			
9018	-0.158947	-1.03528	-0.222409E-01			
9019	0.459224E-01	-1.38629	-0.223763E-01			
9020	-0.433471E-01	-0.650343	0.104316			
9021	0.273392	-0.406400	-0.114416			
9022	0.135579	-0.497969	0.306020E-01			
9023	-0.262373	1.27176	-0.780417E-01			
9024	0.187750E-02	0.91010CE-03	-0.756619E-01			

MAXIMUM						
NODE	97	63	122	0	0	0
VALUE	-0.601361	7.70358	1.18530	0.	0.	0.

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***** ANSYS - ENGINEERING ANALYSIS SYSTEM REVISION 5.0 *****
40416-2 VERSION=SUN4SPARC 15:55:13 OCT 11, 1995 CP= 111.990
FOR SUPPORT CALL PHONE FAX

Modal analysis of coupled system of pressurizer spray line & building

ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY

***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION ***** FREQUENCY = 4.2590
LOAD STEP= 1 MODE = 7 CUM. ITER.= 7

NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

NODE	UX	UY	UZ	ROTX	ROTY	ROTZ
1	0.948377E-06	-0.666723E-07	0.108795E-05			
2	-0.351858E-01	-0.906751E-02	-0.353315E-01			
3	-3.185209	-0.102002	-0.479767			
4	-0.185145	-0.403060	-2.25239			
5	-0.185112	-0.580795	-3.48262			
6	-0.197102	-0.629557	-3.88316			
7	-0.109074	-0.629571	-3.89637			
9	-0.497947E-02	-0.630116	-0.582176			
10	-0.117464	-0.630138	0.308618E-01			
11	-3.22487	-0.630346	12.5015			
12	-3.71995	-0.630360	13.8836			
13	-3.90122	-0.445495	13.0761			
14	-3.90121	-0.306211	12.1378			
15	-3.90119	0.532792E-02	10.0688			
16	-3.90108	0.786500	5.15812			
17	-3.50595	0.811089	4.21033			
18	-1.74214	0.630752	2.44668			
19	0.774339	0.420969	-0.700541E-01			
20	7.43088	0.979707E-01	-6.72675			
21	8.14471	0.794978E-01	-7.42083			
22	0.402134	0.798420E-01	-0.816196			
23	0.132435E-01	0.796650E-01	-0.416401			
24	-0.579475	0.799082E-01	0.307215			
25	-0.536355	0.801585E-01	2.48801			
26	-0.309674	0.801811E-01	2.44928			
27	2.06615	0.804184E-01	0.271685			
28	2.14635	0.804461E-01	0.986489E-02			
29	2.11915	0.804862E-01	-0.266166			
30	-0.486377	0.806935E-01	-0.399109E-01			
31	-0.517171	0.806952E-01	-0.325744E-01			
32	-0.571573	0.728783E-01	-0.134316E-01			
35	-0.544297	0.545625E-01	-0.581772E-02			
37	-0.377517	-0.914442E-03	-0.579178E-02			
38	0.237269E-01	-0.359484	-0.548177E-02			
39	0.181405E-02	-0.356454	-0.545962E-02			
40	-0.143750E-01	-0.160475	-0.524783E-02			
41	-0.259574E-02	-0.330333E-01	-0.515610E-02			
43	-0.27.394E-02	-0.633604E-02	-0.467836E-02			
44	-0.271273E-02	-0.257340E-02	-0.432902E-02			
45	-0.270953E-02	0.628851E-02	-0.329074E-02			

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***** ANSYS - ENGINEERING ANALYSIS SYSTEM REVISION 5.0 *****
40416-2 VERSION=SUN4SPARC 15:55:13 OCT 11, 1995 CP= 112.040
FOR SUPPORT CALL PHONE FAX

Modal analysis of coupled system of pressurizer spray line & building

ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY

***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION ***** FREQUENCY = 4.2590
LOAD STEP= 1 MODE = 7 CUM. ITER.= 7

NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

NODE	UX	UY	UZ	ROTX	ROTY	ROTZ
46	-0.266125E-02	0.195710E-01	0.864726E-02			
47	-0.265875E-02	0.191990E-01	0.893023E-02			
48	-0.265571E-02	0.147997E-01	0.914781E-02			
49	-0.265065E-02	0.107031E-01	0.934947E-02			
50	-0.264555E-02	0.655700E-02	0.936361E-02			
51	-0.264402E-02	0.532260E-02	0.933386E-02			
52	-0.263842E-02	0.899465E-03	0.910173E-02			
53	-0.261365E-02	-0.158610E-01	0.833767E-02			
54	-0.257704E-02	-0.362946E-01	0.796381E-03			
55	-0.257626E-02	-0.367178E-01	0.708494E-03			
56	-0.219411E-02	-0.342426E-01	0.310765E-03			
57	-0.201200E-02	-0.315231E-01	0.312096E-03			
58	-0.190015E-02	-0.291080E-01	0.313284E-03			
59	-0.177594E-02	-0.265213E-01	0.315062E-03			
60	-0.167883E-02	-0.239745E-01	0.316834E-03			
61	-0.157948E-02	-0.184745E-01	0.318605E-03			
62	-0.157048E-02	-0.181829E-01	0.318754E-03			
63	-0.135291E-02	-0.115697E-01	0.611315E-03			
64	-0.136237E-02	-0.460126E-02	0.186724E-02			
65	-0.136666E-02	-0.144042E-02	0.237065E-02			
66	-0.136802E-02	0.170253E-02	0.270277E-02			
67	-0.136918E-02	0.435861E-02	0.285832E-02			
68	-0.136981E-02	0.622868E-02	0.290240E-02			
69	-0.137052E-02	0.805652E-02	0.289357E-02			
70	-0.137108E-02	0.942106E-02	0.285260E-02			
71	-0.137232E-02	0.123785E-01	0.266232E-02			
72	-0.137134E-02	0.152346E-01	0.234446E-02			
73	-0.136658E-02	0.[illegible]344E-01	-0.129441E-03			
74	-0.136649E-02	0.2787[illegible]E-02	-0.470724E-03			
75	-0.136550E-02	0.306444E-01	-0.115497E-02			
76	-0.136451E-02	0.320689E-01	-0.180669E-02			
77	-0.136545E-02	0.339215E-01	-0.210473E-02			
78	-0.136408E-02	0.344146E-01	-0.252020E-02			
79	-0.136208E-02	0.[illegible]355E-01	-0.193500E-02			
80	-0.136166E-02	0.361711E-01	-0.138492E-02			

81	-0.136158E-02	0.358138E-01	-0.127324E-02
82	-0.145306E-02	0.327696E-01	-0.115771E-02
83	-0.509352E-03	0.312290E-02	-0.115266E-02
84	-0.436424E-03	0.230715E-02	-0.115246E-02
85	-0.385525E-03	0.176653E-02	-0.115231E-02

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***** ANSYS - ENGINEERING ANALYSIS SYSTEM REVISION 5.0 *****
40416-2 VERSION=SUN4SPARC 15:55:13 OCT 11, 1995 CP= 112.080
FOR SUPPORT CALL PHONE FAX

Modal analysis of coupled system of pressurizer spray line & building

ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY

***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION ***** FREQUENCY = 4.2590
LOAD STEP= 1 MODE = 7 CUM. ITER.= 7

NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

NODE	UX	UY	UZ	ROTX	ROTY	ROTZ
86	-0.810781E-04	0.873637E-04	-0.361383E-03			
87	0.523482E-05	-0.921990E-07	0.866511E-05			
91	-0.345733E-03	0.171970E-01	0.473563E-02			
92	0.770304E-02	0.171695E-01	-0.898396E-02			
93	0.956760E-02	0.206691E-01	-0.126984E-01			
94	0.901762E-02	0.233183E-01	-0.126979E-01			
95	0.814686E-02	0.270589E-01	-0.126970E-01			
96	0.726992E-02	0.304867E-01	-0.126961E-01			
97	0.722612E-02	0.306531E-01	-0.126960E-01			
98	0.473226E-02	0.330287E-01	-0.103735E-01			
100	0.265102E-02	0.330554E-01	-0.772180E-02			
101	0.134350E-02	0.330232E-01	-0.602436E-02			
102	-0.202753E-03	0.330223E-01	-0.586139E-02			
103	-0.177532E-02	-0.232281E-01	0.498869E-03			
104	-0.177376E-02	-0.170093E-01	0.119215E-02			
105	-0.177325E-02	-0.148474E-01	0.145899E-02			
106	-0.177272E-02	-0.126169E-01	0.173417E-02			
107	-0.177068E-02	-0.399725E-02	0.277675E-02			
109	-0.164755E-02	-0.150383E-02	0.290236E-02			
111	-0.144028E-02	0.163161E-02	0.290239E-02			
112	-0.140358E-02	0.291030E-02	0.290240E-02			
113	0.491545E-03	0.351328E-01	-0.602598E-02			
114	-0.147975E-03	0.354210E-01	-0.602712E-02			
115	-0.806776E-03	0.349854E-01	-0.602822E-02			
116	-0.179150E-02	0.335679E-01	-0.602981E-02			
118	-0.169888E-02	0.329687E-01	-0.543892E-02			
120	0.862560E-03	0.329008E-01	0.302792E-01			
122	0.527091E-03	0.293965E-01	0.336264E-01			
124	0.319332E-04	0.221557E-01	0.336252E-01			
125	-0.106066E-02	0.394563E-02	0.336219E-01			
127	-0.121763E-02	0.787310E-04	0.298512E-01			
129	-0.508399E-03	0.462957E-04	0.582904E-03			
130	0.815307E-05	-0.305312E-06	0.119144E-04			
131	0.654376E-03	-0.144045E-02	-0.721183E-03			
132	0.266182E-02	-0.144047E-02	-0.382065E-02			
133	0.497501E-03	0.123787E-01	-0.436921E-04			
134	0.237225E-02	0.123788E-01	-0.275122E-02			
304	0.946496E-06	-0.612500E-07	0.110415E-05			
306	0.242192E-05	-0.263355E-07	0.588720E-05			
308	0.472113E-05	-0.530279E-07	0.768563E-05			

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***** ANSYS - ENGINEERING ANALYSIS SYSTEM REVISION 5.0 *****
40416-2 VERSION=SUN4SPARC 15:55:13 OCT 11, 1995 CP= 112.120
FOR SUPPORT CALL PHONE FAX

Modal analysis of coupled system of pressurizer spray line & building

ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY

***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION ***** FREQUENCY = 4.2590
LOAD STEP= 1 MODE = 7 CUM. ITER.= 7

NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

NODE	UX	UY	UZ	ROTX	ROTY	ROTZ
310	0.674725E-05	-0.207024E-06	0.115106E-04			
313	0.875004E-05	-0.306199E-06	0.126083E-04			
9001	-0.178497	-0.605417	-3.67199			
9002	-0.160812	-0.523138	-3.81960			
9003	0.256393	-0.629778	-3.92009			
9004	0.339557	-0.629959	-3.02306			
9005	-0.882549	-0.630226	3.78611			
9006	-1.93793	-0.630295	6.17927			
9007	-3.80950	-0.606166	13.9476			
9008	-3.87621	-0.539337	13.6543			
9009	5.51293	0.796163E-01	-5.01672			
9010	2.77640	0.797310E-01	-2.84891			
9011	-1.19146	0.799943E-01	1.52358			
9012	-1.11658	0.800777E-01	2.27653			
9013	0.636770	0.802631E-01	1.97293			
9014	1.51650	0.803422E-01	1.14395			
9015	1.61893	0.805586E-01	-0.444872			
9016	0.667110	0.806277E-01	-0.311205			
9017	0.589472E-03	-0.186912	-0.569195E-02			
9018	0.817692E-01	-0.312514	-0.559195E-02			
9019	-0.264961E-01	-0.289417	-0.535383E-02			
9020	-0.168544E-02	0.338651E-01	0.384829E-02			

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   9021   -0.136310E-02     0.391811E-01    -0.328099E-02
   9022   -0.128659E-02     0.159210E-01    -0.115492E-02
   9023    0.110757E-02     0.329353E-01     0.429195E-02
   9024   -0.137912E-03     0.229878E-04    -0.219447E-02

MAXIMUMS
NODE         21                17              9007              0                 0                 0
VALUE      8.14471           0.811089          13.9476             0.                0.                0.
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 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC     15:55:13  OCT 11, 1995 CP=     112.160
FOR SUPPORT CALL                      PHONE                    FAX

 Modal analysis of coupled system of presurizer spray line & building

 **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


 ***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION *****   FREQUENCY =    5.6836
    LOAD STEP=      1  MODE =    8   CUM. ITER.=      8

 NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

   NODE        UX                UY                UZ              ROTX              ROTY              ROTZ
      1   -0.643352E-07     0.823760E-06     0.683919E-06
      2   -0.543591E-03     0.184758E-02    -0.550863E-03
      3   -0.364303E-02     0.166812E-01    -0.104972E-01
      4   -0.359826E-02     0.483550E-01    -0.666798E-01
      5   -0.357569E-02     0.570885E-01    -0.116363
      6   -0.271012E-02     0.570395E-01    -0.126032
      7   -0.138577E-02     0.570436E-01    -0.121214
      9   -0.536903E-02     0.572220E-01     0.912432E-02
     10   -0.387581E-01     0.572309E-01    -0.478678E-02
     11   -0.561513         0.573413E-01    -0.636010E-01
     12   -0.550077         0.573521E-01     0.357320E-01
     13   -0.538012         0.425705E-01    -0.426018E-01
     14   -0.535015         0.281802E-01    -0.134358
     15   -0.538022        -0.983194E-02    -0.336420
     16   -0.538025        -0.130052        -0.811774
     17   -0.500298        -0.185187        -0.902412
     18   -0.333183        -0.371673         -1.04954
     19   -0.975441E-01    -0.655241         -1.30519
     20    0.514194         -1.44926         -1.91693
     21    0.620014         -1.56193         -1.86547
     22    0.641693E-01     -1.56203          1.48739
     23    0.352552E-02     -1.56189          1.53222
     24   -0.897889E-01     -1.56188          1.51662
     25   -0.752728E-01     -1.56069         -0.453350
     26   -0.383101E-01     -1.56054         -0.665578
     27    0.282396         -1.55830         -0.450515
     28    0.277068         -1.55796          0.249158E-01
     29    0.243063         -1.55738          0.911035
     30   -0.205386         -1.55354          0.511165
     31   -0.108427         -1.55350          0.412855
     32   -0.211887         -1.43522          0.1321B4
     35   -0.205014         -1.11955          0.478638E-02
     37   -0.176091          0.540691E-02     0.487931E-02
     38   -0.164331E-02      12.4865          0.594705E-02
     39   -0.392843E-03      12.6351          0.606100E-02
     40   -0.246714E-01       5.79417         0.680728E-02
     41    0.453374E-02      0.740264         0.712924E-02
     43    0.128188E-01     0.7321115E-01    -0.210995E-02
     44    0.128175E-01     0.526348E-01     -0.640522E-02
     45    0.128142E-01     0.180468E-02     -0.193388E-01
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 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC     15:55:13  OCT 11, 1995 CP=     112.200
FOR SUPPORT CALL                      PHONE                    FAX

 Modal analysis of coupled system of presurizer spray line & building

 **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


 ***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION *****   FREQUENCY =    5.6836
    LOAD STEP=      1  MODE =    8   CUM. ITER.=      8

 NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

   NODE        UX                UY                UZ              ROTX              ROTY              ROTZ
     46    0.127630E-01     -0.214440        -0.298676
     47    0.127602E-01     -0.193260        -0.301416
     48    0.127741E-01     -0.169533        -0.301434
     49    0.127972E-01     -0.123913        -0.296390
     50    0.128201E-01     -0.6755706E-01   -0.285571
     51    0.128270E-01     -0.4809446E-01   -0.281330
     52    0.128521E-01      0.3538356E-01   -0.262376
     53    0.129625E-01      0.638783        -0.141788
     54    0.131246E-01       1.89646        -0.305613E-01
     55    0.131278E-01       1.92384        -0.313250E-01
     56    0.2313B9E-01       1.93542        -0.391450E-01
     57    0.310433E-01       1.88434        -0.391943E-01
     58    0.389962E-01       1.80155        -0.392383E-01
     59    0.513055E-01       1.70869        -0.393041E-01
     60    0.631066E-01       1.61705        -0.393681E-01
     61    0.735197E-01       1.52654        -0.394121E-01
     62    0.743005E-01       1.51899        -0.394375E-01
     63    0.810318E-01       1.28936        -0.368209E-01
     64    0.813471E-01      0.949533        -0.565387E-01
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     65    0.814903E-01      0.796716        -0.681302E-01
     66    0.815567E-01      0.643079        -0.766914E-01
     67    0.816129E-01      0.512243        -0.816666E-01
     68    0.816470E-01      0.419678        -0.825866E-01
     69    0.816997E-01      0.328171        -0.826342E-01
     70    0.817392E-01      0.259560        -0.818083E-01
     71    0.818267E-01      0.109352        -0.770323E-01
     72    0.818518E-01     -0.376822E-01    -0.676972E-01
     73    0.819622E-01     -0.620824         0.112984E-01
     74    0.819742E-01     -0.675391         0.224063E-01
     75    0.819983E-01     -0.776053         0.441539E-01
     76    0.820210E-01     -0.863971         0.632656E-01
     77    0.820698E-01     -0.902738         0.710309E-01
     78    0.820360E-01     -0.959515         0.809635E-01
     79    0.819674E-01      -1.31733         0.573927E-01
     80    0.819527E-01      -1.32056         0.450574E-01
     81    0.819489E-01      -1.32024         0.429652E-01
     82    0.825656E-01      -1.22149         0.414775E-01
     83    0.1840B3E-01     -0.111762         0.413425E-01
     84    0.1489B4E-01     -0.816063E-01     0.413363E-01
     85    0.124723E-01     -0.616298E-01     0.413218E-01
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 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC     15:55:13  OCT 11, 1995 CP=     112.240
FOR SUPPORT CALL                      PHONE                    FAX

 Modal analysis of coupled system of presurizer spray line & building

 **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


 ***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION *****   FREQUENCY =    5.6836
    LOAD STEP=      1  MODE =    8   CUM. ITER.=      8

 NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

   NODE        UX                UY                UZ              ROTX              ROTY              ROTZ
     86    0.209148E-02     -0.212869E-02     0.131296E-01
     87   -0.255966E-06      0.460643E-05     0.618815E-05
     91    -0.111753E-01     -0.193199        -0.135739
     92    -0.113373         -0.192970         0.415221
     93    -0.152604         -0.340702         0.570307
     94    -0.154174         -0.457058         0.570267
     95    -0.156149         -0.625312         0.570212
     96    -0.156967         -0.783352         0.570147
     97    -0.156959         -0.791105         0.570144
     98    -0.109861         -0.902984         0.460177
    100   -0.525039E-01      -0.902880         0.333741
    101   -0.129527E-01      -0.902810         0.252584
    102    0.366803E-01      -0.902770         0.151971
    103    0.514304E-01       1.59060         -0.319678E-01
    104    0.517420E-01       1.32439         -0.558883E-01
    105    0.518424E-01       1.23544         -0.690502E-01
    106    0.519420E-01       1.14050         -0.814616E-01
    107    0.523221E-01      0.749683         -0.896359E-01
    109    0.603293E-01      0.655487         -0.825656E-01
    111    0.779510E-01      0.559431         -0.825779E-01
    112    0.809792E-01      0.520435         -0.825830E-01
    113    0.900057E-03      -1.02283          0.252626
    114    0.122816E-01      -1.06764          0.252656
    115    0.245893E-01      -1.08640          0.252682
    116    0.437057E-01      -1.08163          0.252718
    118    0.372066E-01      -1.07357          0.243712
    120   -0.230321E-01      -1.07158         -0.970624
    122   -0.134979E-01      -0.955500         -1.08212
    124   -0.757782E-03      -0.718248         -1.08209
    125    0.275767E-01      -0.137299         -1.08199
    127    0.213082E-01     -0.242979E-02     -0.960291
    129    0.118969E-01     -0.142865E-02     -0.182295E-01
    130   -0.122060E-05      0.981142E-05      0.673237E-05
    131   -0.174128E-01      0.796743          0.199992E-01
    132   -0.116518          0.796767          0.108351
    133   -0.142200E-01      0.109355          0.951230E-02
    134   -0.110438          0.109359          0.961803E-01
    304   -0.657347E-07      0.622178E-06      0.683514E-06
    306   -0.330685E-06      0.208432E-05      0.224032E-05
    308   -0.173900E-06      0.367847E-05      0.472574E-05
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 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC     15:55:13  OCT 11, 1995 CP=     112.280
FOR SUPPORT CALL                      PHONE                    FAX

 Modal analysis of coupled system of presurizer spray line & building

 **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


 ***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION *****   FREQUENCY =    5.6836
    LOAD STEP=      1  MODE =    8   CUM. ITER.=      8

 NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

   NODE        UX                UY                UZ              ROTX              ROTY              ROTZ
    310   -0.745806E-06      0.742326E-05     0.944105E-05
    313   -0.135252E-05      0.984882E-05     0.697034E-05
   9001   -0.362081E-02      0.573554E-01     -0.123706
   9002   -0.343495E-02      0.572077E-01     -0.127416
   9003    0.484835E-01      0.571071E-01     -0.370091E-01
   9004    0.801430E-01      0.571665E-01      0.237036E-01
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9005	-0.255757	0.572706E-01	-0.108756
9006	-0.467669	0.573074E-01	-0.172117
9007	-0.545015	0.559158E-01	0.408590E-01
9008	-0.540179	0.509761E-01	0.130502E-01
9009	0.636716	-1.56210	-0.400979
9010	0.395914	-1.56213	0.824441
9011	-0.186631	-1.56157	1.11673
9012	-0.172061	-1.56118	0.375535
9013	0.109962	-1.55989	-1.21554
9014	0.232081	-1.55915	-1.19507
9015	0.113006	-1.55623	2.44489
9016	-0.578708E-01	-1.55493	2.67582
9017	-0.865365E-01	5.13252	0.523552E-02
9018	-0.281458E-01	9.90550	0.559144E-02
9019	-0.149764E-01	10.6497	0.643427E-02
9020	0.127889E-01	-0.244531	-0.177109
9021	0.820035E-01	-1.23214	0.944012E-01
9022	0.595041E-01	-0.587056	0.414107E-01
9023	-0.413081E-01	-1.07260	-0.610452E-01
9024	0.316176E-02	-0.709193E-03	0.709717E-01

MAXIMUMS

NODE	9009	33	9016	0	0	0
VALUE	0.636716	12.6351	2.67582	0.	0.	0.

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***** ANSYS - ENGINEERING ANALYSIS SYSTEM REVISION 5.0 *****
40416-2 VERSION=SUN4SPARC 15:55:13 OCT 11, 1995 CP= 112.310
FOR SUPPORT CALL PHONE FAX

Modal analysis of coupled system of presurizer spray line & building

ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY

***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION ***** FREQUENCY = 7.4672
LOAD STEP= 1 MODE = 9 CUM. ITER.= 9

NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

NODE	UX	UY	UZ	ROTX	ROTY	ROTZ
1	0.987814E-05	-0.141329E-01	0.498214E-06			
3	-0.102107E-01	-0.157451E-04	-0.102450E-01			
3	-0.518751E-01	0.328962E-02	-0.131615			
4	-0.519684E-01	0.309632E-01	-0.579052			
5	-0.520141E-01	0.601552E-01	-0.866960			
6	-0.640681E-01	0.713249E-01	-0.952737			
7	-0.721450E-01	0.713225E-01	-0.953143			
9	0.834434E-02	0.711661E-01	-0.106859			
10	0.869118E-01	0.711539E-01	0.107636E-02			
11	1.49602	0.709326E-01	1.55994			
12	1.58683	0.709036E-01	1.70560			
13	1.62665	0.425113E-01	1.59338			
14	1.62664	0.238368E-01	1.47338			
15	1.62661	-0.127363E-01	1.21111			
16	1.62649	-0.660611E-01	0.610971			
17	1.67176	-0.834677E-01	0.501453			
18	1.86628	-0.143682	0.306785			
19	2.12788	-0.190876	0.469514E-01			
20	2.75129	0.168255E-01	-0.579179			
21	2.67392	0.108124	-0.648172			
22	-0.588139	0.106364	-1.12917			
23	0.963688E-01	0.106235	-1.04723			
24	1.96011	0.105980	-0.819306			
25	11.0379	0.104366	1.10602			
26	10.5574	0.104208	1.19243			
27	-5.99891	0.102383	0.210159			
28	-7.56128	0.102148	0.821308E-02			
29	-8.84602	0.101787	-0.216832			
30	5.33234	0.996949E-01	0.423502E-01			
31	5.53532	0.996758E-01	0.507218E-01			
32	6.03375	0.904984E-01	0.729255E-01			
35	6.15732	0.689295E-01	0.818786E-01			
37	5.83916	0.890009E-02	0.819014E-01			
38	0.451786	0.302406	0.821022E-01			
39	0.124372E-01	0.353641	0.821195E-01			
40	-0.447002	0.341575	0.821978E-01			
41	-0.534252E-01	0.146816	0.822210E-01			
43	-0.135160E-01	0.350684E-01	0.452943E-01			
44	-0.134967E-01	0.760080E-02	0.332995E-01			
45	-0.134456E-01	-0.578305E-01	0.481270E-02			

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***** ANSYS - ENGINEERING ANALYSIS SYSTEM REVISION 5.0 *****
40416-2 VERSION=SUN4SPARC 15:55:13 OCT 11, 1995 CP= 112.350
FOR SUPPORT CALL PHONE FAX

Modal analysis of coupled system of presurizer spray line & building

ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY

***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION ***** FREQUENCY = 7.4672
LOAD STEP= 1 MODE = 9 CUM. ITER.= 9

NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

NODE	UX	UY	UZ	ROTX	ROTY	ROTZ
46	-0.126761E-01	-0.209454	-0.622640E-01			
47	-0.126355E-01	-0.188769	-0.593853E-01			
48	-0.126096E-01	-0.166214	-0.567013E-01			

49	-0.125665E-01	-0.124683	-0.516660E-01
50	-0.125230E-01	-0.796587E-01	-0.460262E-01
51	-0.125099E-01	-0.657967E-01	-0.442476E-01
52	-0.124620E-01	-0.147864E-01	-0.374984E-01
53	-0.122496E-01	0.193475	-0.937079E-02
54	-0.119356E-01	0.475863	-0.118252E-01
55	-0.119190E-01	0.485022	-0.119548E-01
56	-0.473537E-02	0.454638	-0.196684E-01
57	-0.315853E-03	0.417867	-0.196898E-01
58	0.352365E-02	0.385027	-0.197086E-01
59	0.889605E-02	0.335961	-0.197373E-01
60	0.135680E-01	0.287128	-0.197650E-01
61	0.173364E-01	0.238673	-0.197926E-01
62	0.176066E-01	0.234625	-0.197951E-01
63	0.194623E-01	0.199940	-0.196000E-01
64	0.195387E-01	0.341901E-01	-0.294135E-01
65	0.195734E-01	-0.131071E-01	-0.344423E-01
66	0.195620E-01	-0.594266E-01	-0.378077E-01
67	0.195523E-01	-0.978965E-01	-0.393057E-01
68	0.195444E-01	-0.124538	-0.395877E-01
69	0.195406E-01	-0.150152	-0.392774E-01
70	0.195387E-01	-0.168972	-0.386847E-01
71	0.195345E-01	-0.204708	-0.362258E-01
72	0.195080E-01	-0.245394	-0.321124E-01
73	0.193895E-01	-0.381461	-0.465709E-02
74	0.193761E-01	-0.394725	-0.169231E-02
75	0.193491E-01	-0.420657	0.392703E-02
76	0.193216E-01	-0.446130	0.932977E-02
77	0.193210E-01	-0.458933	0.119993E-01
78	0.193086E-01	-0.479208	0.160505E-01
79	0.193047E-01	-0.640231	0.251047E-01
80	0.193032E-01	-0.646235	0.228186E-01
81	0.193028E-01	-0.647117	0.223653E-01
82	0.195052E-01	-0.602004	0.220257E-01
83	0.621035E-02	-0.563243E-01	0.219802E-01
84	0.526423E-02	-0.410473E-01	0.219864E-01
85	0.458478E-02	-0.309247E-01	0.219851E-01

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***** ANSYS - ENGINEERING ANALYSIS SYSTEM REVISION 5.0 *****
40416-2 VERSION=SUN4SPARC 15:55:14 OCT 11, 1995 CP= 112.400
FOR SUPPORT CALL PHONE FAX

Modal analysis of coupled system of presurizer spray line & building

ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY

***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION ***** FREQUENCY = 7.4672
LOAD STEP= 1 MODE = 9 CUM. ITER.= 9

NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

NODE	UX	UY	UZ	ROTX	ROTY	ROTZ
86	0.102262E-02	-0.100111E-02	0.691404E-02			
87	0.520928E-04	-0.390242E-06	0.651649E-05			
91	-0.333988E-01	-0.188785	-0.170576E-01			
92	-0.105640	-0.188840	0.143091			
93	-0.122864	-0.240919	0.195572			
94	-0.116551	-0.284754	0.195586			
95	-0.105790	-0.350212	0.195607			
96	-0.944663E-01	-0.412618	0.195623			
97	-0.938973E-01	-0.415672	0.195624			
98	-0.627124E-01	-0.454881	0.154032			
100	-0.355036E-01	-0.454891	0.107863			
101	-0.179334E-01	-0.458497	0.784525E-01			
102	0.322385E-02	-0.458917	0.418399E-01			
103	0.893837E-02	0.303134	-0.166134E-01			
104	0.904595E-02	0.218063	-0.263548E-01			
105	0.907799E-02	0.187726	-0.317556E-01			
106	0.911175E-02	0.155472	-0.368615E-01			
107	0.924083E-02	0.260065E-01	-0.418089E-01			
109	0.118816E-01	-0.109506E-01	-0.395805E-01			
111	0.178902E-01	-0.571709E-01	-0.395847E-01			
112	0.190091E-01	-0.759472E-01	-0.395865E-01			
113	-0.816330E-02	-0.503087	0.784729E-01			
114	-0.666651E-03	-0.519722	0.784868E-01			
115	0.715816E-02	-0.526332	0.784988E-01			
116	0.189879E-01	-0.523133	0.785157E-01			
118	0.173635E-01	-0.518269	0.741905E-01			
120	-0.117379E-01	-0.518476	-0.506791			
122	-0.698863E-02	-0.463051	-0.560005			
124	-0.244823E-03	-0.349421	-0.559989			
125	0.147428E-01	-0.626596E-01	-0.559925			
127	0.168490E-01	-0.108662E-02	-0.499344			
129	0.705621E-02	-0.640722E-03	-0.105740E-01			
130	0.790870E-04	0.177913E-07	0.123174E-04			
131	-0.104392E-01	-0.131029E-01	0.101494E-01			
132	-0.405739E-01	-0.131035E-01	0.548695E-01			
133	-0.511023E-02	-0.208721	0.387441E-02			
134	-0.298219E-01	-0.200732	0.440393E-01			
304	0.988116E-05	-0.140570E-06	0.504319E-06			
306	0.270583E-04	-0.344140E-06	0.266809E-05			
308	0.470893E-04	-0.411097E-06	0.511415E-05			

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***** ANSYS - ENGINEERING ANALYSIS SYSTEM REVISION 5.0 *****
40416-2 VERSION=SUN4SPARC 15:55:14 OCT 11, 1995 CP= 112.440
FOR SUPPORT CALL PHONE FAX

Modal analysis of coupled system of presurizer spray line & building

ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY

***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION ***** FREQUENCY = 7.4672
LOAD STEP= 1 MODE = 9 CUM. ITER.= 9

NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

NODE	UX	UY	UZ	ROTX	ROTY	ROTZ
310	0.667191E-04	-0.166746E-06	0.105606E-04			
313	0.856850E-04	0.248511E-07	0.136621E-04			
9001	-0.534639E-01	0.654184E-01	-0.909227			
9002	-0.577343E-01	0.696463E-01	-0.940722			
9003	-0.212163	0.712791E-01	-0.859197			
9004	-0.237216	0.712270E-01	-0.624613			
9005	0.577554	0.710864E-01	0.563958			
9006	1.09533	0.710126E-01	1.10163			
9007	1.61232	0.667720E-01	1.70919			
9008	1.62296	0.561771E-01	1.66850			
9009	0.366422	0.107553	-0.864236			
9010	-1.41424	0.106967	-1.18562			
9011	6.69793	0.105453	-0.153155			
9012	10.3727	0.104915	0.574620			
9013	6.40699	0.103612	1.21289			
9014	-0.422637E-03	0.103003	0.809383			
9015	-7.55108	0.101102	-0.376388			
9016	-2.13403	0.100405	-0.247977			
9017	4.28575	-0.389418E-01	0.819761E-01			
9018	2.31072	0.106671	0.820430E-01			
9019	-0.638586	0.429872	0.821630E-01			
9020	-0.130613E-01	-0.296711	-0.853299E-01			
9021	0.193075E-01	-0.591285	0.289623E-01			
9022	0.154748E-01	-0.294523	0.220076E-01			
9023	-0.182034E-01	-0.518696	-0.726608E-01			
9024	0.205628E-02	-0.320254E-03	0.375668E-01			

MAXIMUMS						
NODE	25	81	9007	0	0	0
VALUE	11.0379	-0.647117	1.70919	0.	0.	0.

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***** ANSYS - ENGINEERING ANALYSIS SYSTEM REVISION 5.0 *****
40416-2 VERSION=SUN4SPARC 15:55:14 OCT 11, 1995 CP= 112.470
FOR SUPPORT CALL PHONE FAX

Modal analysis of coupled system of presurizer spray line & building

ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY

***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION ***** FREQUENCY = 8.0609
LOAD STEP= 1 MODE = 10 CUM. ITER.= 10

NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

NODE	UX	UY	UZ	ROTX	ROTY	ROTZ
1	-0.252766E-05	-0.9130768-06	0.881794E-05			
2	0.920929E-02	0.701521E-02	0.923186E-02			
3	0.481308E-01	0.896612E-01	0.124251			
4	0.481808E-01	0.363608	0.590726			
5	0.482046E-01	0.5001?9	0.926384			
6	0.186892E-01	0.532032	1.00387			
7	0.326292E-02	0.532047	0.985529			
8	-0.866969E-02	0.532469	0.949997E-01			
10	-0.441641E-02	0.532465	.644B5E-01			
11	0.787523	0.532053	0.517619E-01			
12	1.11530	0.531974	-0.193792			
13	1.25464	0.383660	0.153394			
14	1.25461	0.264194	0.494164			
15	1.25455	-0.151560E-01	1.24428			
16	1.25435	-0.745636	3.01209			
17	1.11311	-0.821434	3.35200			
18	0.485436	-0.756743	3.97857			
19	-0.401533	-0.604828	4.86534			
20	-2.69772	0.299992	7.16080			
21	-2.82904	0.521191	6.95431			
22	0.161946E-01	0.518420	-7.84533			
23	-0.129102E-01	0.518194	-7.62982			
24	-0.167439	0.517731	-6.52814			
25	-1.34029	0.514580	7.85521			
26	-1.29829	0.514252	8.64941			
27	0.706820	0.510258	1.66764			
28	0.903099	0.509717	0.678263E-01			
29	1.06231	0.506862	-1.72932			
30	-0.641186	0.503679	-0.348565			
31	-0.663529	0.503630	-0.299937			
32	-0.727175	0.452542	-0.174647			
35	-0.761178	0.337153	-0.126257			
37	-0.783873	0.247800E-01	-0.126020			
38	-0.102145	0.949308	-0.123189			
39	-0.165194E-02	1.17120	-0.122879			
40	0.201761	1.16505	-0.120784			
41	0.296628E-01	0.257609	-0.119860			
43	-0.362704E-02	0.1630112-01	-0.849867E-01			
44	-0.362819E-02	-0.187640E-01	-0.712752E-01			
45	-0.363120E-02	-0.112743	-0.358884E-01			

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***** ANSYS - ENGINEERING ANALYSIS SYSTEM REVISION 5.0 *****
40416-2 VERSION=SUN4SPARC 15:55:14 OCT 11, 1995 CP= 112.510

FOR SUPPORT CALL PHONE FAX

Modal analysis of coupled system of presurizer spray line & building

ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY

***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION ***** FREQUENCY = 8.0609
LOAD STEP= 1 MODE = 10 CUM. ITER.= 10

NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

NODE	UX	UY	UZ	ROTX	ROTY	ROTZ
46	-0.367522E-02	-0.739074	0.189639			
47	-0.367750E-02	-0.682283	0.189548			
48	-0.367429E-02	-0.612021	0.189317			
49	-0.366893E-02	-0.489763	0.189279			
50	-0.366344E-02	-0.298972	0.189028			
51	-0.366179E-02	-0.242966	0.188828			
52	-0.365574E-02	-0.216447E-01	0.187263			
53	-0.362875E-02	1.17461	0.150604			
54	-0.358850E-02	3.32686	-0.677563E-01			
55	-0.358763E-02	3.37464	-0.755341E-01			
56	0.358216E-01	3.24296	-0.115458			
57	0.582695E-01	3.02123	-0.115593			
58	0.783461E-01	2.82284	-0.115713			
59	0.106420	2.52563	-0.115892			
60	0.130506	2.22861	-0.116067			
61	0.149238	1.93243	-0.116242			
62	0.150518	1.90762	-0.116257			
63	0.156249	1.29346	-0.120611			
64	0.156956	0.563821	-0.197286			
65	0.157187	0.238280	-0.235098			
66	0.157200	-0.812915E-01	-0.262034			
67	0.157212	-0.346415	-0.275525			
68	0.157204	-0.529911	-0.279476			
69	0.157233	-0.706243	-0.276906			
70	0.157257	-0.835756	-0.275570			
71	0.157309	-1.10903	-0.2566??			
72	0.157313	-1.35990	-0.227760			
73	0.157323	-2.24237	0.159701E-01			
74	0.157323	-2.32123	0.482547E-01			
75	0.157322	-2.46994	0.111088			
76	0.157316	-2.60847	0.167440			
77	0.157429	-2.67582	0.191462			
78	0.157327	-2.78360	0.223899			
79	0.157213	-4.04110	0.193262			
80	0.157184	-4.16834	0.154424			
81	0.157177	-4.19528	0.146682			
82	0.162254	-3.91859	0.139716			
83	0.410164E-01	-0.355918	0.139716			
84	0.327831E-01	-0.257874	0.139297			
85	0.269989E-01	-0.192900	0.139284			

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***** ANSYS - ENGINEERING ANALYSIS SYSTEM REVISION 5.0 *****
40416-2 VERSION=SUN4SPARC 15:55:14 OCT 11, 1995 CP= 112.560
FOR SUPPORT CALL PHONE FAX

Modal analysis of coupled system of presurizer spray line & building

ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY

***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION ***** FREQUENCY = 8.0609
LOAD STEP= 1 MODE = 10 CUM. ITER.= 10

NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

NODE	UX	UY	UZ	ROTX	ROTY	ROTZ
86	0.444717E-02	-0.463208E-02	0.441625E-01			
87	-0.134916E-04	-0.510831E-05	0.621991E-04			
91	-0.679608E-01	-0.682414	0.443756			
92	-0.317356	-0.682902	1.42982			
93	-0.391371	-1.03402	1.77444			
94	-0.378944	-1.34451	1.77441			
95	-0.356957	-1.82470	1.77436			
96	-0.331280	-2.30209	1.77425			
97	-0.329894	-2.32597	1.77424			
98	-0.213263	-2.67534	1.42967			
100	-0.981699E-01	-2.67546	1.03038			
101	-0.207419E-01	-2.67554	0.771679			
102	0.775025E-01	-2.67570	0.449985			
103	0.106656	2.29693	-0.102355			
104	0.107246	1.75749	-0.173863			
105	0.107435	1.56743	-0.210149			
106	0.107621	1.36127	-0.244418			
107	0.108328	0.502957	-0.290376			
109	0.121207	0.251810	-0.279438			
111	0.151239	-0.652815E-01	-0.279460			
112	0.156442	-0.194685	-0.279470			
113	0.306411E-01	-3.09339	0.771801			
114	0.695704E-01	-3.28711	0.771882			
115	0.109774	-3.40681	0.771942			
116	0.169922	-3.47830	0.772021			
118	0.162669	-3.47731	0.764976			
120	-0.503029E-01	-3.47251	-3.32710			
122	-0.316197E-01	-3.09527	-3.69103			
124	-0.137694E-02	-2.32941	-3.69095			
125	0.655351E-01	-0.416740	-3.69056			
127	0.759969E-01	-0.695770E-02	-3.28908			

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   129    0.359521E-01   -0.410587E-02   -0.686361E-01
   130   -0.234866E-04   -0.773342E-05    0.109924E-03
   131   -0.506211E-01    0.238297        0.600643E-01
   132   -0.259089        0.238311        0.356047
   133   -0.127391E-01   -1.10910         0.286708E-01
   134   -0.183047       -1.10917         0.316529
   304   -0.252932E-05   -0.920329E-06    0.881489E-05
   306   -0.709947E-05   -0.254849E-05    0.288808E-04
   308   -0.118621E-04   -0.432964E-05    0.502384E-04
1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC      15:55:14  OCT 11, 1995 CP=     112.590
FOR SUPPORT CALL                  PHONE                        FAX

 Modal analysis of coupled system of presurizer spray line & building

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


 ***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION *****   FREQUENCY =    8.0609
    LOAD STEP=     1  MODE =  10   CUM. ITER.=    10

 NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

  NODE       UX              UY              UZ              ROTX            ROTY            ROTZ
   310   -0.188478E-04   -0.650925E-05    0.961746E-04
   313   -0.256843E-04   -0.772280E-05    0.122080E-03
  9001    0.437659E-01    0.516919        0.974726
  9002    0.325892E-01    0.528202        1.00368
  9003   -0.119712        0.532264        0.625071
  9004   -0.790011E-01    0.532404        0.229555
  9005    0.227522E-01    0.532383        0.179676
  9006    0.214886        0.532245        0.315833
  9007    1.18190         0.513786       -0.186219
  9008    1.23417         0.461151       -0.617180E-01
  9009   -1.26200         0.520355        0.265834
  9010   -0.304609        0.519432       -5.69897
  9011   -0.701241        0.516741       -2.13843
  9012   -1.19195         0.515691        3.40875
  9013   -0.829284        0.512989        9.23586
  9014   -0.453413E-01    0.511657        6.32534
  9015    0.892777        0.507210       -3.06158
  9016    0.224452        0.505481       -2.21372
  9017   -0.721055       -0.359935       -0.125090
  9018   -0.453095        0.148151       -0.124147
  9019    0.205586        1.53111        -0.121839
  9020   -0.365337E-02   -0.725012        0.139677
  9021    0.157277       -3.52468        0.289455
  9022    0.128801       -1.89222        0.139521
  9023   -0.365479E-01    -3.47508       -0.229608
  9024    0.108615E-01   -0.205618E-02    0.246998

 MAXIMUMS
 NODE          21              81            9013             0               0               0
 VALUE      -2.82909        -4.19528        9.23586            0.              0.              0.
1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC      15:55:14  OCT 11, 1995 CP=     112.630
FOR SUPPORT CALL                  PHONE                        FAX

 Modal analysis of coupled system of presurizer spray line & buildirg

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


 ***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION *****   FREQUENCY =    8.2743
    LOAD STEP=     1  MODE =  11   CUM. ITER.=    11

 NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

  NODE       UX              UY              UZ              ROTX            ROTY            ROTZ
     1    0.7135592E-06    0.411543E-05   -0.318617E-06
     2    0.497442E-02     0.520444E-02    0.497648E-02
     3    0.254335E-01     0.641908E-01    0.664696E-01
     4    0.258728E-01     0.254731        0.313726
     5    0.258518E-01     0.348590        0.490824
     6    0.602426E-02     0.370153        0.531046
     7   -0.420303E-02     0.370164        0.521010
     9   -0.674983E-02     0.370455        0.534568E-02
    10   -0.819275E-02     0.370451        0.886034E-02
    11    0.467983         0.370133        0.127154
    12    0.694339         0.370074        0.176703E-01
    13    0.791376         0.266576        0.205549
    14    0.791358         0.182969        0.353026
    15    0.791314        -0.128562E-01    0.773819
    16    0.791177        -0.524951        1.69664
    17    0.717136        -0.593558        1.87420
    18    0.387312        -0.621563        2.20394
    19   -0.801662E-01    -0.625406        2.67127
    20   -1.29503         -0.300815        3.88562
    21   -1.35454         -0.190970        3.77176
    22   -0.311292E-01    -0.192579       -4.47837
    23    0.342330E-02    -0.192681       -4.33335
    24    0.712289E-01    -0.192866       -3.65597
    25    0.195736        -0.193875        4.65392
    26    0.167955        -0.193960        5.07576
    27   -0.215995        -0.194772        0.859609
    28   -0.323208        -0.194858        0.523626E-01
    29   -0.203609        -0.194968       -0.717401
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    30    0.102309        -0.195432        0.287271E-01
    31    0.101950        -0.195435        0.256891E-01
    32    0.959231E-01    -0.187567        0.938982E-02
    35    0.854060E-01    -0.155147       -0.270301E-02
    37    0.606484E-01     0.109551E-01   -0.255113E-02
    38    0.167765E-02     3.23349        -0.811843E-03
    39   -0.665663E-03     1.20776        -0.625886E-03
    40   -0.326941E-01     0.818795        0.594792E-03
    41    0.225825E-02    -0.100138        0.122218E-02
    43    0.115971E-01     0.133605E-01   -0.926283E-02
    44    0.115960E-01     0.728867E-01   -0.141716E-01
    45    0.115929E-01     0.234018       -0.292822E-01
1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC      15:55:14  OCT 11, 1995 CP=     112.670
FOR SUPPORT CALL                  PHONE                        FAX

 Modal analysis of coupled syst[illegible] [illegible]resurizer spray line & building

**ANSYS VERSION FOR EDUC[illegible]TIO[illegible]  ONLY**


 ***** REDUCED EIGENVECTOR (MOD[illegible]  [illegible]OLUTION *****   FREQUENCY =    8.2743
    LOAD STEP=     1  MODE =  11   CUM. ITER.=    11

 NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

  NODE       UX              UY              UZ              ROTX            ROTY            ROTZ
    46    0.115435E-01     1.33408        -0.407894
    47    0.115407E-01     1.23329        -0.414848
    48    0.115419E-01     1.10779        -0.439888
    49    0.115439E-01     0.952909       -0.426261
    50    0.115455E-01     0.547970       -0.429131
    51    0.115460E-01     0.448482       -0.429209
    52    0.115477E-01     0.585800E-01   -0.425932
    53    0.115541E-01    -1.97497        -0.330630
    54    0.115619E-01    -5.54631         0.112052
    55    0.115621E-01    -5.62575         0.126206
    56   -0.580105E-01    -5.39727         0.197460
    57   -0.969458E-01    -5.02136         0.197688
    58   -0.331498        -4.68469         0.197891
    59   -0.179500        -4.17981         0.198195
    60   -0.220427        -3.67478         0.198490
    61   -0.252084        -3.17090         0.198786
    62   -0.254240        -3.12867         0.198811
    63   -0.264102        -2.08396         0.206290
    64   -0.264922        -0.839581        0.335650
    65   -0.265293        -0.284539        0.399241
    66   -0.265287         0.259195        0.444329
    67   -0.265282         0.709226        0.466741
    68   -0.265252         1.02000         0.473170
    69   -0.265282         1.31795         0.471998
    70   -0.265309         1.57630         0.466243
    71   -0.265367         1.99526         0.437615
    72   -0.265352         2.41376         0.365622
    73   -0.265279         3.86893        -0.147213E-01
    74   -0.265269         3.99905        -0.662092E-01
    75   -0.265247         4.24595        -0.165731
    76   -0.265217         4.47908        -0.254872
    77   -0.265386         4.59407        -0.293127
    78   -0.265224         4.78041        -0.345367
    79   -0.265070         7.06024        -0.324269
    80   -0.265029         7.30355        -0.267713
    81   -0.265019         7.35549        -0.256841
    82   -0.271857         6.87980        -0.246803
    83   -0.686270E-01     0.626513       -0.246171
    84   -0.548938E-01     0.453616       -0.246141
    85   -0.452086E-01     0.339033       -0.246119
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***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC      15:55:14  OCT 11, 1995 CP=     112.710
FOR SUPPORT CALL                  PHONE                        FAX

 Modal analysis of coupled system of presurizer spray line & building

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


 ***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION *****   FREQUENCY =    8.2743
    LOAD STEP=     1  MODE =  11   CUM. ITER.=    11

 NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

  NODE       UX              UY              UZ              ROTX            ROTY            ROTZ
    86   -0.753245E-02     0.786854E-02   -0.7.8435E-01
    87    0.525588E-05     0.222105E-04   -0.665700E-05
    91    0.125283         1.23357        -0.810186
    92    0.561693         1.23460        -2.39115
    93    0.691562         1.81906        -2.96074
    94    0.669851         2.34129        -2.96072
    95    0.630803         3.15276        -2.96069
    96    0.585289         3.96152        -2.96056
    97    0.562645         4.00198        -2.96055
    98    0.178852         4.59306        -2.37459
   100    0.177817         4.59334        -1.70603
   101    0.429154E-01     4.59352        -1.27041
   102   -0.127513         4.59383        -0.728675
   103   -0.179898        -3.79417         0.174964
   104   -0.180667        -2.87851         0.295794
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105	-0.181205	-2.55415	0.357040
106	-0.181516	-2.20181	0.414744
107	-0.182702	-0.734914	0.491536
109	-0.204381	-0.307561	0.473107
111	-0.254921	0.231175	0.473144
112	-0.263731	0.480911	0.473159
113	-0.120188E-01	5.30217	-1.27062
114	-0.106742	5.63524	-1.27076
115	-0.173818	5.84443	-1.27086
116	-0.274474	5.97492	-1.27099
118	-0.261100	5.97574	-1.26113
120	0.876456E-01	5.96780	5.77330
122	0.546848E-01	5.32020	6.39816
124	0.238693E-02	4.00553	6.39801
125	-0.113419	0.717940	6.39792
127	-0.131264	0.118041E-01	5.70492
129	-0.611505E-01	0.697702E-02	0.320827
130	0.122031E-04	0.402924E-04	-0.298541E-04
131	0.885883E-01	-0.284560	-0.102513
132	0.443636	-0.284578	-0.605694
133	0.194137E-01	1.99543	-0.495698E-01
134	0.304623	1.99555	-0.537649
304	0.712305E-06	0.411024E-05	-0.320287E-06
306	0.201020E-05	0.104694E-04	-0.179361E-05
308	0.430817E-05	0.179676E-04	-0.482675E-05

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***** ANSYS - ENGINEERING ANALYSIS SYSTEM REVISION 5.0 *****
40416-2 VERSION=SUN4SPARC 15:55:14 OCT 11, 1995 CP= 113.750
FOR SUPPORT CALL PHONE FAX

Modal analysis of coupled system of presurizer spray line & building

ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY

***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION ***** FREQUENCY = 8.2743
LOAD STEP= 1 MODE = 11 CUM. ITER.= 11

NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

NODE	UX	UY	UZ	ROTX	ROTY	ROTZ
310	0.890553E-05	0.319876E-04	-0.101785E-04			
313	0.135166E-04	0.404050E-04	-0.305638E-04			
9001	0.228788E-01	0.359967	0.516217			
9002	0.153386E-01	0.367585	0.531251			
9003	-0.793362E-01	0.370317	0.324309			
9004	-0.448873E-01	0.370414	0.111922			
9005	-0.182360E-01	0.370386	0.116241			
9006	0.862252E-01	0.370280	0.220813			
9007	0.740643	0.357421	0.250739E-01			
9008	0.777082	0.320721	0.925280E-01			
9009	-0.581034	-0.192540	0.476458E-01			
9010	-0.222397	-0.192077	-3.32180			
9011	0.189469	-0.193226	-1.05092			
9012	0.238556	-0.193563	2.16307			
9013	0.251904E-01	-0.194258	5.25144			
9014	-0.126093	-0.194528	3.45957			
9015	-0.931630E-01	-0.195153	-0.958454			
9016	0.425725E-01	-0.195308	-0.361150			
9017	0.863935E-02	1.21778	-0.197157E-02			
9018	-0.255294E-03	2.57230	-0.139179E-02			
9019	-0.228461E-01	2.31762	-0.156557E-04			
9020	0.115687E-01	1.30540	-0.232087			
9021	-0.265160	6.10121	-0.461261			
9022	-0.213335	3.33123	-0.246496			
9023	0.751665E-01	5.97210	0.445128			
9024	-0.183802E-01	0.350761E-02	-0.429202			

MAXIMUMS						
NODE	21	81	122	0	0	0
VALUE	-1.35454	7.35549	6.39816	0.	0.	0.

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***** ANSYS - ENGINEERING ANALYSIS SYSTEM REVISION 5.0 *****
40416-2 VERSION=SUN4SPARC 15:55:14 OCT 11, 1995 CP= 112.790
FOR SUPPORT CALL PHONE FAX

Modal analysis of coupled system of presurizer spray line & building

ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY

***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION ***** FREQUENCY = 10.177
LOAD STEP= 1 MODE = 12 CUM. ITER.= 12

NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

NODE	UX	UY	UZ	ROTX	ROTY	ROTZ
1	-0.513366E-07	-0.954102E-08	0.454027E-02			
2	0.173313E-02	0.188914E-04	0.628385E-02			
3	0.878567E-02	-0.144987E-04	0.268355E-01			
4	0.878922E-02	0.278326E-04	0.987424E-01			
5	0.879061E-02	-0.503357E-04	0.141308			
6	0.884026E-02	-0.939203E-04	0.152519			
7	0.887365E-02	-0.938996E-04	0.152106			
9	-0.323345E-04	-0.927859E-04	0.246702E-01			
10	-0.123669E-02	-0.927139E-04	0.169183E-01			
11	-0.124078E-01	-0.915536E-04	0.270258E-01			
12	-0.125232E-01	-0.914121E-04	0.343270E-01			
13	-0.125431E-01	-0.722895E-04	0.351370E-01			

14	-0.125428E-01	-0.590148E-04	0.337722E-01
15	-0.125420E-01	-0.312683E-04	0.304439E-01
16	-0.125395E-01	0.686534E-05	0.208006E-01
17	-0.116227E-01	-0.526522E-03	0.186140E-01
18	-0.724243E-02	-0.280919E-02	0.142545E-01
19	-0.438813E-03	-0.578912E-02	0.745193E-02
20	0.195236E-01	-0.121917E-01	-0.125042E-01
21	0.224851E-01	-0.129195E-01	-0.144885E-01
22	0.183480E-02	-0.128985E-01	0.173386E-02
23	0.218048E-03	-0.128958E-01	0.212663E-02
24	-0.165173E-02	-0.128896E-01	0.255823E-02
25	0.574629E-02	-0.128386E-01	0.156752E-02
26	0.645079E-02	-0.128327E-01	0.198919E-02
27	-0.100741E-02	-0.127527E-01	0.423915E-01
28	-0.277493E-02	-0.127411E-01	0.569293E-01
29	-0.490177E-02	-0.127219E-01	0.850102E-01
30	-0.506558E-04	-0.125869E-01	0.881748E-01
31	0.523520E-04	-0.125977E-01	0.869878E-01
32	0.507325E-03	-0.113372E-01	0.839027E-01
33	0.105452E-02	-0.846622E-02	0.826988E-01
34	0.236936E-02	-0.605259E-03	0.826877E-01
35	0.177895E-02	-0.184413E-01	0.824443E-01
36	-0.392745E-04	-0.231206E-01	0.824105E-01
37	0.506923E-02	-0.211493E-01	0.821233E-01
38	-0.457368E-02	-0.410553E-02	0.819791E-01
39	-0.338365E-02	-0.441105E-03	0.807167E-01
40	-0.338370E-02	0.785264E-05	0.802797E-01
41	-0.338377E-02	0.119153E-02	0.794133E-01

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***** ANSYS - ENGINEERING ANALYSIS SYSTEM REVISION 5.0 *****
40416-2 VERSION=SUN4SPARC 15:55:14 OCT 11, 1995 CP= 112.840
FOR SUPPORT CALL PHONE FAX

Modal analysis of coupled system of presurizer spray line & building

ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY

***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION ***** FREQUENCY = 10.177
LOAD STEP= 1 MODE = 12 CUM. ITER.= 12

NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

NODE	UX	UY	UZ	ROTX	ROTY	ROTZ
46	-0.338321E-02	0.877705E-02	0.109028			
47	-0.338313E-02	0.817062E-02	0.110329			
48	-0.338309E-02	0.739247E-02	0.111475			
49	-0.338302E-02	0.580387E-02	0.112975			
50	-0.338278E-02	0.398811E-02	0.113769			
51	-0.338270E-02	0.342664E-02	0.113862			
52	-0.338241E-02	0.141061E-02	0.113603			
53	-0.338065E-02	-0.507541E-02	0.102309			
54	-0.337738E-02	-0.123260E-01	0.747102E-01			
55	-0.337729E-02	-0.125155E-01	0.743320E-01			
56	-0.218136E-02	-0.127376E-01	0.728818E-01			
57	-0.172685E-02	-0.123373E-01	0.728845E-01			
58	-0.143423E-02	-0.120122E-01	0.728864E-01			
59	-0.113521E-02	-0.115906E-01	0.728892E-01			
60	-0.981270E-03	-0.112561E-01	0.728913E-01			
61	-0.906203E-03	-0.110199E-01	0.728933E-01			
62	-0.901813E-03	-0.110049E-01	0.728934E-01			
63	-0.822426E-03	-0.926412E-02	0.730223E-01			
64	-0.841506E-03	-0.391275E-02	0.736656E-01			
65	-0.850177E-03	-0.143592E-02	0.738913E-01			
66	-0.855780E-03	0.102080E-02	0.739974E-01			
67	-0.860533E-03	0.306397E-02	0.740026E-01			
68	-0.863973E-03	0.445544E-02	0.739803E-01			
69	-0.866333E-03	0.580350E-02	0.739334E-01			
70	-0.868242E-03	0.676693E-02	0.738895E-01			
71	-0.872472E-03	0.873434E-02	0.738078E-01			
72	-0.875445E-03	0.104244E-01	0.736309E-01			
73	-0.888618E-03	0.148171E-01	0.783346E-01			
74	-0.890085E-03	0.150065E-01	0.796691E-01			
75	-0.893021E-03	0.152180E-01	0.825620E-01			
76	-0.895911E-03	0.152216E-01	0.851107E-01			
77	-0.892825E-03	0.151526E-01	0.860500E-01			
78	-0.897658E-03	0.149652E-01	0.869305E-01			
79	-0.928714E-03	0.161472E-02	0.494146E-01			
80	-0.934555E-03	-0.181579E-02	0.384644E-01			
81	-0.935994E-03	-0.263106E-02	0.373493E-01			
82	0.114121E-02	-0.331489E-02	0.349393E-01			
83	0.966100E-03	-0.966691E-03	0.348731E-01			
84	0.648247E-03	-0.786522E-03	0.348698E-01			
85	0.446722E-03	-0.643701E-03	0.348673E-01			

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***** ANSYS - ENGINEERING ANALYSIS SYSTEM REVISION 5.0 *****
40416-2 VERSION=SUN4SPARC 15:55:14 OCT 11, 1995 CP= 112.880
FOR SUPPORT CALL PHONE FAX

Modal analysis of coupled system of presurizer spray line & building

ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY

***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION ***** FREQUENCY = 10.177
LOAD STEP= 1 MODE = 12 CUM. ITER.= 12

NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

NODE	UX	UY	UZ	ROTX	ROTY	ROTZ
86	0.332972E-04	-0.282050E-04	0.345459E-01			
87	-0.402984E-06	-0.507946E-07	0.340176E-01			
91	-0.272041E-02	0.817425E-02	0.107742			
92	-0.544820E-03	0.818778E-02	0.981142E-01			
93	-0.504999E-03	0.107324E-01	0.953450E-01			
94	-0.611320E-03	0.124709E-01	0.953402E-01			
95	-0.107122E-02	0.144737E-01	0.953324E-01			
96	-0.107797E-02	0.154992E-01	0.953196E-01			
97	-0.107171E-02	0.155221E-01	0.953189E-01			
98	-0.980004E-03	0.151438E-01	0.944109E-01			
100	-0.105310E-02	0.151483E-01	0.922276E-01			
101	-0.102507E-02	0.151512E-01	0.904973E-01			
102	-0.970198E-03	0.151520E-01	0.880765E-01			
103	-0.113164E-02	-0.100204E-01	0.741883E-01			
104	-0.111270E-02	-0.474294E-02	0.801716E-01			
105	-0.110657E-02	-0.270839E-02	0.809489E-01			
106	-0.110018E-02	-0.565709E-03	0.804957E-01			
107	-0.107658E-02	0.762730E-02	0.742917E-01			
109	-0.124989E-02	0.805231E-02	0.739886E-01			
111	-0.994251E-03	0.674530E-02	0.739639E-01			
112	-0.895875E-03	0.613217E-02	0.739819E-01			
113	0.251455E-03	0.127748E-01	0.905109E-01			
114	0.113385E-02	0.120662E-01	0.905194E-01			
115	0.199352E-02	0.117706E-01	0.905239E-01			
116	0.321373E-02	0.114164E-01	0.905289E-01			
118	0.352648E-02	0.110891E-01	0.909602E-01			
120	-0.331472E-03	0.111628E-01	0.112702			
122	-0.286681E-03	0.104440E-01	0.113397			
124	0.438265E-05	0.881275E-02	0.113395			
125	0.629717E-03	0.229563E-02	0.113379			
127	0.783126E-03	-0.716862E-04	0.110754			
129	0.601336E-03	-0.423167E-04	0.738349E-01			
130	-0.101418E-05	-0.105250E-06	0.716556E-01			
131	0.726821E-03	-0.143608E-02	0.750445E-01			
132	0.231327E-02	-0.143621E-02	0.763217E-01			
133	0.306254E-03	0.873530D-02	0.756045E-01			
134	0.148962E-02	0.873614E-02	0.775318E-01			
304	-0.514766E-07	-0.954863E-08	0.454026E-02			
306	-0.172528E-06	-0.247569E-07	0.152531E-01			
308	-0.322816E-06	-0.417385E-07	0.274336E-01			

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***** ANSYS - ENGINEERING ANALYSIS SYSTEM REVISION 5.0 *****
40416-2 VERSION=SUN4SPARC 15:55:14 OCT 11, 1995 CP= 112.920
FOR SUPPORT CALL PHONE FAX

Modal analysis of coupled system of pressurizer spray line & building

ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY

***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION ***** FREQUENCY = 10.177
LOAD STEP= 1 MODE = 12 CUM. ITER.= 12

NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

NODE	UX	UY	UZ	ROTX	ROTY	ROTZ
310	-0.729150E-06	-0.803287E-07	0.549232E-01			
313	-0.114024E-05	-0.105533E-06	0.825065E-01			
9001	0.879626E-02	-0.698925E-04	0.147170			
9002	0.881372E-02	-0.869396E-04	0.151260			
9003	0.882804E-02	-0.935496E-04	0.134073			
9004	0.591182E-02	-0.931784E-04	0.845142E-01			
9005	-0.694685E-02	-0.923424E-04	-0.317685E-03			
9006	-0.109105E-01	-0.919556E-04	0.742770E-02			
9007	-0.125340E-01	-0.885380E-04	0.553682E-01			
9008	-0.125404E-01	-0.815768E-04	0.356809E-01			
9009	0.205741E-01	-0.129160E-01	-0.478533E-02			
9010	0.124044E-01	-0.129090E-01	-0.155625E-02			
9011	-0.136366E-02	-0.128750E-01	0.235954E-02			
9012	0.209354E-02	-0.128580E-01	0.153541E-02			
9013	0.691590E-02	-0.128067E-01	0.640882E-02			
9014	0.390728E-02	-0.127821E-01	0.179478E-01			
9015	-0.628770E-02	-0.126838E-01	0.128750			
9016	-0.408021E-02	-0.126429E-01	0.128076			
9017	0.572640E-02	0.101840E-01	0.826211E-01			
9018	0.555552E-02	-0.625691E-03	0.825400E-01			
9019	-0.649314E-02	-0.299229E-01	0.822750E-01			
9020	-0.338372E-02	0.852063E-02	0.906061E-01			
9021	-0.913252E-03	0.101738E-01	0.766317E-01			
9022	0.480712E-02	-0.203410E-02	0.349081E-01			
9023	0.166538E-02	0.111269E-01	0.103159			
9024	0.213851E-03	-0.212049E-04	0.691339E-01			

MAXIMUMS

NODE	21	9019	6	0	0	0
VALUE	0.224851E-01	-0.299229E-01	0.152519	0.	0.	0.

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***** ANSYS - ENGINEERING ANALYSIS SYSTEM REVISION 5.0 *****
40416-2 VERSION=SUN4SPARC 15:55:14 OCT 11, 1995 CP= 112.950
FOR SUPPORT CALL PHONE FAX

Modal analysis of coupled system of pressurizer spray line & building

ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY

***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION ***** FREQUENCY = 10.627
LOAD STEP= 1 MODE = 13 CUM. ITER.= 13

NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

NODE	UX	UY	UZ	ROTX	ROTY	ROTZ
1	0.721981E-05	-0.490178E-06	-0.240520E-04			
2	0.203170	-0.106198E-01	0.203147			
3	1.02425	-0.782294E-01	2.59968			
4	1.02464	-0.199352	10.9871			
5	1.02478	-0.265505	15.9495			
6	1.04055	-0.282100	17.1959			
7	1.04890	-0.282106	17.1096			
9	0.612654E-02	-0.282063	1.02620			
10	-0.103116	-0.282035	0.165414			
11	-1.24341	-0.281289	3.16962			
12	-1.40304	-0.281174	4.24782			
13	-1.47281	-0.205842	4.41598			
14	-1.47277	-0.144059	4.26115			
15	-1.47266	0.113925E-02	3.88084			
16	-1.47230	0.377920	2.75916			
17	-1.36393	0.387721	2.50344			
18	-0.842688	0.258404	1.98234			
19	-0.267809E-01	0.119499	1.16662			
20	2.38665	-0.877138E-01	-1.24644			
21	2.68438	-0.107873	-1.51619			
22	0.182836	-0.106409	0.125942			
23	0.191978E-01	-0.106295	0.187165			
24	-0.180062	-0.106065	0.267906			
25	0.478347	-0.104546	-0.124350			
26	0.553220	-0.104391	-0.186717			
27	-0.627176E-01	-0.102549	-0.963534E-01			
28	-0.225600	-0.102305	-0.662091E-03			
29	-0.421420	-0.101922	0.139524			
30	0.199461	-0.996410E-01	0.583468E-01			
31	0.213176	-0.996197E-01	0.508027E-01			
32	0.259627	-0.910381E-01	0.302839E-01			
35	0.296990	-0.702321E-01	0.217055E-01			
37	0.357412	-0.968904E-02	0.216853E-01			
38	0.666297E-01	-0.195732	0.214194E-01			
39	0.239299E-02	-0.229529	0.213488E-01			
40	-0.778554E-01	-0.150688	0.211693E-01			
41	-0.110328E-01	-0.138485E-01	0.210689E-01			
43	-0.300024E-02	-0.124229E-02	0.134086E-01			
44	-0.299729E-02	-0.257670E-02	0.107806E-01			
45	-0.298545E-02	-0.587588E-02	0.444680E-02			

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***** ANSYS - ENGINEERING ANALYSIS SYSTEM REVISION 5.0 *****
40416-2 VERSION=SUN4SPARC 15:55:14 OCT 11, 1995 CP= 113.000
FOR SUPPORT CALL PHONE FAX

Modal analysis of coupled system of pressurizer spray line & building

ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY

***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION ***** FREQUENCY = 10.627
LOAD STEP= 1 MODE = 13 CUM. ITER.= 13

NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

NODE	UX	UY	UZ	ROTX	ROTY	ROTZ
46	-0.287030E-02	-0.144779E-01	-0.645027E-02			
47	-0.286399E-02	-0.132304E-01	-0.560266E-02			
48	-0.285974E-02	-0.118000E-01	-0.486595E-02			
49	-0.285266E-02	-0.907735E-02	-0.373153E-02			
50	-0.284539E-02	-0.613988E-02	-0.270489E-02			
51	-0.284321E-02	-0.525922E-02	-0.241894E-02			
52	-0.283521E-02	-0.219916E-02	-0.145834E-02			
53	-0.279849E-02	0.573336E-02	0.105220E-02			
54	-0.276821E-02	0.900110E-02	-0.100506E-02			
55	-0.274507E-02	0.906554E-02	-0.112997E-02			
56	-0.199807E-02	0.812044E-02	-0.183357E-02			
57	-0.155985E-00	0.727923E-02	-0.183418E-02			
58	-0.121001E-02	0.651509E-02	-0.183472E-02			
59	-0.738148E-03	0.535797E-02	-0.183551E-02			
60	-0.329070E-03	0.419707E-02	-0.183626E-02			
61	0.22[illegible]	0.304588E-02	-0.183700E-02			
62	0.45[illegible]	0.295007E-02	-0.183706E-02			
63	0.360471E-03	0.557516E-03	-0.158737E-02			
64	0.359561E-03	-0.273493E-02	-0.127728E-02			
65	0.359145E-03	-0.421351E-02	-0.120936E-02			
66	0.356126E-03	-0.561605E-02	-0.113444E-02			
67	0.353561E-03	-0.674490E-02	-0.106853E-02			
68	0.351934E-03	-0.750068E-02	-0.102231E-02			
69	0.350296E-03	-0.820860E-02	-0.982680E-03			
70	0.349184E-03	-0.871043E-02	-0.961150E-03			
71	0.346715E-03	-0.971241E-02	-0.940470E-03			
72	0.342980E-03	-0.105528E-01	-0.960134E-03			
73	0.326355E-03	-0.139900E-01	-0.245448E-02			
74	0.324486E-03	-0.144921E-01	-0.286801E-02			
75	0.320736E-03	-0.156659E-01	-0.376244E-02			
76	0.316968E-03	-0.171253E-01	-0.456178E-02			
77	0.313692E-03	-0.179829E-01	-0.485645E-02			
78	0.314976E-03	-0.195198E-01	-0.516594E-02			
79	0.319997E-03	-0.406043E-01	-0.553264E-03			
80	0.320927E-03	-0.431734E-01	0.794492E-03			
81	0.321156E-03	-0.437334E-01	0.107635E-02			
82	0.522069E-04	-0.417267E-01	0.139215E-02			
83	0.760855E-04	-0.408742E-02	0.139891E-02			
84	0.942004E-04	-0.294249E-02	0.139920E-02			
85	0.101468E-03	-0.218391E-02	0.139940E-02			

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***** ANSYS - ENGINEERING ANALYSIS SYSTEM REVISION 5.0 *****
40416-2 VERSION=SUN4SPARC 15:55:14 OCT 11, 1995 CP= 113.040
FOR SUPPORT CALL PHONE FAX

Modal analysis of coupled system of pressurizer spray line & building

ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY

***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION ***** FREQUENCY = 10.627
LOAD STEP= 1 MODE = 13 CUM. ITER.= 13

NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

NODE	UX	UY	UZ	ROTX	ROTY	ROTZ
86	0.687936E-04	-0.474251E-04	0.213471E-03			
87	0.376490E-04	-0.239260E-05	-0.298622E-03			
91	-0.410862E-02	-0.132344E-01	-0.622249E-02			
92	-0.824969E-02	-0.132493E-01	-0.604304E-02			
93	-0.944469E-02	-0.141416E-01	-0.527335E-02			
94	-0.915568E-02	-0.150246E-01	-0.526902E-02			
95	-0.859732E-02	-0.163555E-01	-0.526234E-02			
96	-0.800142E-02	-0.174761E-01	-0.525537E-02			
97	-0.797273E-02	-0.175239E-01	-0.525501E-02			
98	-0.589248E-02	-0.179690E-01	-0.549035E-02			
100	-0.380863E-02	-0.179737E-01	-0.536457E-02			
101	-0.246375E-02	-0.179769E-01	-0.520161E-02			
102	-0.866535E-03	-0.179802E-01	-0.498487E-03			
103	-0.735081E-03	0.453135E-02	-0.147585E-02			
104	-0.727407E-03	0.165747E-02	-0.161336E-02			
105	-0.724915E-03	0.554521E-03	-0.176381E-02			
106	-0.722383E-03	-0.595085E-03	-0.187408E-02			
107	-0.712626E-03	-0.492465E-02	-0.128266E-02			
109	-0.432475E-03	-0.576887E-02	-0.102194E-02			
111	0.144901E-03	-0.649821E-02	-0.102216E-02			
112	0.257816E-03	-0.678121E-02	-0.102225E-02			
113	-0.255277E-02	-0.177404E-01	-0.520188E-02			
114	-0.256673E-02	-0.175845E-01	-0.520201E-02			
115	-0.254014E-02	-0.173792E-01	-0.520188E-02			
116	-0.244135E-02	-0.169740E-01	-0.520158E-02			
118	-0.273882E-02	-0.167949E-01	-0.539001E-02			
120	-0.868345E-03	-0.167861E-01	-0.222744E-01			
122	-0.411207E-03	-0.151165E-01	-0.238659E-01			
124	0.261659E-04	-0.116105E-01	-0.238650E-01			
125	0.103012E-02	-0.222327E-02	-0.238605E-01			
127	0.111462E-02	-0.285742E-04	-0.216581E-01			
129	0.275751E-03	-0.187136E-04	-0.127086E-02			
130	0.569871E-04	-0.453839E-05	-0.680953D-03			
131	-0.554269E-03	-0.421402E-02	-0.400218E-03			
132	-0.147519E-02	-0.421446E-02	0.412040E-03			
133	-0.241131E-03	-0.971358E-02	-0.483303E-03			
134	-0.832799E-03	-0.971460E-02	-0.243685E-04			
304	0.720404E-05	-0.486620E-06	-0.242176E-04			
306	0.177115E-04	-0.116575E-05	-0.110954E-03			
308	0.294668E-04	-0.195506E-05	-0.232037E-03			

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***** ANSYS - ENGINEERING ANALYSIS SYSTEM REVISION 5.0 *****
40416-2 VERSION=SUN4SPARC 15:55:14 OCT 11, 1995 CP= 113.080
FOR SUPPORT CALL PHONE FAX

Modal analysis of coupled system of pressurizer spray line & building

ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY

***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION ***** FREQUENCY = 10.627
LOAD STEP= 1 MODE = 13 CUM. ITER.= 13

NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

NODE	UX	UY	UZ	ROTX	ROTY	ROTZ
310	0.468501E-04	-0.356893E-05	-0.510677E-03			
313	0.631778E-04	-0.457342E-05	-0.791945E-03			
9001	1.02709	-0.274084	16.6250			
9002	1.03302	-0.280040	17.0799			
9003	1.04200	-0.282161	14.3355			
9004	0.648990	-0.282147	8.04764			
9005	-0.566360	-0.281837	-1.46436			
9006	-0.909903	-0.281588	0.112721			
9007	-1.43606	-0.272114	4.40527			
9008	-1.46238	-0.245536	4.46797			
9009	2.13482	-0.107417	-0.825560			
9010	1.23794	-0.106929	-0.293682			
9011	-0.193337	-0.105580	0.277365			
9012	0.118275	-0.105074	0.112975			
9013	0.634526	-0.103801	-0.335782			
9014	0.382880	-0.103187	-0.298621			
9015	-0.536168	-0.101188	0.311515			
9016	-0.283551	-0.100427	0.280595			
9017	0.435873	0.582137E-01	0.216008E-01			
9018	0.298899	-0.493505E-01	0.215122E-01			
9019	-0.101940	-0.252844	0.212813E-01			
9020	-0.293009E-02	-0.189421E-01	-0.140260E-01			
9021	0.317511E-03	-0.311805E-01	-0.428532E-02			
9022	-0.354960E-03	-0.234596E-01	0.139561E-02			
9023	-0.360034E-02	-0.167920E-01	-0.990784E-02			
9024	0.871004E-04	-0.116241E-04	0.869171E-03			

MAXIMUMS

NODE	21	17	6	0	0	0
VALUE	2.68438	0.387721	17.1959	0.	0.	0.

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***** ANSYS - ENGINEERING ANALYSIS SYSTEM REVISION 5.0 *****
40416-2 VERSION=SUN4SPARC 15:55:14 OCT 11, 1995 CP= 113.110
FOR SUPPORT CALL PHONE FAX

Modal analysis of coupled system of pressurizer spray line & building

ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY

***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION ***** FREQUENCY = 12.034
LOAD STEP= 1 MODE = 14 CUM. ITER.= 14

NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

NODE	UX	UY	UZ	ROTX	ROTY	ROTZ
1	0.666690E-02	0.147656E-07	0.212532E-06			
2	0.655505E-02	-0.314026E-04	-0.135070E-03			
3	0.594070E-02	-0.210441E-03	-0.199723E-02			
4	0.594769E-02	-0.168355E-02	-0.905864E-02			
5	0.595082E-02	-0.336243E-02	-0.132079E-01			
6	0.668057E-02	-0.403193E-02	-0.142065E-01			
7	0.717615E-02	-0.403172E-02	-0.141226E-01			
9	0.190244E-01	-0.401556E-02	-0.646603E-03			
10	0.184752E-01	-0.401416E-02	-0.207808E-03			
11	-0.343579E-02	-0.398748E-02	-0.927523E-02			
12	-0.702242E-02	-0.398389E-02	-0.107013E-01			
13	-0.822847E-02	-0.279394E-02	-0.100835E-01			
14	-0.822860E-02	-0.196490E-02	-0.925805E-02			
15	-0.822680E-02	-0.282776E-03	-0.741530E-02			
16	-0.822847E-02	0.262130E-02	-0.302491E-02			
17	-0.857001E-02	0.308814E-02	-0.220090E-02			
18	-0.100513E-01	0.397335E-02	-0.718403E-03			
19	-0.120525E-01	0.462560E-02	0.128464E-02			
20	-0.166683E-01	0.243145E-02	0.590663E-02			
21	-0.155660E-01	0.152003E-02	0.624441E-02			
22	0.337392E-01	0.152238E-02	0.671271E-03			
23	0.328623E-01	0.152235E-02	0.144968E-03			
24	0.300645E-01	0.152210E-02	-0.118967E-02			
25	-0.145034E-01	0.151853E-02	-0.140952E-02			
26	-0.175203E-01	0.151801E-02	-0.718931E-03			
27	0.606618E-02	0.150954E-02	0.122062E-02			
28	0.111290E-01	0.150665E-02	-0.777579E-04			
29	0.160089E-01	0.150645E-02	-0.258567E-02			
30	-0.221992E-01	0.149153E-02	-0.388698E-02			
31	-0.237699E-01	0.149138E-02	-0.376756E-02			
32	-0.232150E-01	0.135820E-02	-0.344592E-02			
35	-0.217172E-01	0.103587E-02	-0.331280E-02			
37	-0.128557E-01	0.613520E-04	-0.331208E-02			
38	0.643212E-01	-0.582054E-03	-0.329738E-02			
39	0.707765E-01	0.821539E-04	-0.329537E-02			
40	0.993622E-01	0.198014E-02	-0.327854E-02			
41	0.882266E-01	-0.121066E-03	-0.327016E-02			
43	0.867825E-01	-0.669664E-04	-0.194515E-02			
44	0.867808E-01	0.113870E-03	-0.152142E-02			
45	0.867746E-01	0.577201E-03	-0.540715E-03			

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***** ANSYS - ENGINEERING ANALYSIS SYSTEM REVISION 5.0 *****
40416-2 VERSION=SUN4SPARC 15:55:14 OCT 11, 1995 CP= 113.160
FOR SUPPORT CALL PHONE FAX

Modal analysis of coupled system of pressurizer spray line & building

ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY

***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION ***** FREQUENCY = 12.034
LOAD STEP= 1 MODE = 14 CUM. ITER.= 14

NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

NODE	UX	UY	UZ	ROTX	ROTY	ROTZ
46	0.866245E-01	0.469487E-05	-0.471145E-02			
47	0.866148E-01	-0.646830E-03	-0.544404E-02			
48	0.866011E-01	-0.121054E-02	-0.616918E-02			
49	0.865779E-01	-0.161149E-02	-0.729961E-02			
50	0.865484E-01	-0.118071E-02	-0.829992E-02			
51	0.865395E-01	-0.119571E-02	-0.856985E-02			
52	0.865061E-01	-0.924410E-04	-0.942531E-02			
53	0.863431E-01	0.114685E-01	-0.101798E-01			
54	0.860780E-01	0.420433E-01	-0.679260E-03			
55	0.860716E-01	0.428003E-01	-0.339925E-03			
56	0.841113E-01	0.435445E-01	0.152532E-02			
57	0.831077E-01	0.418250E-01	0.152391E-02			
58	0.825169E-01	0.401890E-01	0.152265E-02			
59	0.819185E-01	0.377343E-01	0.152074E-02			
60	0.815550E-01	0.352871E-01	0.151842E-02			
61	0.813317E-01	0.328684E-01	0.151689E-02			
62	0.811162E-01	0.326673E-01	0.151673E-02			
63	0.810726E-01	0.251925E-01	0.120216E-02			
64	0.811004E-01	0.114422E-01	-0.162021E-03			
65	0.811122E-01	0.530485E-02	-0.711453E-03			
66	0.811318E-01	-0.602568E-03	-0.107444E-02			
67	0.811481E-01	-0.530813E-02	-0.126197E-02			
68	0.811591E-01	-0.840779E-02	-0.133990E-02			
69	0.811700E-01	-0.112649E-01	-0.137790E-02			

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     70    0.811779E-01   -0.132410E-01   -0.138172E-02
     71    0.811952E-01   -0.170005E-01   -0.133267E-02
     72    0.812179E-01   -0.196847E-01   -0.123424E-02
     73    0.813675E-01   -0.181474E-01   -0.710312E-03
     74    0.813817E-01   -0.166606E-01   -0.697847E-03
     75    0.8140978-01   -0.129284E-01   -0.67 572E-03
     76    0.814318E-01   -0.823351E-02   -0.588207E-03
     77    0.814430E-01   -0.558261E-02   -0.496030E-03
     78    0.814490E-01   -0.960960E-03   -0.431716E-03
     79    0.8149466-01    0.713605E-01   -0.816262E-02
     80    0.8149556-01    0.825910E-01   -0.721261E-02
     81    0.814954E-01    0.851577E-01   -0.666713E-02
     82    0.801271E-01    0.830245E-01   -0.552263E-02
     83    0.441881E-01    0.691698E-02   -0.553638E-02
     84    0.428033E-01    0.461940E-02   -0.553692E-02
     85    0.418845E-01    0.310133E-02   -0.553730E-02
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***** ANSYC - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC     15:55:14  OCT 11, 1995 CP=     113.200
FOR SUPPORT CALL                    PHONE                    FAX

 Modal analysis of coupled system of presurizer spray line & building

 **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


 ***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION *****   FREQUENCY =    12.034
    LOAD STEP=     1  MODE =  14   CUM. ITER.=     14

 NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

   NODE       UX              UY              UZ              ROTX            ROTY            ROTZ
     86    0.386571E-01   -0.458219E-03   -0.169034E-02
     87    0.381817E-01    0.8220545-07    0.162258E-05
     91    0.874898E-01   -0.647461E-03   -0.437463E-02
     92    0.931155E-01   -0.649816E-03   -0.538769E-03
     93    0.969263E-01   -0.176941E-02    0.622003E-03
     94    0.980089E-01   -0.265223E-02    0.622386E-03
     95    0.995771E-01   -0.388721E-02    0.622973E-03
     96    0.100934       -0.494440E-02    0.623514E-03
     97    0.100999       -0.499252E-02    0.623541E-03
     98    0.978736E-02   -0.558150E-02    0.128773E-03
    100    0.927423E-01   -0.558209E-02   -0.236443E-03
    101    0.892724E-01   -0.558248E-02   -0.393515E-03
    102    0.848847E-01   -0.558256E-02   -0.493071E-03
    103    0.819312E-01    0.338311E-01    0.969693E-03
    104    0.819604E-01    0.244406E-01    0.124605E-03
    105    0.819681E-01    0.208286E-01   -0.580389E-04
    106    0.819696E-01    0.167209E-01   -0.229581E-03
    107    0.819682E-01   -0.865628E-03   -0.114856E-02
    108    0.817678E-01   -0.194347E-02   -0.134019E-02
    111    0.815569E-01   -0.594055E-02   -0.134003E-02
    112    0.812657E-01   -0.566101E-02   -0.133995E-02
    113    0.926634E-01   -0.589276E-02   -0.393603E-03
    114    0.965869E-01   -0.613070E-02   -0.393659E-03
    115    0.101107       -0.633662E-02   -0.393690E-03
    116    0.108282       -0.653659E-02   -0.393727E-03
    118    0.111535       -0.655915E-02   -0.388419E-03
    120    0.672903E-01   -0.655939E-02   -0.833544E-02
    122    0.667791E-01   -0.587897E-02   -0.899353E-02
    124    0.713436E-01   -0.449029E-02   -0.899326E-02
    125    0.831512E-01   -0.852676E-03   -0.899160E-02
    127    0.673884E-01   -0.677504E-05   -0.814196E-02
    129    0.934025E-01   -0.395290E-05   -0.226349E-03
    130    0.696939E-01    0.103893E-06    0.514302E-05
    131    0.771606E-01    0.530567E-02    0.106196E-02
    132    0.733999E-01    0.530638E-02    0.284988E-02
    133    0.789559E-01   -0.170031E-01   -0.952171E-04
    134    0.770102E-01   -0.170054E-01    0.114338E-02
    304    0.668690E-02    0.147053E-07    0.212701E-06
    306    0.184230E-01    0.363231E-07    0.729475E-06
    308    0.321366E-01    0.646378E-07    0.131957E-05
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***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC     15:55:14  OCT 11, 1995 CP=     113.240
FOR SUPPORT CALL                    PHONE                    FAX

 Modal analysis of coupled system of presurizer spray line & building

 **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


 ***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION *****   FREQUENCY =    12.034
    LOAD STEP=     1  MODE =  14   CUM. ITER.=     14

 NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

   NODE       UX              UY              UZ              ROTX            ROTY            ROTZ
     310   0.561859E-01    0.943972E-07    0.251864E-05
     311   0.786544E-01    0.104873E-06    0.370140E-05
    9001   0.603729E-02   -0.367538E-02   -0.137607E-01
    9002   0.629474E-02   -0.392992E-02   -0.141240E-01
    9003   0.162718E-01   -0.402762E-02   -0.115362E-01
    9004   0.209334E-01   -0.402223E-02   -0.596780E-02
    9005   0.144224E-01   -0.400619E-02   -0.103478E-02
    9006   0.677302E-02   -0.399729E-02   -0.483625E-02
    9007  -0.763223E-02   -0.381949E-02   -0.107985E-01
    9008  -0.807049E-02   -0.338149E-02   -0.105762E-01
    9009   0.876979E-02    0.152139E-02    0.529351E-02
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    9010   0.293025E-01    0.752217E-02    0.389539E-02
    9011   0.185693E-01    0.152131E-02   -0.308617E-02
    9012   0.127688E-02    0.152012E-02   -0.314676E-02
    9013  -0.202124E-01    0.151597E-02    0.179179E-02
    9014  -0.991584E-02    0.151304E-02    0.281454E-02
    9015   0.140297E-01    0.150197E-02   -0.677330E-02
    9016  -0.108101E-02    0.149700E-02   -0.730770E-02
    9017   0.188765E-01   -0.222688E-02   -0.330800E-02
    9018   0.448515E-01   -0.221675E-02   -0.330310E-02
    9019   0.941120E-01    0.190348E-02   -0.328741E-02
    9020   0.867078E-01    0.260894E-02    0.733981E-03
    9021   0.814796E-01    0.360730E-01   -0.446022E-02
    9022   0.636114E-01    9.420442E-01   -0.552993E-02
    9023   0.102700       -0.656002E-02   -0.247276E-02
    9024   0.806083E-01   -0.192394E-05    0.6495015-03

 MAXIMUM
 NODE          118              81               6               0               0               0
 VALUE     0.111535         0.851577E-01    -0.142065E-01        0.              0.              0.
1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC     15:55:14  OCT 11, 1995 CP=     113.270
FOR SUPPORT CALL                    PHONE                    FAX

 Modal analysis of coupled system of presurizer spray line & building

 **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


 ***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION *****   FREQUENCY =    13.082
    LOAD STEP=     1  MODE =  15   CUM. ITER.=     15

 NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

   NODE       UX              UY              UZ              ROTX            ROTY            ROTZ
      1   -0.471950E-04    0.476871E-05    0.139500E-04
      2    0.755104E-03   -0.267417E-02    0.858028E-03
      3    0.439087E-02   -0.398434E-01    0.117784E-01
      4    0.434279E-02   -0.141056        0.502548E-01
      5    0.431828E-02   -0.185874        0.700608E-01
      6    0.110145E-01   -0.191888        0.750368E-01
      7    0.137266E-01   -0.191894        0.753824E-01
      9    0.725953E-02   -0.191847        0.534475E-02
     10    0.318763E-01   -0.191818        0.100432E-02
     11    0.101215       -0.191047        0.640101E-01
     12   -0.718149E-02   -0.190929        0.849965E-01
     13   -0.546863E-01   -0.140200        0.647633E-01
     14   -0.546844E-01   -0.995389E-01    0.435613E-01
     15   -0.546794E-01   -0.616602E-02   -0.333422E-02
     16   -0.546617E-01    0.222656       -0.114563
     17   -0.457749E-01    0.262838       -0.135892
     18   -0.639541E-02    0.325211       -0.175254
     19    0.487597E-01    0.405779       -0.230424
     20    0.187735        0.544887       -0.369355
     21    0.164078        0.552029       -0.352268
     22   -0.381559E-01    0.550868        0.343544
     23   -0.296969E-02    0.550702        0.271025
     24    0.538568E-01    0.550304        0.929520E-01
     25   -0.621366E-02    0.546976       -0.452840
     26   -0.338156E-01    0.546580       -0.373744
     27   -0.390957E-01    0.541227        0.181262
     28   -0.766932E-04    0.540440       -0.234391E-01
     29    0.576447E-01    0.539146       -0.479665
     30    0.487131E-02    0.530789       -0.122361
     31    0.213195E-02    0.530707       -0.832864E-01
     32   -0.700896E-02    0.485940        0.239052E-01
     35   -0.147227E-01    0.374954        0.694309E-01
     37   -0.302459E-01    0.343830E-01    0.695178E-01
     38   -0.274201E-01    0.971465E-01    0.703579E-01
     39   -0.539708E-02    0.318984        0.704368E-01
     40    0.239295        0.732362        0.708618E-01
     41    0.396124        0.132682        0.710172E-01
     43    0.423754        0.169070E-01    0.415618E-01
     44    0.423747        0.129719E-01    0.291159E-01
     45    0.423718        0.299146E-02   -0.569116E-02
1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC     15:55:14  OCT 11, 1995 CP=     113.310
FOR SUPPORT CALL                    PHONE                    FAX

 Modal analysis of coupled system of presurizer spray line & building

 **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


 ***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION *****   FREQUENCY =    13.082
    LOAD STEP=     1  MODE =  15   CUM. ITER.=     15

 NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

   NODE       UX              UY              UZ              ROTX            ROTY            ROTZ
     46    0.422953       -0.352029       -0.882891
     47    0.422902       -0.394795       -0.949283
     48    0.422454       -0.422634        -1.01248
     49    0.421707       -0.396557        -1.09578
     50    0.420921       -0.284138        -1.14997
     51    0.420685       -0.234040        -1.16060
     52    0.419817        0.107396E-01    -1.17796
     53    0.415894        2.06708         -0.914248
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     54    0.409971          6.96631         -0.118091
     55    0.409842          7.08433         -0.105237
     56    0.356943          7.05627         -0.486716E-01
     57    0.334183          6.67546         -0.488654E-01
     58    0.322715          6.33270         -0.490167E-01
     59    0.313562          5.81768         -0.492599E-01
     60    0.309980          5.32240         -0.495002E-01
     61    0.307428          4.79415         -0.497404E-01
     62    0.307114          4.75174         -0.497606E-01
     63    0.292224          3.43715         -0.749377E-01
     64    0.293702          1.35468         -0.205020
     65    0.294371         0.4488556        -0.256048
     66    0.293970         -0.403893        -0.284572
     67    0.293628          -1.08765        -0.293699
     68    0.293388          -1.52955        -0.293050
     69    0.293114          -1.93067        -0.287242
     70    0.292925          -2.30382        -0.279888
     71    0.292504          -2.70586        -0.256294
     72    0.292196          -3.03997        -0.225779
     73    0.290815          -2.65351        -0.671315E-01
     74    0.290654          -2.43896        -0.534572E-01
     75    0.290328          -1.91872        -0.269268E-01
     76    0.289978          -1.28841         0.446363E-02
     77    0.289899         -0.941579         0.219645E-01
     78    0.289785         -0.504324         0.506457E-01
     79    0.289170           14.1456        -0.571478
     80    0.289020           16.7406        -0.695399
     81    0.288982           17.3355        -0.717142
     82    0.300797           17.0179        -0.735764
     83    0.520916E-01       1.64288        -0.736091
     84    0.502664E-01       1.16181        -0.736093
     85    0.507881E-01      0.842076        -0.736094
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
 40416-2          VERSION=SUN4SPARC      15:55:15  OCT 11, 1995 CP=    113.360
 FOR SUPPORT CALL                    PHONE                    FAX

  Modal analysis of coupled system of pressurizer spray line & building

 **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


  ***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION *****   FREQUENCY =   13.082
     LOAD STEP=      1  MODE =  15   CUM. ITER.=     15

  NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

    NODE       UX              UY              UZ              ROTX            ROTY            ROTZ
      86    0.961545E-02   -0.818592E-02   -0.228442
      87   -0.262703E-03    0.258408E-04    0.940378E-04
      91    0.487638         -0.394843       -0.773936
      92    0.987042         -0.395002       -0.180107
      93     1.43301         -0.544136       -0.186266E-01
      94     1.62724         -0.651204       -0.185463E-01
      95     1.92822         -0.789222       -0.184228E-01
      9.     2.21451         -0.893235       -0.182976E-01
      97     2.22828         -0.897578       -0.182913E-01
      98     2.03516         -0.741827       -0.480682E-01
     100     1.53822         -0.941806       -0.498706E-01
     101     1.18397         -0.941788       -0.388535E-01
     102    0.705316         -0.941674       -0.105369E-01
     103    0.313559          5.23055        -0.674107E-01
     104    0.313541          3.86544        -0.155149
     105    0.313527          3.32328        -0.185089
     106    0.313486          2.69020        -0.211400
     107    0.313294         -0.737302E-01   -0.284906
     109    0.305164         -0.598644       -0.293073
     111    0.291945          -1.01088       -0.293060
     112    0.290752          -1.16148       -0.293055
     113     1.33388         -0.935526       -0.388763E-01
     114     1.43875         -0.947767       -0.388918E-01
     115     1.53467         -0.962488       -0.389043E-01
     116     1.65668         -0.975433       -0.389216E-01
     118     1.77398         -0.972995       -0.442576E-01
     120    0.304448         -0.973671        -1.36735
     122    0.136987         -0.873756        -1.46443
     124    0.114252E-01     -0.670656        -1.46439
     125   -0.283323         -0.130262        -1.46408
     127   -0.293918         -0.477220E-03    -1.33245
     129    0.270524E-02     -0.266522E-03   -0.406093E-01
     130   -0.472746E-03     0.363646E-04    0.182107E-03
     131   -0.270696          0.448738        0.131838
     132   -0.839935          0.448809        0.522194
     133    0.186847E-01      -2.70635       -0.406133E-02
     134   -0.255097          -2.70678        0.248654
     304   -0.471935E-04     0.477231E-05    0.139488E-04
     306   -0.128693E-03     0.123349E-04    0.452307E-04
     308   -0.222514E-03     0.209734E-04    0.780446E-04
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
 40416-2          VERSION=SUN4SPARC      15:55:15  OCT 11, 1995 CP=    113.400
 FOR SUPPORT CALL                    PHONE                    FAX

  Modal analysis of coupled system of pressurizer spray line & building

 **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


  ***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION *****   FREQUENCY =   13.082
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     LOAD STEP=      1  MODE =  15   CUM. ITER.=     15

  NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

    NODE       UX              UY              UZ              ROTX            ROTY            ROTZ
     310   -0.384898E-0.    0.317674E-04    0.145276E-03
     313   -0.536072E-03    0.367959E-04    0.217996E-03
    9001    0.548267E-02     -0.188352       0.725515E-01
    9002    0.814278E-02     -0.191072       0.743280E-01
    9003   -0.184215E-03     -0.191951       0.706221E-01
    9004   -0.409861E-01     -0.191935       0.421838E-01
    9005    0.179536         -0.191614      -0.306702E-02
    9006    0.244038         -0.191356       0.189982E-01
    9007   -0.298078E-01     -0.188724       0.652506E-01
    9008   -0.476814E-01     -0.186710       0.779815E-01
    9009   -0.144114         -0.181689       0.116053
    9010   -0.183811          0.551502       0.435308
    9011    0.110996          0.549365      -0.304272
    9012    0.815677E-01      0.548255      -0.538845
    9013   -0.112810          0.544986       0.258378E-01
    9014   -0.115389          0.543202       0.319028
    9015    0.123895          0.536568       -1.26479
    9016    0.987133E-01      0.533782       -1.20927
    9017   -0.780949E-01     -0.681059       0.698182E-01
    9018   -0.808860E-01     -0.539689       0.700883E-01
    9019    0.108263          0.824838       0.706607E-01
    9020    0.423383         -0.967094E-01   -0.361308
    9021    0.289512           6.40594       -0.131906
    9022    0.191897           8.82070       -0.735995
    9023     1.64122         -0.973465       -0.4C0091
    9024   0.195968E-01      -0.115036E-03    0.107716

 MAXIMUMS
 NODE          97              81              122             0               0               0
 VALUE      2.22828         17.3355         -1.46443           0.              0.              0.
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
 40416-2          VERSION=SUN4SPARC      15:55:15  OCT 11, 1995 CP=    113.430
 FOR SUPPORT CALL                    PHONE                    FAX

  Modal analysis of coupled system of pressurizer spray line & building

 **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


  ***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION *****   FREQUENCY =   13.438
     LOAD STEP=      1  MODE =  16   CUM. ITER.=     16

  NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

    NODE       UX              UY              UZ              ROTX            ROTY            ROTZ
       1   -0.290286E-05   -0.112641E-04   -0.299690E-04
       2   -0.456012E-02    0.287789E-01   -0.474922E-02
       3   -0.260063E-01    0.312625       -0.699508E-01
       4   -0.256250E-01     1.10760       -0.294501
       5   -0.254300E-01     1.44257       -0.409166
       6   -0.775142E-01     1.50502       -0.439355
       7   -0.985069E-01     1.50506       -0.443003
       8   -0.582917E-01     1.50450       -0.406892E-01
      10   -0.252911         1.50425       -0.423701E-02
      11   -0.757492         1.49772       -0.457361
      12    0.941771E-01     1.49672       -0.659139
      13    0.465559         1.10072       -0.505712
      14    0.465546        0.784356       -0.330764
      15    0.465513        0.607059E-01    0.556795E-01
      16    0.465379         -1.65382       0.968731
      17    0.392788         -1.98797        1.14305
      18    0.719470E-01     -2.40524        1.46383
      19   -0.375716         -2.92756        1.91138
      20    -1.49774         -3.72172        3.02288
      21    -1.32467         -3.73856        2.85755
      22    0.302124         -3.72995       -2.63912
      23    0.192011E-01     -3.72675        -1.98170
      24   -0.449088         -3.72586       -0.430489
      25    0.956268E-02      3.70182        3.39329
      26    0.245133          3.69897        2.64287
      27    0.328147          3.66046        -1.59711
      28   -0.564053E-03      3.65480        0.177366
      29   -0.484411          3.64551        3.94576
      30    0.125617          3.58556        1.75862
      31    0.151541          3.58495        1.48319
      32    0.227821         -3.27990       0.735823
      35    0.275277         -2.51603       0.423652
      37    0.339204         -0.259877      0.422745
      38    0.129942          -2.87962      0.411283
      39   -0.135766E-02      -4.13305      0.409990
      40   -0.439354          -4.02034      0.400937
      41   -0.294571E-01     -0.557379      0.396856
      43    0.590493E-01      -0.104416     0.303224
      44    0.590490E-01     -0.986800E-01   0.264847
      45    0.590466E-01     -0.891487E-01   0.175995
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
 40416-2          VERSION=SUN4SPARC      15:55:15  OCT 11, 1995 CP=    113.470
 FOR SUPPORT CALL                    PHONE                    FAX

  Modal analysis of coupled system of pressurizer spray line & building

 **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**
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***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION ***** FREQUENCY = 13.438
LOAD STEP= 1 MODE = 16 CUM. ITER.= 16

NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

NODE	UX	UY	UZ	ROTX	ROTY	ROTZ
46	0.589621E-01	-0.209946	-0.260338E-01			
47	0.589561E-01	-0.208489	-0.326578E-01			
48	0.588718E-01	-0.200740	-0.212006E-01			
49	0.587312E-01	-0.170235	-0.193376E-01			
50	0.585849E-01	-0.121472	-0.180374E-01			
51	0.585410E-01	-0.104049	-0.177425E-01			
52	0.583796E-01	-0.322286E-01	-0.169737E-01			
53	0.576537E-01	0.367667	-0.169555E-01			
54	0.565632E-01	1.15295	-0.149823E-01			
55	0.565397E-01	1.17202	-0.148547E-01			
56	0.544388E-01	1.17207	-0.134474E-01			
57	0.533870E-01	1.11118	-0.134778E-01			
58	0.534744E-01	1.05568	-0.135048E-01			
59	0.542933E-01	0.972065	-0.135452E-01			
60	0.554149E-01	0.887677	-0.135849E-01			
61	0.562717E-01	0.803624	-0.136246E-01			
62	0.563130E-01	0.796609	-0.136279E-01			
63	0.549641E-01	0.569647	-0.167441E-01			
64	0.551508E-01	0.193460	-0.354864E-01			
65	0.552350E-01	0.275758E-01	-0.427947E-01			
66	0.551332E-01	-0.128265	-0.464714E-01			
67	0.550465E-01	-0.250933	-0.472447E-01			
68	0.549870E-01	-0.330710	-0.467353E-01			
69	0.549202E-01	-0.403004	-0.455102E-01			
70	0.548736E-01	-0.452135	-0.442098E-01			
71	0.547698E-01	-0.542185	-0.405214E-01			
72	0.546965E-01	-0.601681	-0.363217E-01			
73	0.543659E-01	-0.555822	-0.363082E-01			
74	0.543275E-01	-0.525607	-0.408877E-01			
75	0.542504E-01	-0.454727	-0.515236E-01			
76	0.541683E-01	-0.371471	-0.606249E-01			
77	0.541148E-01	-0.327870	-0.633188E-01			
78	0.541249E-01	-0.249983	-0.659862E-01			
79	0.541214E-01	1.45361	-0.316790E-01			
80	0.541143E-01	1.81093	-0.871337E-01			
81	0.541123E-01	1.88388	-0.854641E-01			
82	0.509985E-01	1.86058	-0.826161E-01			
83	0.752317E-02	0.179917	-0.825497E-01			
84	0.733407E-02	0.126869	-0.825452E-01			
85	0.738651E-02	0.915790E-01	-0.825418E-01			

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***** ANSYS - ENGINEERING ANALYSIS SYSTEM REVISION 5.0 *****
40416-2 VERSION=SUN4SPARC 15:55:15 OCT 11, 1995 CP= 113.520
FOR SUPPORT CALL PHONE FAX

Modal analysis of coupled system of presurizer spray line & building

ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY

***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION ***** FREQUENCY = 13.438
LOAD STEP= 1 MODE = 16 CUM. ITER.= 16

NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

NODE	UX	UY	UZ	ROTX	ROTY	ROTZ
86	0.151399E-02	-0.140713E-02	-0.259943E-01			
87	-0.102811E-04	-0.631687E-04	-0.200720E-03			
91	0.594898E-01	-0.208596	-0.437462E-01			
92	0.103217	-0.208991	-0.642122E-01			
93	0.155212	-0.226493	-0.512441E-01			
94	0.182265	-0.246805	-0.511767E-01			
95	0.225447	-0.279904	-0.510727E-01			
96	0.266943	-0.310541	-0.509641E-01			
97	0.268929	-0.311936	-0.509586E-01			
98	0.254472	-0.327549	-0.622894E-01			
100	0.200006	-0.327674	-0.667862E-01			
101	0.160067	-0.327757	-0.674305E-01			
102	0.104278	-0.327820	-0.659375E-01			
103	0.543036E-01	0.869814	-0.146125E-01			
104	0.543272E-01	0.622945	-0.279069E-01			
105	0.543334E-01	0.524573	-0.328882E-01			
106	0.543345E-01	0.410611	-0.371795E-01			
107	0.543327E-01	-0.8225688E-01	-0.463061E-01			
109	0.539626E-01	-0.173731	-0.467380E-01			
111	0.537798E-01	-0.243073	-0.467366E-01			
112	0.540208E-01	-0.268488	-0.467359E-01			
113	0.174813	-0.338566	-0.674542E-01			
114	0.185618	-0.353104	-0.674696E-01			
115	0.195573	-0.368433	-0.674797E-01			
116	0.208155	-0.386385	-0.674925E-01			
118	0.220948	-0.389322	-0.659709E-01			
120	0.383634E-01	-0.389668	-0.567206			
122	0.175230E-01	-0.350055	-0.605680			
124	0.141281E-02	-0.269383	-0.605661			
125	-0.363170E-01	-0.528982E-01	-0.605531			
127	-0.379556E-01	-0.274489E-03	-0.551985			
129	-0.869666E-03	-0.212521E-03	-0.176116E-01			
130	-0.149332E-04	-0.123127E-03	-0.418130E-05			
131	-0.475681E-01	0.275811E-01	0.222996E-01			
132	-0.151130	0.275457E-01	0.877906E-01			
133	0.573249E-02	-0.543290	0.250892E-02			

134	-0.433494E-01	-0.542381	0.456664E-01
304	-0.291473E-05	-0.112927E-04	-0.299608E-04
306	-0.855755E-05	-0.296604E-04	-0.970868E-04
308	-0.934279E-05	-0.512221E-04	-0.166979E-03

1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM REVISION 5.0 *****
40416-2 VERSION=SUN4SPARC 15:55:15 OCT 11, 1995 CP= 113.560
FOR SUPPORT CALL PHONE FAX

Modal analysis of coupled system of presurizer spray line & building

ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY

***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION ***** FREQUENCY = 13.438
LOAD STEP= 1 MODE = 16 CUM. ITER.= 16

NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

NODE	UX	UY	UZ	ROTX	ROTY	ROTZ
310	-0.132265E-04	-0.965650E-04	-0.311188E-03			
313	-0.167250E-04	-0.124862E-03	-0.507921E-03			
9001	-0.345092E-01	1.47750	-0.422833			
9002	-0.552164E-01	1.49867	-0.431511			
9003	0.140869E-01	1.50547	-0.459747			
9004	0.330446	1.50529	-0.299838			
9005	-1.41108	1.50250	0.698107E-01			
9006	-1.89918	1.50033	-0.680936E-01			
9007	0.271269	1.44816	-0.667653			
9008	0.410922	1.30742	-0.612774			
9009	1.07955	-3.73746	-1.19152			
9010	1.43468	-3.73459	-3.70701			
9011	-0.947923	-3.71906	2.86570			
9012	-0.725523	-3.71105	4.49460			
9013	0.930651	-3.68749	-0.840483			
9014	0.968149	-3.67465	-3.08589			
9015	-1.01945	-3.62700	10.2267			
9016	-0.751865	-3.60701	9.77062			
9017	0.513221	3.64006	0.419053			
9018	0.646177	1.58013	0.415232			
9019	-0.392384	-5.98437	0.405533			
9020	0.590114E-01	-0.138553	-0.901743E-01			
9021	0.541297E-01	0.556752	-0.864337E-01			
9022	0.244753E-01	0.967514	-0.825909E-01			
9023	0.201230	-0.389550	-0.205765			
9024	0.201889E-02	-0.167919E-03	0.443093E-01			

MAXIMUMS						
NODE	9006	9019	9015	0	0	0
VALUE	-1.89918	-5.98437	10.2267	0.	0.	0.

1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM REVISION 5.0 *****
40416-2 VERSION=SUN4SPARC 15:55:15 OCT 11, 1995 CP= 113.590
FOR SUPPORT CALL PHONE FAX

Modal analysis of coupled system of presurizer spray line & building

ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY

***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION ***** FREQUENCY = 14.792
LOAD STEP= 1 MODE = 17 CUM. ITER.= 17

NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

NODE	UX	UY	UZ	ROTX	ROTY	ROTZ
1	0.132487E-05	-0.153019E-05	-0.596716E-05			
2	0.939005E-02	-0.314132E-02	0.951710E-02			
3	0.483206E-01	-0.241237E-01	0.123530			
4	0.481472E-01	-0.424800E-01	0.497566			
5	0.480554E-01	-0.195828E-01	0.685937			
6	0.311844E-01	-0.518449E-02	0.717031			
7	0.186600E-01	-0.519350E-02	0.708000			
9	0.144726E-01	-0.562266E-02	-0.461309E-02			
10	0.118692	-0.564647E-02	0.173362E-01			
11	1.18731	-0.598362E-02	1.55807			
12	1.19126	-0.602110E-02	1.82031			
13	1.19717	-0.146090E-01	1.67065			
14	1.19711	-0.244238E-01	1.48139			
15	1.19695	-0.517062E-01	1.06734			
16	1.19843	-0.118379	0.144791			
17	1.26074	-0.174537	-0.126560E-01			
18	1.52160	-0.606031	-0.274101			
19	1.83804	-0.674351	-0.591402			
20	2.43445	-0.658916	-1.19031			
21	2.11661	-0.507107	-1.13095			
22	-1.42151	-0.510634	-0.464662			
23	0.122902	-0.510784	-0.344479			
24	3.50180	-0.510980	-0.735213E-01			
25	3.40088	-0.511118	0.430130			
26	1.04448	-0.511036	0.290819			
27	-4.76012	-0.509005	-0.264048			
28	-1.56575	-0.508609	0.211470E-01			
29	3.55272	-0.507882	0.568254			
30	-1.50375	-0.502475	-0.193784			
31	-1.78779	-0.502417	-0.233433			
32	-2.63733	-0.457334	-0.342373			
35	-3.17791	-0.348760	-0.387207			
37	-3.88791	-0.241747E-01	-0.387317			

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    38   -0.979507       -0.135046       -0.387449
    39   -0.313194E-01   -0.348696       -0.387386
    40    1.36163        -0.704629       -0.386322
    41    0.141612       -0.247489       -0.385664
    43   -0.183630E-01   -0.620861E-01   -0.229895
    44   -0.184155E-01   -0.221503E-01   -0.173596
    45   -0.185535E-01    0.735579E-01   -0.310365E-01
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0     *****
 40416-2          VERSION=SUN4SPARC     15:55:15  OCT 11, 1995 CP=    113.630
 FOR SUPPORT CALL                    PHONE                    FAX

  Modal analysis of coupled system of presurizer spray line & building

  **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


  ***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION *****   FREQUENCY =   14.792
     LOAD STEP=      1  MODE =  17   CUM. ITER.=    17

  NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

    NODE       UX              UY              UZ              ROTX            ROTY            ROTZ
      46   -0.206053E-01    0.274382        0.957611
      47   -0.207125E-01    0.246675        0.963006
      48   -0.207905E-01    0.217023        0.966371
      49   -0.209202E-01    0.163773        0.964414
      50   -0.210478E-01    0.109062        0.949774
      51   -0.210866E-01    0.931001E-01    0.942842
      52   -0.212259E-01    0.392279E-01    0.907279
      53   -0.218372E-01   -0.722180E-01    0.589637
      54   -0.227287E-01   -0.314918E-01    0.180383E-01
      55   -0.227474E-01   -0.301989E-01    0.104678E-01
      56   -0.848420E-03   -0.137876E-01   -0.176592E-01
      57    0.655522E-02   -0.842562E-02   -0.176616E-01
      58    0.114997E-01   -0.429253E-02   -0.176636E-01
      59    0.162939E-01    0.580063E-03   -0.176664E-01
      60    0.185328E-01    0.367255E-02   -0.176682E-01
      61    0.189110E-01    0.478039E-02   -0.176700E-01
      62    0.188790E-01    0.478765E-02   -0.176701E-01
      63    0.170131E-01    0.602435E-02   -0.200510E-01
      64    0.167962E-01    0.242166E-01   -0.303451E-01
      65    0.166973E-01    0.321135E-01   -0.361099E-01
      66    0.166833E-01    0.392185E-01   -0.424634E-01
      67    0.166714E-01    0.449232E-01   -0.472895E-01
      68    0.166525E-01    0.484767E-01   -0.498977E-01
      69    0.166529E-01    0.519129E-01   -0.515472E-01
      70    0.166483E-01    0.540663E-01   -0.520081E-01
      71    0.166378E-01    0.576780E-01   -0.499831E-01
      72    0.167010E-01    0.600992E-01   -0.426800E-01
      73    0.169401E-01    0.602582E-01    0.979753E-01
      74    0.170109E-01    0.849463E-01    0.129770
      75    0.170726E-01    0.967928E-01    0.198215
      76    0.171324E-01    0.112545        0.262672
      77    0.172911E-01    0.121795        0.289469
      78    0.171734E-01    0.138365        0.323118
      79    0.169114E-01    0.216023        0.116975
      80    0.168596E-01    0.202845        0.287089E-01
      81    0.168466E-01    0.199148        0.996276E-02
      82    0.348048E-01    0.196186       -0.111292E-01
      83    0.105189E-01    0.266709E-01   -0.116948E-01
      84    0.669834E-02    0.192000E-01   -0.117202E-01
      85    0.424084E-02    0.143224E-01   -0.117384E-01
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0     *****
 40416-2          VERSION=SUN4SPARC     15:55:15  OCT 11, 1995 CP=    113.670
 FOR SUPPORT CALL                    PHONE                    FAX

  Modal analysis of coupled system of presurizer spray line & building

  **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


  ***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION *****   FREQUENCY =   14.792
     LOAD STEP=      1  MODE =  17   CUM. ITER.=    17

  NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

    NODE       UX              UY              UZ              ROTX            ROTY            ROTZ
      86   -0.492144E-03    0.573811E-03   -0.245260E-02
      87   -0.649063E-05   -0.644687E-05   -0.481614E-04
      91    0.616378E-02    0.246708        0.918781
      92    0.947187E-01    0.246827        0.771302
      93    0.117817        0.264416        0.743992
      94    0.115284        0.262552        0.743839
      95    0.113685        0.238984        0.743597
      96    0.116316        0.169095        0.743273
      97    0.116597        0.185876        0.743257
      98    0.988082E-01    0.121714        0.667579
     100    0.696110E-01    0.121727        0.554061
     101    0.516175E-01    0.121736        0.473402
     102    0.312693E-01    0.121769        0.370384
     103    0.163221E-01    0.846334E-02   -0.165073E-01
     104    0.163916E-01    0.657077E-01   -0.318264E-01
     105    0.164136E-01    0.872016E-01   -0.381900E-01
     106    0.164337E-01    0.106712       -0.435450E-01
     107    0.165084E-01    0.158590       -0.506923E-01
     109    0.174478E-01    0.146882       -0.498994E-01
     111    0.191455E-01    0.108986       -0.498987E-01
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     112    0.188783E-01    0.924162E-01   -0.493982E-01
     113    0.956829E-01   -0.334425E-01    0.473497
     114    0.128052       -0.132696        0.473554
     115    0.160110       -0.219961        0.473564
     116    0.205695       -0.322070        0.473563
     118    0.221948       -0.347753        0.495596
     12?    0.694470E-02   -0.347931       -0.207789
     122   -0.159894E-02   -0.301271       -0.255174
     124    0.102214E-02   -0.217022       -0.255203
     125    0.562767E-02   -0.348349E-01   -0.255231
     127    0.106681E-01   -0.361594E-03   -0.222346
     129    0.237417E-01   -0.217576E-03   -0.239578E-02
     130   -0.462492E-04   -0.104734E-04   -0.100255E-03
     131    0.207956E-01    0.321210E-01   -0.935431E-02
     132    0.251469E-01    0.321275E-01    0.173655E-01
     133    0.179166E-01    0.576915E-01   -0.133083E-02
     134    0.194072E-01    0.577032E-01    0.474377E-01
     304    0.132997E-05   -0.152639E-05   -0.597872E-05
     306    0.202978E-05   -0.381703E-05   -0.215233E-04
     308    0.225324E-06   -0.569963E-05   -0.396134E-04
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0     *****
 40416-2          VERSION=SUN4SPARC     15:55:15  OCT 11, 1995 CP=    113.710
 FOR SUPPORT CALL                    PHONE                    FAX

  Modal analysis of coupled system of presurizer spray line & building

  **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


  ***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION *****   FREQUENCY =   14.792
     LOAD STEP=      1  MODE =  17   CUM. ITER.=    17

  NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

    NODE       UX              UY              UZ              ROTX            ROTY            ROTZ
      310   -0.278823E-04   -0.873167E-05   -0.787697E-04
      313   -0.552286E-04   -0.106295E-04   -0.124816E-03
     9001    0.462715E-01   -0.132752E-01    0.707550
     9002    0.404925E-01   -0.761255E-02    0.718620
     9003   -0.239341       -0.533915E-02    0.688387
     9004   -0.321750       -0.548222E-02    0.154475
     9005    0.692875       -0.576085E-02    0.372404
     9006    1.08100        -0.587328E-02    0.928764
     9007    1.19336        -0.666199E-02    1.83756
     9008    1.19588        -0.933171E-02    1.78425
     9009   -3.08766        -0.508574       -0.704470
     9010   -5.38215        -0.509749       -0      49
     9011    9.25289        -0.511228        0      .5
     9012    9.40623        -0.511274        0.      59
     9013   -9.17932        -0.510587       -0.293079
     9014   -9.79114        -0.509910       -0.585945
     9015    10.0061        -0.506331        1.35627
     9016    7.84309        -0.504528        1.08767
     9017   -5.37000         0.658111       -0.387506
     9018   -4.08387         0.502803       -0.387550
     9019    1.68956        -0.809580       -0.386934
     9020   -0.195822E-01    0.410508        0.713050
     9021    0.170451E-01    0.214759        0.338072
     9022    0.578942E-01    0.132690       -0.114132E-01
     9023    0.153964       -0.347902        0.364710
     9024    0.993214E-02   -0.113999E-03    0.153523E-01

 MAXIMUMS
 NODE         9015            9019            9007            0               0               0
 VALUE        10.0061        -0.809580        1.83754         0.              0.              0.
3

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0     *****
 40416-2          VERSION=SUN4SPARC     15:55:15  OCT 11, 1995 CP=    113.750
 FOR SUPPORT CALL                    PHONE                    FAX

  Modal analysis of coupled system of presurizer spray line & building

  **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


  ***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION *****   FREQUENCY =   16.065
     LOAD STEP=      1  MODE =  18   CUM. ITER.=    18

  NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

    NODE       UX              UY              UZ              ROTX            ROTY            ROTZ
       1    0.853536E-06    0.121388E-05   -0.538066E-04
       2   -0.252752E-02   -0.171813E-03   -0.261908E-02
       3   -0.135689E-01   -0.101167E-01   -0.355276E-01
       4   -0.134973E-01   -0.653794E-01   -0.159070
       5   -0.134597E-01   -0.104688       -0.235904
       6   -0.194991E-03   -0.117448       -0.241306
       7    0.823335E-02   -0.117446       -0.230588
       9   -0.199882E-02   -0.117041        0.281197E-01
      10   -0.390221E-01   -0.116993       -0.104222E-01
      11   -0.458529       -0.115977       -0.322390
      12   -0.512935       -0.115833       -0.215434
      13   -0.539919       -0.856473E-01   -0.208635
      14   -0.539887       -0.599719E-03   -0.237449
      15   -0.539807        0.413228E-03   -0.301882
      16   -0.539529        0.145002       -0.468758
      17   -0.523686        0.145281       -0.505899
      18   -0.447193        0.747927E-01   -0.582153
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19	-0.328608	-0.648349E-01	-0.700363
20	0.327519E-02	-0.763526	-1.03105
21	0.112688	-0.925222	-0.894715
22	0.303797	-0.919996	0.715823
23	-0.262906E-02	-0.919415	0.249095
24	-0.582363	-0.918099	-0.672539
25	-0.500022E-01	-0.907804	-0.322949
26	0.299088	-0.906628	0.229388
27	0.157843	-0.891148	0.683449
28	-0.304552	-0.888920	0.279282E-01
29	-0.884372	-0.885294	-0.804866
30	1.32331	-0.862247	-1.67292
31	1.36360	-0.862022	-1.71144
32	1.41815	-0.808200	-1.83373
33	1.33602	-0.650817	-1.89588
37	0.935305	-0.849931E-01	-1.89533
38	-0.495132	0.384675	-1.88239
39	0.259494E-01	-0.106750	-1.86057
40	2.45278	-1.57928	-1.86467
41	-0.282670	-0.435146	-1.85696
43	-0.688525	-0.408443E-01	-1.20891
44	-0.888509	0.287985E-01	-0.940986
45	-0.888435	0.214671	-0.216215

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***** ANSYS - ENGINEERING ANALYSIS SYSTEM REVISION 5.0 *****
40416-2 VERSION=SUN4SPARC 15:55:15 OCT 11, 1995 CP= 113.800
FOR SUPPORT CALL PHONE FAX

Modal analysis of coupled system of presurizer spray line & building

ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY

***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION ***** FREQUENCY = 16.065
LOAD STEP= 1 MODE = 18 CUM. ITER.= 18

NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

NODE	UX	UY	UZ	ROTX	ROTY	ROTZ
46	-0.886283	1.40331	8.19443			
47	-0.886136	1.30224	8.34855			
48	-0.885876	1.17524	8.47842			
49	-0.885702	0.919606	8.62764			
50	-0.885312	0.628502	8.75501			
51	-0.885193	0.538559	8.81787			
52	-0.884750	0.215495	8.47034			
53	-0.882494	-0.808965	5.95038			
54	-0.878721	-1.74385	0.178489			
55	-0.878631	-1.76544	0.849068E-01			
56	-0.537067	-1.65982	-0.306196			
57	-0.386836	-1.53557	-0.306208			
58	-0.282572	-1.42910	-0.306213			
59	-0.159002	-1.27948	-0.306220			
60	-0.708324E-01	-1.14379	-0.306208			
61	-0.864596E-02	-1.02450	-0.306196			
62	-0.432810E-02	-1.01531	-0.306195			
63	0.390936E-01	-0.705088	-0.271391			
64	0.362390E-01	-0.799242E-01	-0.237388			
65	0.349402E-01	0.185979	-0.250453			
66	0.343903E-01	0.428763	-0.282848			
67	0.339232E-01	0.614750	-0.314170			
68	0.335188E-01	0.730915	-0.333034			
69	0.333241E-01	0.834441	-0.346793			
70	0.331371E-01	0.900901	-0.352678			
71	0.327219E-01	1.01118	-0.344609			
72	0.326330E-01	1.06674	-0.295219			
73	0.322335E-01	0.968209	0.935350			
74	0.321876E-01	0.950606	1.23237			
75	0.320953E-01	0.929655	1.88163			
76	0.319989E-01	0.939437	2.50792			
77	0.332454E-01	0.958682	2.77620			
78	0.320279E-01	1.02503	3.12166			
79	0.293146E-01	1.21597	3.14082			
80	0.287937E-01	3.57106	0.242620			
81	0.286649E-01	3.64944	0.501917E-01			
82	0.216473	3.63345	-0.168531			
83	0.107860	0.397194	-0.174248			
84	0.750264E-01	0.279015	-0.174504			
85	0.541964E-01	0.201396	-0.174686			

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***** ANSYS - ENGINEERING ANALYSIS SYSTEM REVISION 5.0 *****
40416-2 VERSION=SUN4SPARC 15:55:15 OCT 11, 1995 CP= 113.840
FOR SUPPORT CALL PHONE FAX

Modal analysis of coupled system of presurizer spray line & building

ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY

***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION ***** FREQUENCY = 16.065
LOAD STEP= 1 MODE = 18 CUM. ITER.= 18

NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

NODE	UX	UY	UZ	ROTX	ROTY	ROTZ
86	0.146875E-02	-0.396157E-03	-0.421934E-01			
87	0.161596E-05	0.640278E-05	-0.325181E-03			
91	-0.775673	1.30273	7.94424			
92	-0.394271	1.30453	6.50891			

93	-0.256740	1.56441	6.17866
94	-0.201015	1.65966	6.17738
95	-0.713263E-01	1.63951	6.17537
96	0.111376	1.39667	6.17254
97	0.171969	1.37824	6.17240
98	0.238372	0.956810	5.64486
100	0.166513	0.957264	4.79859
101	0.122906	0.957563	4.15443
102	0.713848E-01	0.958187	3.39497
103	-0.158277	-1.07824	-0.231176
104	-0.156456	-0.342613	-0.360929
105	-0.155862	-0.590443E-01	-0.429133
106	-0.155247	0.233053	-0.480355
107	-0.152886	1.26201	-0.389275
109	-0.923395E-01	1.28847	-0.332992
111	0.261268E-01	1.08642	-0.333018
112	0.422819E-01	0.991098	-0.333029
113	0.645532	-0.258094	4.18588
114	1.03588	-1.06288	4.18651
115	1.42864	-1.78546	4.18606
116	1.99711	-2.64615	4.18671
118	2.16092	-2.86449	4.37390
120	-0.809637E-01	-2.86736	-1.74408
122	-0.106233	-2.47716	-2.14233
124	0.947337E-02	-1.78028	-2.14260
125	0.261548	-0.265452	-2.14283
127	0.345130	-0.215286E-02	-1.87194
129	0.367736	-0.126716E-02	-0.223497E-01
130	-0.140426E-04	0.664443E-05	-0.567288E-03
131	0.194017	0.186030	-0.124763
132	0.355943	0.186074	-0.177640E-03
133	0.836524E-01	1.01146	-0.239917E-01
134	0.135755	1.01170	0.297358
304	0.851400E-06	0.121419E-05	-0.538042E-04
306	0.131259E-05	0.311183E-05	-0.170276E-03
308	0.152015E-05	0.521894E-05	-0.279948E-03

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***** ANSYS - ENGINEERING ANALYSIS SYSTEM REVISION 5.0 *****
40416-2 VERSION=SUN4SPARC 15:55:15 OCT 11, 1995 CP= 113.890
FOR SUPPORT CALL PHONE FAX

Modal analysis of coupled system of presurizer spray line & building

ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY

***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION ***** FREQUENCY = 16.065
LOAD STEP= 1 MODE = 18 CUM. ITER.= 18

NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

NODE	UX	UY	UZ	ROTX	ROTY	ROTZ
310	-0.664373E-05	0.662217E-05	-0.497894E-03			
313	-0.172646E-04	0.677751E-05	-0.718089E-03			
9001	-0.117705E-01	-0.110865	-0.244825			
9002	-0.699714E-02	-0.115632	-0.246905			
9003	0.135665	-0.117378	-0.382450E-01			
9004	0.146476	-0.117243	0.948651E-01			
9005	-0.224857	-0.116702	-0.272486			
9006	-0.358651	-0.116363	-0.436785			
9007	-0.525343	-0.112375	-0.198617			
9008	-0.535693	-0.101860	-0.195673			
9009	1.10375	-0.924102	1.28436			
9010	1.34496	-0.922360	2.10675			
9011	-1.34838	-0.915095	-2.03098			
9012	-1.11512	-0.911662	-1.88288			
9013	1.28306	-0.901942	1.93103			
9014	1.20814	-0.896782	2.09008			
9015	-1.16433	-0.878125	-1.54754			
9016	-0.217021	-0.870439	-1.35834			
9017	-0.514160	1.45952	-1.89185			
9018	-1.18114	1.54945	-1.84753			
9019	2.13254	-1.46278	-1.87317			
9020	-0.887511	1.39257	5.01732			
9021	0.306762E-01	2.03324	3.34795			
9022	0.514675	2.12703	-0.171413			
9023	1.27634	-2.86651	3.20757			
9024	0.143914	-0.630104E-03	0.131135			

MAXIMUMS						
NODE	40	81	50	0	0	0
VALUE	2.45278	3.64944	8.65501	0.	0.	0.

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***** ANSYS - ENGINEERING ANALYSIS SYSTEM REVISION 5.0 *****
40416-2 VERSION=SUN4SPARC 15:55:15 OCT 11, 1995 CP= 113.920
FOR SUPPORT CALL PHONE FAX

Modal analysis of coupled system of presurizer spray line & building

ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY

***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION ***** FREQUENCY = 16.594
LOAD STEP= 1 MODE = 19 CUM. ITER.= 19

NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

NODE	UX	UY	UZ	ROTX	ROTY	ROTZ
1	-0.539790E-06	-0.185785E-04	0.775558E-05			

2	-0.108103E-01	-0.445051E-01	-0.106433E-01
3	-0.494680E-01	-0.501372	-0.118283
4	-0.501507E-01	-1.83078	-0.483086
5	-0.504882E-01	-2.34059	-0.735633
6	0.305047E-01	-2.41826	-0.732769
7	0.626739E-01	-2.43831	-0.679246
9	0.930030E-01	-2.43410	0.155291
10	0.395968	-2.43332	-0.399886E-01
11	0.301959	-2.41481	-0.120043
12	-1.08653	-2.41207	0.798261
13	-1.66766	-1.79982	0.749521
14	-1.66764	-1.32483	0.426961
15	-1.66758	-0.280190	-0.283988
16	-1.66714	1.95904	-1.96299
17	-1.53271	2.14214	-2.28533
18	-0.935588	1.85193	-2.88172
19	-0.100169	1.22111	-3.71692
20	1.99650	-1.62375	-5.81117
21	2.03403	-2.18054	-5.02950
22	-0.671228E-01	-2.17341	1.91454
23	-0.523046E-02	-2.17257	-0.176957
24	0.107569	-2.16988	-4.07418
25	-0.194843E-01	-2.14895	0.513587
26	-0.824597E-01	-2.14646	2.85235
27	0.798176E-02	-2.11275	2.24921
28	0.883454E-01	-2.10780	0.279273
29	0.176808	-2.08965	-1.05519
30	-0.315758	-2.04709	0.870825
31	-0.322957	-2.04657	0.760880
32	-0.320625	-1.90429	0.431256
35	-0.276223	-1.51454	0.274896
37	-0.127023	-0.210192	0.275102
38	0.132566	-0.673235	0.276455
39	-0.186205E-02	-1.51257	0.276530
40	-0.417045	-2.21984	0.276441
41	0.112899	-0.290625	0.276225
43	0.220919	-0.744579E-01	0.161586
44	0.220919	-0.852003E-01	0.114010
45	0.220910	-0.118915	-0.166637E-01

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***** ANSYS - ENGINEERING ANALYSIS SYSTEM REVISION 5.0 *****
40416-2 VERSION=SUN4SPARC 15:55:15 OCT 11, 1995 CP= 113.960
FOR SUPPORT CALL PHONE FAX

Modal analysis of coupled system of presurizer spray line & building

ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY

***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION ***** FREQUENCY = 16.594
LOAD STEP= 1 MODE = 19 CUM. ITER.= 19

NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

NODE	UX	UY	UZ	ROTX	ROTY	ROTZ
46	0.220497	-0.467625	-1.83345			
47	0.220466	-0.438856	-1.87521			
48	0.220414	-0.400246	-1.91167			
49	0.220324	-0.317872	-1.95688			
50	0.220204	-0.219739	-1.97338			
51	0.220167	-0.188763	-1.97230			
52	0.220031	-0.751997E-01	-1.94140			
53	0.219350	0.322968	-1.38581			
54	0.218228	0.778854	-0.474025E-01			
55	0.218201	0.789723	-0.256016E-01			
56	0.138454	0.763492	0.655798E-01			
57	0.103915	0.713362	0.655736E-01			
58	0.794192E-01	0.668958	0.655669E-01			
59	0.511994E-01	0.603930	0.655566E-01			
60	0.312969E-01	0.541570	0.655421E-01			
61	0.173646E-01	0.482984	0.655274E-01			
62	0.163965E-01	0.478283	0.655262E-01			
63	0.629729E-02	0.323000	0.569500E-01			
64	0.701192E-02	0.381123E-01	0.452244E-01			
65	0.733677E-02	-0.825173E-01	0.470658E-01			
66	0.741666E-02	-0.191502	0.545965E-01			
67	0.748442E-02	-0.273373	0.625258E-01			
68	0.755219E-02	-0.323757	0.675877E-01			
69	0.756522E-02	-0.367348	0.715539E-01			
70	0.758670E-02	-0.394776	0.735096E-01			
71	0.763424E-02	-0.437695	0.727726E-01			
72	0.764182E-02	-0.453157	0.618779E-01			
73	0.767429E-02	-0.332077	-0.240548			
74	0.767767E-02	-0.312704	-0.314721			
75	0.768437E-02	-0.278995	-0.476891			
76	0.769000E-02	-0.257459	-0.632697			
77	0.737308E-02	-0.253039	-0.698973			
78	0.767553E-02	-0.258530	-0.783927			
79	0.837119E-02	-0.878731	-0.283419			
80	0.850196E-02	-0.998931	-0.569003E-01			
81	0.853418E-02	-1.02595	-0.822896E-02			
82	-0.393059E-01	-1.02593	0.473055E-01			
83	-0.258397E-01	-0.112293	0.687349E-01			
84	-0.181504E-01	-0.789155E-01	0.487985E-01			
85	-0.133012E-01	-0.569465E-01	0.488440E-01			

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***** ANSYS - ENGINEERING ANALYSIS SYSTEM REVISION 5.0 *****
40416-2 VERSION=SUN4SPARC 15:55:15 OCT 11, 1995 CP= 114.000
FOR SUPPORT CALL PHONE FAX

Modal analysis of coupled system of presurizer spray line & building

ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY

***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION ***** FREQUENCY = 16.594
LOAD STEP= 1 MODE = 19 CUM. ITER.= 19

NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

NODE	UX	UY	UZ	ROTX	ROTY	ROTZ
86	-0.514667E-03	0.134741E-03	0.121436E-01			
87	-0.124163E-04	-0.856951E-04	0.515155E-04			
91	0.188966	-0.435043	-1.82819			
92	0.893513E-01	-0.439731	-1.63527			
93	0.669225E-01	-0.473097	-1.58992			
94	0.630022E-01	-0.477788	-1.58961			
95	0.461238E-01	-0.450341	-1.58913			
96	0.153106E-01	-0.372918	-1.58842			
97	0.133778E-01	-0.367569	-1.58839			
98	-0.114906E-01	-0.252275	-1.44692			
100	-0.152048E-02	-0.252470	-1.22443			
101	0.310791E-02	-0.252600	-1.06399			
102	0.667372E-02	-0.252844	-0.858689			
103	0.510346E-01	0.522206	0.484330E-01			
104	0.506201E-01	0.264427	0.775438E-01			
105	0.504843E-01	0.161992	0.927520E-01			
106	0.503411E-01	0.509585E-01	0.103966			
107	0.497842E-01	-0.373228	0.807745E-01			
109	0.356246E-01	-0.410114	0.675782E-01			
111	0.820633E-02	-0.383340	0.675841E-01			
112	0.468624E-02	-0.368065	0.675864E-01			
113	-0.120071	0.716122E-01	-1.06427			
114	-0.212413	0.292202	-1.06444			
115	-0.305671	0.491539	-1.06447			
116	-0.441216	0.736792	-1.06448			
118	-0.479179	0.799016	-1.11787			
120	0.283865E-01	0.800133	0.573592			
122	0.301622E-01	0.692818	0.683165			
124	-0.220396E-02	0.500878	0.683256			
125	-0.796863E-01	0.823837E-01	0.683280			
127	-0.951112E-01	0.212330E-03	0.603762			
129	-0.937310E-01	0.654053E-04	0.102777E-01			
130	-0.275640E-04	-0.145734E-03	0.145859E-04			
131	-0.653643E-01	-0.825416E-01	0.381453E-01			
132	-0.139115	-0.825626E-01	0.296634E-01			
133	-0.110564E-01	-0.437824	0.626271E-02			
134	-0.299459E-01	-0.437935	-0.603954E-01			
304	-0.517954E-06	-0.185294E-04	0.775773E-05			
306	-0.138231E-06	-0.461476E-04	0.237875E-04			
308	-0.870154E-05	-0.730369E-04	0.433327E-04			

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***** ANSYS - ENGINEERING ANALYSIS SYSTEM REVISION 5.0 *****
40416-2 VERSION=SUN4SPARC 15:55:15 OCT 11, 1995 CP= 114.050
FOR SUPPORT CALL PHONE FAX

Modal analysis of coupled system of presurizer spray line & building

ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY

***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION ***** FREQUENCY = 16.594
LOAD STEP= 1 MODE = 19 CUM. ITER.= 19

NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

NODE	UX	UY	UZ	ROTX	ROTY	ROTZ
310	-0.214799E-04	-0.120133E-03	0.764408E-04			
313	-0.327781E-04	-0.148522E-03	0.106127E-04			
9001	-0.362494E-01	-2.39543	-0.764460			
9002	-0.197465E-02	-2.42845	-0.764308			
9003	-0.124735	-2.43839	0.233831			
9004	-0.578382	-2.43698	0.685482			
9005	2.07535	-2.42821	-1.15305			
9006	2.47203	-2.42204	-1.48469			
9007	-1.36625	-2.33534	0.926665			
9008	-1.58379	-2.11618	0.913007			
9009	0.345086	-2.17973	5.84935			
9010	-0.197106	-2.17736	8.89008			
9011	0.243861	-2.16398	-8.96165			
9012	0.185030	-2.15700	-6.92793			
9013	-0.245589	-2.13643	9.10739			
9014	-0.198754	-2.12519	8.26102			
9015	0.176656	-2.08343	0.176179			
9016	-0.327169E-01	-2.06590	2.24844			
9017	0.313337	2.60877	0.275682			
9018	0.403690	1.94591	0.276133			
9019	-0.416195	-3.06566	0.276558			
9020	0.220744	-0.427131	-1.08498			
9021	0.802491E-02	-0.509428	-0.836401			
9022	-0.120842	-0.598242	0.480271E-01			
9023	-0.271941	0.799748	-0.796862			
9024	-0.363676E-01	-0.402022E-04	-0.443151E-01			

MAXIMUMS						
NODE	9006	9019	9013	0	0	0
VALUE	2.47203	-3.06566	9.10739	0.	0.	0.

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***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC     15:55:15  OCT 11, 1995 CP=    114.090
FOR SUPPORT CALL                      PHONE                    FAX

 Modal analysis of coupled system of pressurizer spray line & building

 **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


 ***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION *****   FREQUENCY =   17.750
    LOAD STEP=     1  MODE =  20   CUM. ITER.=    20

 NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

  NODE       UX              UY              UZ              ROTX            ROTY            ROTZ
    1   -0.807354E-05   -0.406943E-06   -0.358375E-04
    2    0.266229E-02    0.180306E-01    0.251758E-02
    3    0.949097E-02    0.189556        0.185296E-01
    4    0.992811E-02    0.630851        0.428473E-01
    5    0.101467E-01    0.778320        0.572616E-01
    6    0.176263E-02    0.794571        0.514198E-01
    7    0.440208E-02    0.794594        0.442542E-01
    9   -0.386720E-01    0.793192       -0.221856E-01
   10   -0.219402        0.792911        0.355036E-02
   11   -0.575921        0.786155       -0.164941
   12   -0.852609E-01    0.785153       -0.329135
   13    0.107468        0.586616       -0.341386
   14    0.107515        0.438891       -0.299575
   15    0.107615        0.127017       -0.208318
   16    0.107826       -0.467787       -0.634718E-02
   17    0.939653E-01   -0.523921        0.276910E-01
   18    0.380250E-01   -0.503417        0.817962E-01
   19   -0.305184E-01   -0.430503        0.152568
   20   -0.175365       -0.182373        0.297991
   21   -0.111349       -0.167813        0.223386
   22    0.179204       -0.163900        0.327978
   23    0.209064E-01   -0.163577        0.358166
   24   -0.201046       -0.162912        0.343310
   25    0.300433       -0.158363       -0.408321
   26    0.363955       -0.157886       -0.384992
   27   -0.284232       -0.152091        0.147545
   28   -0.332058       -0.151306       -0.270206E-01
   29   -0.286749       -0.150067       -0.440270
   30    0.640643       -0.142559       -0.698741
   31    0.643326       -0.142488       -0.697291
   32    0.607759       -0.139517       -0.701235
   35    0.507010       -0.120868       -0.707741
   37    0.179103       -0.260804E-01   -0.707423
   38   -0.356897        0.151610       -0.700761
   39    0.407555E-02    0.409899E-01    0.699848
   40    1.23555        -0.335454       -0.692163
   41    0.147286       -0.299480E-01   -0.688333
   43   -0.668478E-01    0.865608E-03    0.464149
   44   -0.668656E-01   -0.107309E-01   -0.374951
   45   -0.669098E-01   -0.419276E-01   -0.140277
1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC     15:55:15  OCT 11, 1995 CP=    114.130
FOR SUPPORT CALL                      PHONE                    FAX

 Modal analysis of coupled system of pressurizer spray line & building

 **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


 ***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION *****   FREQUENCY =   17.750
    LOAD STEP=     1  MODE =  20   CUM. ITER.=    20

 NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

  NODE       UX              UY              UZ              ROTX            ROTY            ROTZ
   46   -0.674758E-01   -0.313250        1.78098
   47   -0.675025E-01   -0.307473        1.78639
   48   -0.675979E-01   -0.295002        1.78952
   49   -0.677560E-01   -0.235397        1.79105
   50   -0.679038E-01   -0.112262        1.77671
   51   -0.679479E-01   -0.606265E-01    1.76867
   52   -0.681089E-01    0.196282        1.72219
   53   -0.687906E-01    2.56617         1.18768
   54   -0.697530E-01    7.85846        -0.118945
   55   -0.697723E-01    7.97786        -0.144356
   56    0.262563E-01    7.45633        -0.254388
   57    0.688461E-01    6.76228        -0.254694
   58    0.102287        6.13292        -0.254962
   59    0.142473        5.17980        -0.255361
   60    0.169990        4.21993        -0.255745
   61    0.184003        3.26221        -0.256126
   62    0.184528        3.18214        -0.256177
   63    0.166662        2.34869        -0.252684
   64    0.167023       -0.524627       -7.500284
   65    0.167184       -1.24041        -0.586645
   66    0.166483       -1.81636        -0.640918
   67    0.165885       -2.18918        -0.661836
   68    0.165458       -2.38594        -0.662795
   69    0.164993       -2.51692        -0.652395
   70    0.164674       -2.57455        -0.637307
   71    0.163966       -2.56479        -0.582253
   72    0.164136       -2.34668        -0.498730
   73    0.164864        0.830443E-02    0.392612
   74    0.164940        0.294743        0.564904
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   75    0.165089        0.810283        0.933848
   76    0.165212        1.20707         1.29317
   77    0.166046        1.34569         1.45341
   78    0.165333        1.47456         1.67195
   79    0.164257       -4.03860         0.974410
   80    0.164019       -5.57932         0.510448
   81    0.163958       -5.94046         0.410270
   82    0.260621       -6.07042         0.296879
   83    0.637588E-01   -0.657806        0.293080
   84    0.353967E-01   -0.467261        0.292898
   85    0.162957E-01   -0.339170        0.292768
1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC     15:55:15  OCT 11, 1995 CP=    114.160
FOR SUPPORT CALL                      PHONE                    FAX

 Modal analysis of coupled system of pressurizer spray line & building

 **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


 ***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION *****   FREQUENCY =   17.750
    LOAD STEP=     1  MODE =  20   CUM. ITER.=    20

 NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

  NODE       UX              UY              UZ              ROTX            ROTY            ROTZ
   86   -0.419094E-02    0.372759E-02    0.997116E-01
   87   -0.377734E-04   -0.682517E-05   -0.200962E-03
   91   -0.690617E-01   -0.307143        1.84533
   92    0.529824E-02   -0.305893        0.912232
   93    0.165381        0.206411E-02    0.613499
   94    0.276715        0.274548        0.613105
   95    0.467748        0.687175        0.612493
   96    0.679604        1.07626         0.611783
   97    0.690801        1.09497         0.611747
   98    0.743424        1.34752         0.844574
  100    0.577893        1.34790         1.08740
  101    0.459826        1.34814         1.24325
  102    0.300954        1.34678         1.39104
  103    0.142540        4.70077        -0.260165
  104    0.142698        3.92077        -0.493215
  105    0.142742        3.52233        -0.572016
  106    0.142763        2.96265        -0.627831
  107    0.142816        0.213113       -0.667745
  109    0.147628       -0.479096       -0.662911
  111    0.156744       -1.31218        -0.662848
  112    0.159488       -1.62191        -0.662819
  113    0.853220        2.19597         1.24487
  114    1.16334         3.20696         1.24596
  115    1.48045         4.33055         1.24689
  116    1.94189         5.81578         1.24819
  118    2.10342         6.16244         0.982383
  120    0.427613E-01    6.19752         14.2971
  122   -0.323863E-01    5.56446         14.9437
  124    0.126726E-01    4.37395         14.9434
  125    0.105947        0.968842        14.9390
  127    0.167272       -0.236830E-01    13.8762
  129    0.295735       -0.139761E-01    0.550625
  130   -0.650478E-04   -0.122940E-04   -0.302982E-03
  131   -0.246952       -1.24083         0.205422
  132   -0.665844       -1.24179         1.00318
  133    0.230304       -2.56565        -0.387819E-01
  134    0.299839       -2.56640         0.506299
  304   -0.808734E-05   -0.427218E-06   -0.358368E-04
  306   -0.223765E-04   -0.158146E-05   -0.110801E-03
  308   -0.331948E-04   -0.254844E-05   -0.177253E-03
1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC     15:55:15  OCT 11, 1995 CP=    114.200
FOR SUPPORT CALL                      PHONE                    FAX

 Modal analysis of coupled system of pressurizer spray line & building

 **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


 ***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION *****   FREQUENCY =   17.750
    LOAD STEP=     1  MODE =  20   CUM. ITER.=    20

 NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

  NODE       UX              UY              UZ              ROTX            ROTY            ROTZ
  310   -0.558581E-04   -0.984666E-05   -0.295836E-03
  313   -0.771085E-04   -0.124076E-04   -0.395435E-03
 9001    0.745350E-02    0.789286        0.883575E-01
 9002    0.314421E-02    0.793953        0.563568E-01
 9003    0.317342        0.794678       -0.752601E-01
 9004    0.504194        0.794210       -0.114006
 9005   -1.14281         0.751055        0.123848
 9006   -1.40111         0.788802        0.106721
 9007    0.804745E-02    0.759390       -0.354753
 9008    0.405464E-01    0.687546       -0.359817
 9009    0.792151       -0.166645        0.245694
 9010    0.904612       -0.165340       -0.242867E-01
 9011   -0.304993       -0.161488        0.776106E-01
 9012   -0.414616E-01   -0.159971       -0.271765
 9013    0.365706       -0.156056       -0.104262
 9014    0.472217E-01   -0.154124        0.206612
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   9015    0.726463E-01   -0.147669        -1.12946
   9016    0.465270       -0.145166        -1.07991
   9017   -0.862637        0.303369        -0.705580
   9018   -1.08523         0.378079        -0.703359
   9019    1.12689        -0.294254        -0.696213
   9020   -0.672068E-01    -0.251540        1.24882
   9021    0.164829       -0.105054        2.02745
   9022    0.374500       -3.92378         0.295030
   9023    1.47728         6.18151         5.27201
   9024    0.124046       -0.699267E-02    -1.19601

MAXIMUMS
NODE        118              55              122              0               0               0
VALUE      2.10342          7.97786         14.9437           0.              0.              0.
1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC     15:55:15  OCT 11, 1995 CP=     114.240
FOR SUPPORT CALL                  PHONE                    FAX

 Modal analysis of coupled system of presurizer spray line & building

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


 ***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION *****   FREQUENCY =   18.244
    LOAD STEP=      1  MODE =  21   CUM. ITER.=     21

 NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

   NODE       UX              UY              UZ              ROTX            ROTY            ROTZ
      1    0.347627E-05   -0.794106E-05   -0.375847E-04
      2   -0.226206E-01   -0.130801        -0.217721E-01
      3   -0.822444E-01    -1.36461        -0.164188
      4   -0.856695E-01    -4.48532        -0.383188
      5   -0.673805E-01    -5.47706        -0.485611
      6   -0.561360E-01    -5.56699        -0.440146
      7   -0.944738E-01    -5.56716        -0.389770
      9    0.272379        -5.55652         0.153488
     10     1.62280        -5.55443        -0.251833E-01
     11     3.88934        -5.50421         0.855245
     12    0.377655        -5.49678         1.87331
     13   -0.978329        -4.10790         2.06568
     14   -0.978703        -3.08663         1.89392
     15   -0.979497       -0.959764         1.52074
     16   -0.981129         2.89860         0.722561
     17   -0.931802         3.24073         0.599124
     18   -0.747770         3.07418         0.413882
     19   -0.550033         2.52018         0.214446
     20   -0.229598        0.748277        -0.110396
     21   -0.526277        0.669787         0.217821
     22   -0.798846        0.642842        -2.89862
     23   -0.151446        0.640746        -2.42649
     24    0.528026        0.636530        -1.04331
     25    -1.82438        0.608750         2.20509
     26    -1.74046        0.605939         1.26503
     27     1.61321        0.572531        -1.49273
     28     1.29997        0.568116        0.178195E-01
     29    0.389433        0.561236         2.36266
     30   -0.735180        0.520483        0.636436
     31   -0.686712        0.520104        0.615950
     32   -0.475672        0.520372        0.589411
     35   -0.224601        0.467838        0.615738
     37    0.394976        0.150925        0.614660
     38    0.604542       0.978876E-01     0.599507
     39   0.128806E-01     0.319050        0.597705
     40    -1.30572        0.547724        0.584355
     41   -0.390957       0.672572E-01     0.578130
     43   -0.258364       0.266318E-01     0.448654
     44   -0.258335       0.342676E-01     0.405028
     45   -0.258194       0.577508E-01     0.307974
1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC     15:55:16  OCT 11, 1995 CP=     114.270
FOR SUPPORT CALL                  PHONE                    FAX

 Modal analysis of coupled system of presurizer spray line & building

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


 ***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION *****   FREQUENCY =   18.244
    LOAD STEP=      1  MODE =  21   CUM. ITER.=     21

 NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

   NODE       UX              UY              UZ              ROTX            ROTY            ROTZ
     46   -0.255687        0.284871         1.39542
     47   -0.255543        0.262526         1.45766
     48   -0.255433        0.234601         1.51371
     49   -0.255247        0.183963         1.59386
     50   -0.255018        0.135709         1.64754
     51   -0.254949        0.123208         1.65788
     52   -0.254692       0.912453E-01      1.67127
     53   -0.253447        0.273736         1.28233
     54   -0.251445        0.997015        0.987012E-02
     55   -0.251399         1.01279        -0.140994E-01
     56   -0.156261        0.923281        -0.119340
     57   -0.112257        0.819656        -0.119403
     58   -0.797165E-01    0.725161        -0.119457
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     59   -0.404930E-01    0.580813        -0.119537
     60   -0.113352E-01    0.433558        -0.119609
     61    0.956858E-02    0.284317        -0.119680
     62    0.109988E-01    0.271719        -0.119686
     63    0.325347E-01    0.213783E-01    -0.113883
     64    0.220170E-01   -0.135966        -0.133657
     65    0.217610E-01   -0.187117        -0.148346
     66    0.215308E-01   -0.219629        -0.161717
     67    0.213181E-01   -0.232876        -0.169830
     68    0.211563E-01   -0.235058        -0.172742
     69    0.210276E-01   -0.229742        -0.172853
     70    0.209302E-01   -0.221941        -0.171218
     71    0.207141E-01   -0.191792        -0.160250
     72    0.205648E-01   -0.142796        -0.137350
     73    0.204422E-01    0.187736         0.228847
     74    0.204164E-01    0.223620         0.309968
     75    0.203644E-01    0.287413         0.486174
     76    0.203089E-01    0.336515         0.657225
     77    0.206426E-01    0.354010         0.732016
     78    0.203007E-01    0.374167         0.831426
     79    0.196234E-01   -0.160478         0.376962
     80    0.194904E-01   -0.336875         0.133946
     81    0.194573E-01   -0.378902        0.814566E-01
     82    0.709400E-01   -0.395992        0.215799E-01
     83    0.305847E-01   -0.432734E-01    0.198571E-01
     84    0.201510E-01   -0.317615E-01    0.197781E-01
     85    0.133571E-01   -0.236944E-01    0.197216E-01
1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC     15:55:16  OCT 11, 1995 CP=     114.320
FOR SUPPORT CALL                  PHONE                    FAX

 Modal analysis of coupled system of presurizer spray line & building

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


 ***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION *****   FREQUENCY =   18.244
    LOAD STEP=      1  MODE =  21   CUM. ITER.=     21

 NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

   NODE       UX              UY              UZ              ROTX            ROTY            ROTZ
     86    0.202062E-04    0.108703E-03    0.981360E-02
     87    0.113878E-04   -0.580707E-05   -0.198380E-03
     91   -0.229429        0.262714         1.41912
     92   -0.125538        0.263410         1.23948
     93   -0.827621E-01    0.318122         1.18053
     94   -0.611966E-01    0.354172         1.18033
     95   -0.124879E-01    0.389585         1.18001
     96    0.531098E-01    0.392530         1.17949
     97    0.568193E-01    0.391689         1.17946
     98    0.984379E-01    0.353829         1.12277
    100    0.752134E-01    0.354025         1.01697
    101    0.596461E-01    0.354154        0.937951
    102    0.386883E-01    0.354075        0.827553
    103   -0.403083E-01    0.547184        -0.100623
    104   -0.398442E-01    0.587600        -0.174342
    105   -0.396924E-01    0.584570        -0.203984
    106   -0.395336E-01    0.554632        -0.223895
    107   -0.389175E-01    0.312018        -0.190038
    109   -0.206612E-01    0.200986        -0.172757
    111    0.145709E-01    0.174843E-01    -0.172749
    112    0.201637E-01   -0.541537E-01    -0.172745
    113    0.224594        0.288481        0.938502
    114    0.353545        0.320320        0.938858
    115    0.485877        0.384255        0.939077
    116    0.680017        0.481069        0.939348
    118    0.739027        0.497838        0.931649
    120   -0.290723E-01    0.503653         2.21238
    122   -0.386696E-01    0.470920         2.24647
    124    0.440099E-02    0.404147         2.24636
    125    0.100444        0.112810         3.24551
    127    0.133061       -0.499742E-02     2.11214
    129    0.149166       -0.293666E-02    0.951566E-01
    130    0.136098E-04    0.260201E-04    -0.265049E-03
    131   -0.543558E-02    -0.187184        0.141688E-01
    132   -0.328343E-01    -0.187241        0.175536
    133    0.450450E-01    -0.191861       -0.808427E-02
    134    0.700601E-01    -0.191920        0.144602
    304    0.358453E-05    -0.779172E-05    -0.375868E-04
    306    0.192455E-04    -0.162377E-04    -0.115068E-03
    308    0.985421E-05    -0.126834E-04    -0.177976E-03
1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC     15:55:16  OCT 11, 1995 CP=     114.360
FOR SUPPORT CALL                  PHONE                    FAX

 Modal analysis of coupled system of presurizer spray line & building

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


 ***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION *****   FREQUENCY =   18.244
    LOAD STEP=      1  MODE =  21   CUM. ITER.=     21

 NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

   NODE       UX              UY              UZ              ROTX            ROTY            ROTZ
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310	0.136250E-04	0.125696E-04	-0.269679E-03
313	0.157032E-04	0.287033E-04	-0.3[illegible]E-03
9001	-0.715122E-01	-5.54324	-0.491549
9002	-0.508289E-01	-5.56659	-0.475681
9003	-2.64906	-5.56769	0.463368
9004	-3.96642	-5.56414	0.770648
9005	8.35696	-5.54062	-0.880776
9006	10.0302	-5.52387	-0.836299
9007	-0.288664	-5.31490	2.04730
9008	-0.790546	-4.81086	2.12145
9009	-4.37029	0.661376	0.116120
9010	-4.40233	0.652393	-2.61926
9011	0.151621	0.627647	2.35572
9012	-1.17910	0.618183	3.90519
9013	-0.483508	0.555206	-2.49469
9014	1.16452	0.584069	-3.87327
9015	-1.61161	0.548063	4.81689
9016	-2.12831	0.534472	3.20989
9017	2.16759	-0.645832	0.609854
9018	2.17095	-0.556029	0.604902
9019	-1.34121	0.749155	0.591217
9020	-0.256997	0.270303	0.562318
9021	0.199664E-01	0.255091	0.946948
9022	0.151848	-0.191502	0.207224E-01
9023	0.459535	0.500677	1.55035
9024	0.596805E-01	-0.145400E-02	-0.188909

MAXIMUMS

NODE	9006	9003	9015	0	0	0
VALUE	10.0302	-5.56769	4.81689	0.	0.	0.

1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 5.0 *****
40416-2 VERSION=SUN4SPARC 15:55:16 OCT 11, 1995 CP= 114.390
FOR SUPPORT CALL PHONE FAX

Modal analysis of coupled system of presurizer spray line & building

ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY

***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION ***** FREQUENCY = 19.637
LOAD STEP= 1 MODE = 22 CUM. ITER.= 22

NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

NODE	UX	UY	UZ	ROTX	ROTY	ROTZ
1	0.285346E-06	-0.110809E-04	0.259227E-04			
2	-0.331282E-01	-0.530435E-01	-0.330368E-01			
3	-0.153701	-0.597871	-0.370216			
4	-0.154843	-2.11639	-1.32880			
5	-0.155392	-2.68421	-1.78363			
6	-0.869758E-01	-2.77406	-1.74514			
7	-0.667921E-01	-2.77410	-1.65098			
9	0.101252	-2.76537	0.265694			
10	0.488322	-2.76401	-0.593648E-01			
11	-0.522355	-2.73284	-2.59571			
12	-2.16818	-2.72830	-2.22358			
13	-2.82898	-2.04100	-1.59836			
14	-2.82896	-1.52482	-1.22614			
15	-2.82883	-0.441990	-0.420902			
16	-2.82782	1.44782	1.28370			
17	-2.81535	1.67583	1.55052			
18	-3.33835	1.93755	1.95482			
19	-3.74875	2.01077	2.35712			
20	-4.18396	0.391232	2.80777			
21	-3.27603	-0.944625E-01	2.64613			
22	2.21129	-0.941801E-01	-0.977457			
23	0.288409	-0.941278E-01	-0.682518			
24	-2.34352	-0.939968E-01	0.361037E-01			
25	3.95154	-0.928527E-01	0.328204			
26	4.49182	-0.927137E-01	-0.150630			
27	-4.01467	-0.908036E-01	-0.434024			
28	-3.94736	-0.905201E-01	-0.750225E-01			
29	-2.35615	-0.800520E-01	0.579079E-01			
30	3.61259	-0.870154E-01	-1.19090			
31	3.52430	-0.869853E-01	-1.19344			
32	2.97563	-0.827642E-01	-1.20253			
35	2.11850	-0.685287E-01	-1.20789			
37	-0.272180	-0.112025E-01	-1.20757			
38	-2.18545	0.193095E-01	-1.19762			
39	-0.576926E-01	-0.356716E-01	-1.19613			
40	4.06527	-0.140384	-1.18285			
41	0.900159	-0.146783E-01	-1.17605			
43	0.502600	-0.144539E-01	-0.798297			
44	0.502408	-0.232174E-01	-0.670948			
45	0.501874	-0.500736E-01	-0.370999			

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***** ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 5.0 *****
40416-2 VERSION=SUN4SPARC 15:55:16 OCT 11, 1995 CP= 114.440
FOR SUPPORT CALL PHONE FAX

Modal analysis of coupled system of presurizer spray line & building

ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY

***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION ***** FREQUENCY = 19.637
LOAD STEP= 1 MODE = 22 CUM. ITER.= 22

NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

NODE	UX	UY	UZ	ROTX	ROTY	ROTZ
46	0.492984	-0.316732	-0.879232			
47	0.492488	-0.291031	-0.969971			
48	0.492076	-0.259403	-1.05372			
49	0.491383	-0.201207	-1.18245			
50	0.490593	-0.141800	-1.28795			
51	0.490355	-0.124980	-1.31428			
52	0.489476	-0.722116E-01	-1.38713			
53	0.485346	-0.639123E-01	-1.23751			
54	0.478891	-0.346408	-0.519161E-02			
55	0.476746	-0.351863	0.243700E-01			
56	0.341402	-0.291884	0.166308			
57	0.270857	-0.239812	0.166366			
58	0.217586	-0.192465	0.166414			
59	0.150169	-0.120058	0.166480			
60	0.956328E-01	-0.458668E-01	0.166542			
61	0.520470E-01	0.299291E-01	0.166600			
62	0.487805E-01	0.363649E-01	0.166604			
63	0.122985E-01	0.134316	0.137162			
64	0.130024E-01	0.113610	0.101815			
65	0.133219E-01	0.941134E-01	0.989178E-01			
66	0.136402E-01	0.674129E-01	0.100507			
67	0.139101E-01	0.419123E-01	0.102635			
68	0.141030E-01	0.228169E-01	0.103282			
69	0.142515E-01	0.256562E-02	0.103029			
70	0.143521E-01	-0.124447E-01	0.102259			
71	0.146073E-01	-0.445265E-01	0.970306E-01			
72	0.148380E-01	-0.746360E-01	0.841155E-01			
73	0.158606E-01	-0.155495	-0.165093			
74	0.159746E-01	-0.157824	-0.223189			
75	0.162029E-01	-0.157743	-0.350945			
76	0.164280E-01	-0.151274	-0.477435			
77	0.162655E-01	-0.145648	-0.534077			
78	0.165361E-01	-0.138798	-0.610786			
79	0.171146E-01	-0.260376	-0.258825			
80	0.172202E-01	-0.286594	-0.784053E-01			
81	0.172461E-01	-0.292316	-0.369779E-01			
82	-0.240443E-01	-0.296571	0.106947E-01			
83	-0.229509E-01	-0.291795E-01	0.120123E-01			
84	-0.163505E-01	-0.191608E-01	0.120737E-01			
85	-0.121388E-01	-0.127552E-01	0.121143E-01			

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***** ANSYS - ENGINEERING ANALYSIS SYSTEM RELEASE 5.0 *****
40416-2 VERSION=SUN4SPARC 15:55:16 OCT 11, 1995 CP= 114.480
FOR SUPPORT CALL PHONE FAX

Modal analysis of coupled system of presurizer spray line & building

ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY

***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION ***** FREQUENCY = 19.637
LOAD STEP= 1 MODE = 22 CUM. ITER.= 22

NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

NODE	UX	UY	UZ	ROTX	ROTY	ROTZ
86	-0.107176E-02	0.828851E-03	0.100607E-02			
87	-0.326676E-04	-0.406588E-04	0.155441E-03			
91	0.461989	-0.291180	-0.975879			
92	0.344382	-0.291725	-0.987810			
93	0.307223	-0.286880	-0.991160			
94	0.284739	-0.277718	-0.991291			
95	0.231426	-0.252485	-0.991172			
96	0.160212	-0.207497	-0.990861			
97	0.156297	-0.204608	-0.990845			
98	0.798929E-01	-0.145300	-0.919200			
100	0.574249E-01	-0.145454	-0.807886			
101	0.422486E-01	-0.145555	-0.727682			
102	0.258705E-01	-0.145608	-0.621217			
103	0.149829	-0.132013	0.126052			
104	0.148969	-0.256633	0.197403			
105	0.148683	-0.291836	0.229544			
106	0.148367	-0.311955	0.247851			
107	0.147120	-0.303089	0.140391			
109	0.108081	-0.250199	0.103280			
111	0.325183E-01	-0.136565	0.103282			
112	0.196977E-01	-0.915469E-01	0.103282			
113	-0.962760E-01	-0.213872E-01	-0.728103			
114	-0.205764	0.323692E-01	-0.728370			
115	-0.319540	0.681837E-01	-0.728514			
116	-0.489026	0.108041	-0.728681			
118	-0.533682	0.124711	-0.747383			
120	0.741465E-01	0.122129	-0.843567			
122	0.615989E-01	0.916316E-01	-0.813639			
124	-0.383076E-02	0.374092E-01	-0.813559			
125	-0.154467	-0.164884E-01	-0.813121			
127	-0.193701	0.304222E-02	-0.784292			
129	-0.176654	0.177244E-02	-0.438963E-01			
130	-0.129748E-03	-0.546596E-04	0.222285E-03			
131	-0.165144E-02	0.941522E-01	0.168684E-02			
132	-0.167172E-01	0.941858E-01	-0.959847E-01			
133	-0.560935E-02	-0.449470E-01	-0.414097E-02			
134	-0.259972E-01	-0.449631E-01	-0.105851			
304	0.323039E-05	-0.110168E-04	0.259523E-04			
306	-0.368505E-06	-0.264574E-04	0.836720E-04			
308	-0.133703E-04	-0.373136E-04	0.134078E-03			

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***** ANSYS - ENGINEERING ANALYSIS SYSTEM REVISION 5.0 *****
40416-2 VERSION=SUN4SPARC 15:55:16 OCT 11, 1995 CP= 114.520
FOR SUPPORT CALL PHONE FAX

Modal analysis of coupled system of presurizer spray line & building

ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY

***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION ***** FREQUENCY = 19.637
LOAD STEP= 1 MODE = 22 CUM. ITER.= 22

NOTE - ALL VECTOR DOFS ARE IN MODAL COORDINATE SYSTEMS.

NODE	UX	UY	UZ	ROTX	ROTY	ROTZ
310	-0.896426E-04	-0.494211E-04	0.217242E-03			
313	-0.182630E-03	-0.561546E-04	0.306337E-03			
9001	-0.141901	-2.73691	-1.82118			
9002	-0.113506	-2.76626	-1.80708			
9003	-0.545248	-2.77356	0.255589E-01			
9004	-1.00276	-2.77063	1.02896			
9005	2.38198	-2.75531	-2.02968			
9006	2.41875	-2.74491	-3.12260			
9007	-2.48944	-2.64017	-2.C.422			
9008	-2.73558	-2.39228	-1.86769			
9009	8.27113	-0.944635E-01	0.443483			
9010	10.8146	-0.943693E-01	-1.22005			
9011	-3.28735	-0.936808E-01	1.41970			
9012	0.146980	-0.932993E-01	1.58338			
9013	3.42950	-0.921494E-01	-1.61481			
9014	-0.925933	-0.915126E-01	-1.61216			
9015	2.87665	-0.891175E-01	-0.501503			
9016	5.65169	-0.881048E-01	-1.07541			
9017	-7.37277	0.156192	-1.20504			
9018	-7.81523	0.160187	-1.20173			
9019	4.55322	-0.165523	-1.18993			
9020	0.497556	-0.297788	0.988736E-01			
9021	0.168297E-01	-0.175318	-0.707682			
9022	-0.100375	-0.143254	0.113557E-01			
9023	-0.272737	0.123458	-1.01640			
9024	-0.691430E-01	0.858702E-03	0.751396E-01			

MAXIMUMS

NODE	9010	7	9006	0	0	0
VALUE	10.8146	-2.77410	-3.12260	0.	0.	0.

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***** ANSYS - ENGINEERING ANALYSIS SYSTEM REVISION 5.0 *****
40416-2 VERSION=SUN4SPARC 15:55:16 OCT 11, 1995 CP= 114.550
FOR SUPPORT CALL PHONE FAX

Modal analysis of coupled system of presurizer spray line & building

ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY

***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION ***** FREQUENCY = 20.883
LOAD STEP= 1 MODE = 23 CUM. ITER.= 23

NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

NODE	UX	UY	UZ	ROTX	ROTY	ROTZ
1	0.375578E-04	0.200924E-04	-0.894611E-04			
2	-0.184214E-01	0.237076E-01	-0.192514E-01			
3	-0.107039	0.157586	-0.290156			
4	-0.105294	0.157710	-1.27052			
5	-0.104395	-0.100537	-1.78234			
6	0.472816E-01	-0.233641	-1.75519			
7	0.155911	-0.233574	-1.65705			
9	-0.221062E-02	-0.229263	0.262526			
10	-0.476773	-0.228533	-0.488003E-01			
11	-1.55143	-0.223045	-2.41293			
12	-1.35363	-0.222280	-2.19921			
13	-1.36008	-0.186140	-1.72508			
14	-1.35980	-0.122976	-1.40771			
15	-1.35914	0.699058E-01	-0.726348			
16	-1.35722	0.681837	0.646238			
17	-1.43193	0.846488	0.836485			
18	-1.67455	1.28019	1.08095			
19	-1.83293	1.80264	1.24198			
20	-1.48030	1.73467	0.896550			
21	-0.786012	1.41350	0.747613			
22	1.46291	1.41546	0.883789E-01			
23	0.389049	1.41505	-0.417073			
24	-0.374232	1.41375	-1.23894			
25	3.01006	1.39993	1.21440			
26	2.23657	1.39810	1.56605			
27	-1.86066	1.37157	-0.292101			
28	-0.459917	1.36749	0.192640			
29	1.73230	1.36064	1.88749			
30	-5.28355	1.31520	2.73645			
31	-5.44902	1.31474	2.75879			
32	-5.58170	1.26008	2.87009			
35	-5.01751	1.05223	2.94809			
37	-2.65028	0.158116	2.94625			
38	2.31947	-0.650000	2.90784			
39	0.721820E-02	0.417286	2.90258			
40	-6.58011	2.72628	2.85834			
41	-1.53717	0.285533	2.83631			
43	-0.745320	0.766299E-01	2.04684			

44	-0.745071	0.129423	1.76138
45	-0.744370	0.271297	1.06627

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***** ANSYS - ENGINEERING ANALYSIS SYSTEM REVISION 5.0 *****
40416-2 VERSION=SUN4SPARC 15:55:16 OCT 11, 1995 CP= 114.590
FOR SUPPORT CALL PHONE FAX

Modal analysis of coupled system of presurizer spray line & building

ANSYS VERSION FOR EDUCATIONAL PURPOSEF ONLY

***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION ***** FREQUENCY = 20.883
LOAD STEP= 1 MODE = 23 CUM. ITER.= 23

NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

NODE	UX	UY	UZ	ROTX	ROTY	ROTZ
46	-0.732368	1.03071	0.904225			
47	-0.731690	0.947660	1.06492			
48	-0.731099	0.c.8727	1.21416			
49	-C.730104	0.663417	1.44506			
50	-0.728946	0.463129	1.63990			
51	-0.728597	0.405317	1.69006			
52	-0.727305	0.215187	1.83731			
53	-0.721167	-0.163565E-01	1.75098			
54	-0.711550	0.470755	0.193769E-02			
55	-0.711332	0.479750	-0.413795E-01			
56	-0.509439	0.350576	-0.245887			
57	-0.405858	0.251835	-0.249986			
58	-0.327672	0.163166	-0.250071			
59	-0.229554	0.282562E-01	-0.250,94			
60	-0.150795	-0.106556	-0.250297			
61	-0.879505E-01	-0.244519	-0.250398			
62	-0.832974E-01	-0.256217	-0.250406			
63	-0.328247E-01	-0.397294	-0.211001			
64	-0.338245E-01	-0.235960	-0.174192			
65	-0.342782E-01	-0.145310	-0.176348			
66	-0.346546E-01	-0.466791E-01	-0.183716			
67	-0.349736E-01	0.376930E-01	-0.189740			
68	-0.352067E-01	0.948070E-01	-0.191845			
69	-0.353723E-01	0.150037	-0.191756			
70	-0.354962E-01	0.188143	-0.190217			
71	-0.35.704E-01	0.260721	-0.179647			
72	-0.360410E-01	0.311513	-0.154944			
73	-0.372362E-01	0.314549	0.262376			
74	-0.373682E-01	0.323094	0.355372			
75	-0.376324E-01	0.296288	0.557542			
76	-0.378883E-01	0.267745	0.754185			
77	-0.375967E-01	0.254168	0.840664			
78	-0.380132E-01	0.239891	0.957102			
79	-0.389477E-01	0.395581	0.423312			
80	-0.391142E-01	0.429193	0.122838			
81	-0.391546E-01	0.436296	0.572641E-01			
82	0.264889E-01	0.450143	-0.183886E-01			
83	0.333964E-01	0.522421E-01	-C.204915E-01			
84	0.232691E-01	0.352697E-01	-0.205861E-01			
85	0.168218E-01	0.243578E-01	-0.206539E-01			

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***** ANSYS - ENGINEERING ANALYSIS SYSTEM REVISION 5.0 *****
40416-2 VERSION=SUN4SPARC 15:55:16 OCT 11, 1995 CP= 114.640
FOR SUPPORT CALL PHONE FAX

Modal analysis of coupled system of presurizer spray line & building

ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY

***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION ***** FREQUENCY = 20.883
LOAD STEP= 1 MODE = 23 CUM. ITER.= 23

NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

NODE	UX	UY	UZ	ROTX	ROTY	ROTZ
86	0.108198E-02	-0.603496E-03	-0.212724E-02			
87	0.979018E-04	0.974920E-04	-0.390565E-03			
91	-0.641390	0.948225	1.20675			
92	-0.325722	0.949539	1.68689			
93	-0.268881	0.828577	1.81689			
94	-0.267449	C.753306	1.81691			
95	-0.235977	0.584004	1.81691			
96	-0.176319	0.417589	1.81652			
97	-0.170552	0.408521	1.81649			
98	-0.103450	0.253227	1.64487			
100	-0.871868E-01	0.253577	1.40463			
101	-0.724236E-01	0.253808	1.23637			
102	-0.528165E-01	0.254010	1.01741			
103	-0.229109	0.823305E-01	-0.196141			
104	-0.237978	0.432120	-0.339092			
105	-0.227599	0.538247	-0.393891			
106	-0.227167	0.613214	-0.422247			
107	-0.225453	0.708511	-0.246781			
109	-0.168269	0.618233	-0.191879			
111	-0.601094E-01	0.399258	-0.191861			
112	-0.422113E-01	0.315022	-0.191852			
113	0.124655	-0.328035E-01	1.23718			
114	0.284376	-0.186479	1.23769			
115	0.452506	-0.311529	1.23796			
116	0.705768	-0.469959	1.23828			

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   118    0.775831        -0.527334         1.29763
   120   -0.137179        -0.523101         1.25065
   122   -0.110592        -0.433351         1.16241
   124    0.725987E-02     -0.267785         1.16225
   125    0.282677         -0.5479966E-02    1.15147
   127    0.354142         -0.5987328E-02    1.14336
   129    0.328101         -0.3463355E-02    0.739406E-01
   130    0.381496E-05      0.1690358E-03   -0.387682E-03
   131    0.269462E-01     -0.1453178        0.568111E-02
   132    0.888828E-01     -0.1454436        0.188773
   133    0.260197E-02      0.260843         0.157087E-01
   134    0.452566E-01      0.360948         0.212340
   304    0.375045E-04      0.3006472E-04   -0.894271E-04
   306    0.794318E-04      0.5023448E-04   -0.257127E-03
   308    0.108474E-03      0.8171948E-04   -0.370480E-03
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 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
 40416-2        VERSION=SUN4SPARC     15:55:16  OCT 11, 1995 CP=     114.670
 FOR SUPPORT CALL                    PHONE                        FAX

  Modal analysis of coupled system of presurizer spray line & building

 **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


  ***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION *****   FREQUENCY =    20.883
     LOAD STEP=     1  MODE =  23   CUM. ITER.=     23

  NOTE - ALL VECTOR DOFS ARE IN MODAL COORDINATE SYSTEMS.

    NODE      UX              UY              UZ              ROTX            ROTY            ROTZ
     310    0.575847E-04     0.139856E-03   -0.459831E-03
     313   -0.630178E-05     0.174251E-03   -0.538377E-03
    9001   -0.876057E-01    -0.160378        -1.82799
    9002   -0.350240E-01    -0.212061        -1.81804
    9003    2.13867         -0.232359         0.548825E-01
    9004    2.27779         -0.230922         1.03739
    9005   -2.29622         -0.227128        -1.86539
    9006   -2.49307         -0.225264        -2.81528
    9007   -1.34654         -0.223211        -2.11587
    9008   -1.35348         -0.214817        -1.94546
    9009    7.15428          1.41577          1.87099
    9010    8.05472          1.41682          2.11607
    9011    1.43018          1.41026         -1.76933
    9012    3.65307          1.40565         -0.561843
    9013   -1.63175          1.39050          1.70637
    9014   -3.72399          1.38165          0.386698
    9015    3.65872          1.34682          4.95495
    9016    0.674202         1.33167          4.34204
    9017    5.20823         -2.86679          2.93563
    9018    7.19183         -3.20418          3.92282
    9019   -6.43065          3.08920          2.88165
    9020   -0.736582         1.12338         -0.593982
    9021   -0.384917E-01     0.279202         1.10902
    9022    0.151599         0.301931        -0.194443E-01
    9023    0.401297        -0.525396         1.87100
    9024    0.129891        -0.164681E-02    -0.115242

 MAXIMUMS
 NODE         9010            9018            9015             0               0               0
 VALUE        8.05472        -3.20418         4.95495           0.              0.              0.
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
 40416-2        VERSION=SUN4SPARC     15:55:16  OCT 11, 1995 CP=     114.710
 FOR SUPPORT CALL                    PHONE                        FAX

  Modal analysis of coupled system of presurizer spray line & building

 **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


  ***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION *****   FREQUENCY =    22.166
     LOAD STEP=     1  MODE =  24   CUM. ITER.=     24

  NOTE - ALL VECTOR DOFS ARE IN MODAL COORDINATE SYSTEMS.

    NODE      UX              UY              UZ              ROTX            ROTY            ROTZ
       1   -0.264197E-05     0.283026E-04   -0.390655E-04
       2    0.536250E-01     0.249081E-01    0.530940E-01
       3    0.237683         0.294336        0.555877
       4    0.240749         0.868300        1.88860
       5    0.242240         0.752903        2.52166
       6    0.406664         0.619274        2.37660
       7    0.534362         0.619366        2.18335
       9    0.267599E-01     0.620792       -0.495727
      10   -0.540275         0.620630        0.665361E-02
      11    0.259419         0.615051        1.08524
      12    0.984990         0.614134        0.357799
      13    1.19047          0.427455       -0.209893
      14    1.19061          0.320811       -0.456875
      15    1.19088          0.155949       -0.987876
      16    1.19112          0.186125       -2.08997
      17    1.26038          0.275320       -2.26121
      18    1.51790          0.527237       -2.51892
      19    1.76251          0.902370       -2.76372
      20    1.80763          1.69567        -2.80898
      21    1.31776          1.74974        -2.37650
      22   -0.466150         1.74004        -0.182784
      23   -0.266557         1.73860        -1.13987
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      24   -0.694440         1.73510        -2.60877
      25   -0.769777         1.70564         3.77042
      26    0.1850566        1.70213         3.25485
      27   -0.641746         1.65458        -0.967657
      28   -1.67885          1.64760         0.391845
      29   -2.44516          1.63613         4.24958
      30    4.91575          1.56230         0.788939
      31    4.96656          1.56157         0.764352
      32    4.74485          1.54194         0.772097
      35    3.93614          1.34774         0.837554
      37    1.20852          0.234623        0.834711
      38   -2.20078         -1.60467         0.796495
      39   -0.101014         0.244170        0.792051
      40    2.29057          4.94637         0.759908
      41    0.419219         0.879461        0.745140
      43    0.388387         0.226969        0.724859
      44    0.388167         0.200999        0.694416
      45    0.387560         0.146539        0.601914
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
 40416-2        VERSION=SUN4SPARC     15:55:16  OCT 11, 1995 CP=     114.760
 FOR SUPPORT CALL                    PHONE                        FAX

  Modal analysis of coupled system of presurizer spray line & building

 **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


  ***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION *****   FREQUENCY =    22.166
     LOAD STEP=     1  MODE =  24   CUM. ITER.=     24

  NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

    NODE      UX              UY              UZ              ROTX            ROTY            ROTZ
      46    0.377581         0.219179        0.181536
      47    0.377029         0.219891        0.181025
      48    0.376582         0.212717        0.176791
      49    0.375833         0.182876        0.167373
      50    0.374988         0.136140        0.146727
      51    0.374734         0.120025        0.139011
      52    0.373795         0.575698E-01    0.105869
      53    0.369408        -0.188129       -0.655223E-01
      54    0.362585        -0.512122        0.348268E-01
      55    0.362433        -0.519961        0.463935E-01
      56    0.284571        -0.515534        0.116803
      57    0.237268        -0.484031        0.116842
      58    0.200025        -0.454521        0.116873
      59    0.149668        -0.408742        0.116919
      60    0.105371        -0.361987        0.116957
      61    0.662640E-01    -0.315480        0.116994
      62    0.631950E-01    -0.311623        0.116997
      63    0.246825E-01    -0.188486        0.831032E-01
      64    0.248811E-01     0.165601E-01    0.188917E-01
      65    0.249705E-01     0.963946E-01   -0.734235E-03
      66    0.252866E-01     0.160762       -0.167470E-01
      67    0.255544E-01     0.202544       -0.275088E-01
      68    0.257193E-01     0.223991       -0.335448E-01
      69    0.258910E-01     0.238063       -0.377481E-01
      70    0.260073E-01     0.243432       -0.395447E-01
      71    0.262651E-01     0.238022       -0.381535E-01
      72    0.265755E-01     0.207506       -0.305461E-01
      73    0.279493E-01    -0.575628E-01    0.143216
      74    0.281017E-01    -0.843592E-01    0.184014
      75    0.284067E-01    -0.126625        0.271409
      76    0.287047E-01    -0.148342        0.351500
      77    0.290062E-01    -0.150077        0.383556
      78    0.288712E-01    -0.144498        0.423747
      79    0.286015E-01     0.148555        0.167076
      80    0.285409E-01     0.213961        0.440777E-01
      81    0.285256E-01     0.229124        0.175389E-01
      82    0.544153E-01     0.245614       -0.126525E-01
      83    0.226567E-01     0.239270E-01   -0.135140E-01
      84    0.169905E-01     0.152661E-01   -0.135525E-01
      85    0.133344E-01     0.966344E-02   -0.135800E-01
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
 40416-2        VERSION=SUN4SPARC     15:55:16  OCT 11, 1995 CP=     114.810
 FOR SUPPORT CALL                    PHONE                        FAX

  Modal analysis of coupled system of presurizer spray line & building

 **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


  ***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION *****   FREQUENCY =    22.166
     LOAD STEP=     1  MODE =  24   CUM. ITER.=     24

  NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

    NODE      UX              UY              UZ              ROTX            ROTY            ROTZ
      86    0.152327E-02    -0.127503E-02   -0.249509E-02
      87   -0.187035E-04     0.133139E-03   -0.185141E-03
      91    0.376120         0.220061        0.296825
      92    0.350785         0.220683        0.664603
      93    0.306466         0.138895        0.755596
      94    0.269534         0.805623E-01    0.755590
      95    0.211958        -0.120489E-02    0.755569
      96    0.159453        -0.806207E-01    0.755361
      97    0.157094        -0.847081E-01    0.755350
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    98    0.105904       -0.150711        0.684468
   100    0.740256E-01   -0.150458        0.590532
   101    0.549955E-01   -0.150305        0.527288
   102    0.366792E-01   -0.150179        0.446793
   103    0.149438       -0.363350        0.804854E-01
   104    0.148850       -0.261896        0.101457
   105    0.148649       -0.210135        0.113121
   106    0.148410       -0.142381        0.115150
   107    0.147451        0.166776       -0.157702E-02
   109    0.114034        0.207818       -0.335585E-01
   111    0.488614E-01    0.221483       -0.335509E-01
   112    0.364232E-01    0.223412       -0.335474E-01
   113    0.963364E-01   -0.237424        0.527775
   114    0.134089       -0.286045        0.528091
   115    0.174999       -0.279653        0.528294
   116    0.236937       -0.301544        0.526550
   118    0.261653       -0.320913        0.553506
   120    0.809938E-03   -0.316608        1.09133
   122   -0.850858E-02   -0.265400        1.04377
   124    0.291943E-02   -0.161452        1.04368
   125    0.296299E-01    0.351001E-02    1.04306
   127    0.428150E-01   -0.553090E-02    1.01961
   129    0.669311E-01   -0.317091E-02    0.631315E-01
   130    0.317276E-04    0.226091E-03   -0.257612E-03
   131    0.702109E-01    0.964453E-01   -0.176443E-01
   132    0.116771        0.964891E-01   -0.349172E-01
   133    0.140107E-01    0.238147       -0.222201E-01
   134    0.189041E-02    0.238255       -0.651883E-02
   304   -0.274181E-05    0.282464E-04   -0.391040E-04
   306   -0.150751E-04    0.7012222E-04  -0.120621E-03
   308   -0.273603E-04    0.1125218-03   -0.176772E-03
1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2            VERSION=SUN4SPARC     15:55:16  OCT 11, 1995 CP=     114.850
FOR SUPPORT CALL                    PHONE                        FAX

 Modal analysis of coupled system of pressurizer spray line & building

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**

 ***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION *****   FREQUENCY =    22.166
    LOAD STEP=      1  MODE =  24   CUM. ITER.=     24

 NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

   NODE      UX              UY              UZ              ROTX            ROTY            ROTZ
    310    0.712358E-05    0.189075E-03   -0.223915E-03
    313    0.441206E-04    0.233959E-03   -0.390350E-03
   9001    0.258346        0.697250        2.56393
   9002    0.313718        0.643353        2.51170
   9003    3.07130         0.620512       -1.03671
   9004    3.10231         0.620968       -2.31775
   9005   -2.37662         0.619253        2.26856
   9006   -1.88312         0.617392        2.71688
   9007    1.09447         0.584993        0.193709
   9008    1.16676         0.513395       -0.115802E-01
   9009   -2.94954         1.74875         2.55046
   9010   -3.08945         1.74552         3.74224
   9011   -2.81521         1.72681        -3.14969
   9012   -3.32429         1.71699        -0.430798
   9013    2.99497         1.68797         2.60088
   9014    2.47841         1.67212        -0.343145
   9015   -1.00136         1.61331         10.0968
   9016    2.40320         1.58868         6.78958
   9017   -7.21487        -4.54774         0.822658
   9018   -8.12459        -5.64769         0.809815
   9019    3.49007         5.22196         0.776342
   9020    0.382695        0.899081E-01    0.246379
   9021    0.287457E-01   -0.314967E-01    0.456682
   9022    0.911583E-01    0.152085       -0.130866E-01
   9023    0.206529       -0.318884        1.14779
   9024    0.287039E-01   -0.147210E-02   -0.101156

MAXIMUMS
NODE        9018            9018            9015             0               0               0
VALUE      -8.12459        -5.64769         10.0968          0.              0.              0.
1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2            VERSION=SUN4SPARC     15:55:16  OCT 11, 1995 CP=     114.890
FOR SUPPORT CALL                    PHONE                        FAX

 Modal analysis of coupled system of pressurizer spray line & building

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**

 ***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION *****   FREQUENCY =    23.055
    LOAD STEP=      1  MODE =  25   CUM. ITER.=     25

 NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

   NODE      UX              UY              UZ              ROTX            ROTY            ROTZ
     1   -0.168441E-04    0.917065E-05   -0.871636E-05
     2    0.121732       -0.131134        0.124849
     3    0.668712       -0.783712        1.76700
     4    0.661769       -0.593520        7.61946
     5    0.458123        0.528574        10.8597
     6    0.320384E-01    1.08182         10.3940
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     7   -0.412421        1.08155         9.54522
     9   -0.197295        1.06281        -2.05817
    10    1.15352         1.06127       -0.472655E-01
    11   -0.192057        1.03277         0.839012
    12   -0.822126        1.02899        -2.67027
    13   -0.822051        0.950196       -3.86378
    14   -0.822511        0.803208       -3.87017
    15   -0.823484        0.377092       -3.85327
    16   -0.825459       -0.855493       -3.48663
    17   -0.896119       -0.887746       -3.30815
    18   -1.30178        -0.436536       -2.90369
    19   -2.05134        -0.590846E-02   -2.15553
    20   -4.60129         0.748796E-01    0.392302
    21   -4.46552        -0.416575E-01    0.450079
    22    0.732856       -0.432440E-01    1.34564
    23    0.894090E-01    0.433359E-01    1.35901
    24   -0.854722       -0.434936E-01    1.00905
    25    1.34993        -0.442383E-01   -1.02974
    26    1.52684        -0.442891E-01   -0.582904
    27   -1.44295        -0.445214E-01    0.561911
    28   -1.20455        -0.446324E-01    9.715492E-01
    29   -0.329858       -0.446215E-01   -0.313189
    30   -0.980313       -0.442760E-01    0.865182
    31   -1.05556        -0.442706E-01    0.864528
    32   -1.22303        -0.422596E-01    0.860370
    35   -1.22313        -0.345093E-01    0.857351
    37   -0.942224        0.713034E-03    0.857140
    38    0.411007        0.650268E-01    0.848586
    39   -0.161901E-01   -0.722879E-02    0.847262
    40   -1.79558        -0.233250        0.835110
    41   -0.432094       -0.123920        0.828820
    43   -0.203220       -0.280140E-01    0.598300
    44   -0.205151        0.344207E-02    0.513467
    45   -0.202954        0.840499E-01    0.304279
1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2            VERSION=SUN4SPARC     15:55:16  OCT 11, 1995 CP=     114.930
FOR SUPPORT CALL                    PHONE                        FAX

 Modal analysis of coupled system of pressurizer spray line & building

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**

 ***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION *****   FREQUENCY =    23.055
    LOAD STEP=      1  MODE =  25   CUM. ITER.=     25

 NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

   NODE      UX              UY              UZ              ROTX            ROTY            ROTZ
    46   -0.199514        0.429417        0.316286E-01
    47   -0.199317        0.392840        0.733081E-01
    48   -0.199148        0.350490        0.112410
    49   -0.198862        0.272632        0.174041
    50   -0.198522        0.192760        0.228792
    51   -0.198419        0.170976        0.243542
    52   -0.198040        0.986430E-01    0.290223
    53   -0.196225        0.820151E-01    0.336146
    54   -0.193344        0.448199       -0.134505E-01
    55   -0.193279        0.455317       -0.237436E-01
    56   -0.142658        0.373349       -0.750778E-01
    57   -0.116246        0.304009       -0.751235E-01
    58   -0.964942E-01    0.241388       -0.751615E-01
    59   -0.717447E-01    0.186649       -0.752178E-01
    60   -0.521465E-01    0.508965E-01   -0.752669E-01
    61   -0.389152E-01   -0.453811E-01   -0.753153E-01
    62   -0.358143E-01   -0.534785E-01   -0.753193E-01
    63   -0.251379E-01   -0.177378       -0.682073E-01
    64   -0.253396E-01   -0.159419       -0.702048E-01
    65   -0.254304E-01   -0.135158       -0.742962E-01
    66   -0.255474E-01   -0.990186E-01   -0.771500E-01
    67   -0.256462E-01   -0.621374E-01   -0.779700E-01
    68   -0.257134E-01   -0.343361E-01   -0.773796E-01
    69   -0.257784E-01   -0.498408E-02   -0.758103E-01
    70   -0.258224E-01    0.170682E-01   -0.740479E-01
    71   -0.259196E-01    0.651041E-01   -0.680942E-01
    72   -0.267147E-01    0.108969       -0.529269E-01
    73   -0.264303E-01    0.234861        0.871264E-02
    74   -0.264751E-01    0.240755        0.178604E-01
    75   -0.265648E-01    0.247422        0.357211E-01
    76   -0.266469E-01    0.247789        0.514951E-01
    77   -0.266556E-01    0.248300        0.580732E-01
    78   -0.266956E-01    0.243471        0.670585E-01
    79   -0.268343E-01   -0.240417E-02    0.385098E-01
    80   -0.268513E-01   -0.735558E-01    0.158943E-01
    81   -0.268550E-01   -0.906009E-01    0.107802E-01
    82   -0.213934E-01   -0.992108E-01    0.466034E-02
    83   -0.459600E-02   -0.247829E-02    0.448735E-02
    84   -0.469172E-02   -0.577857E-03    0.447925E-02
    85   -0.479620E-02    0.704062E-03    0.447343E-02
1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2            VERSION=SUN4SPARC     15:55:16  OCT 11, 1995 CP=     114.970
FOR SUPPORT CALL                    PHONE                        FAX

 Modal analysis of coupled system of pressurizer spray line & building

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**
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 ***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION *****   FREQUENCY =   23.055
    LOAD STEP=     1  MODE =  25   CUM. ITER.=     25

 NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

   NODE        UX              UY              UZ              ROTX            ROTY            ROTZ
     86   -0.136292E-02    0.143804E-02    0.172655E-02
     87    0.231333E-04    0.436609E-04   -0.787989E-04
     91   -0.1604401       0.392972        0.111449
     92   -0.243864E-01    0.593438        0.244069
     93   -0.242651E-02    0.584061        0.277562
     94   -0.109839E-01    0.543589        0.277616
     95   -0.185859E-01    0.513321        0.277694
     96   -0.209596E-01    0.279649        0.277697
     97   -0.209746E-01    0.277808        0.277697
     98   -0.271343E-01    0.246016        0.242252
    100   -0.299904E-01    0.246090        0.190206
    101   -0.299484E-01    0.246138        0.151777
    102   -0.284521E-01    0.246229        0.100534
    103   -0.716920E-01    0.166986       -0.660756E-01
    104   -0.715526E-01    0.356952       -0.127264
    105   -0.715022E-01    0.400808       -0.145422
    106   -0.714316E-01    0.414289       -0.152297
    107   -0.711389E-01    0.306890       -0.912174E-01
    109   -0.572594E-01    0.238379       -0.774188E-01
    111   -0.324005E-01    0.117916       -0.773969E-01
    112   -0.286094E-01    0.736173E-01   -0.773871E-01
    113   -0.192560E-01    0.155892        0.151830
    114   -0.113559E-01    0.844809E-01    0.151858
    115   -0.3010622E-02   0.125863E-01    0.151851
    116    0.101431E-01   -0.813281E-01    0.151827
    118    0.137055E-01   -0.106164        0.175061
    120   -0.273913E-01   -0.107502       -0.268060
    122   -0.184222E-01   -0.915610E-01   -0.265859
    124    0.861927E-03   -0.681996E-01   -0.265877
    125    0.474221E-01   -0.150474E-01   -0.265799
    127    0.577022E-01    0.112137E-02   -0.267885
    129    0.481066E-01    0.687695E-03   -0.118533E-01
    130    0.616077E-04    0.630962E-04   -0.713160E-04
    131   -0.537788E-02   -0.135235        0.250626E-01
    132    0.147228E-01   -0.135301        0.125459
    133    0.421447E-02    0.651411E-01    0.184109E-01
    134    0.346103E-01    0.651732E-01    0.105767
    304   -0.166376E-04    0.928301E-05   -0.889546E-05
    306   -0.131479E-04    0.261760E-04   -0.515783E-04
    308    0.145169E-04    0.391173E-04   -0.768043E-04
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC     15:55:16  OCT 11, 1995 CP=    115.010
FOR SUPPORT CALL                    PHONE                    FAX

 Modal analysis of coupled system of presurizer spray line & building

 **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


 ***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION *****   FREQUENCY =   23.055
    LOAD STEP=     1  MODE =  25   CUM. ITER.=     25

 NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

   NODE        UX              UY              UZ              ROTX            ROTY            ROTZ
    310    0.487816E-04    0.560290E-04   -0.894043E-04
    313    0.814777E-04    0.654596E-04   -0.106767E-03
   9001    0.588048        0.778871        11.1285
   9002    0.370375        0.992995        10.9630
   9003   -8.26073         1.07656         -4.42933
   9004   -8.37049         1.07031         -9.77352
   9005    4.90233         1.05266          8.32024
   9006    3.42533         1.04315          8.80578
   9007   -0.850106        1.03352         -3.27038
   9008   -0.837290        1.01670         -3.70310
   9009    1.01609        -0.422454E-01    -1.18975
   9010    3.13095        -0.427744E-01    -0.237429E-02
   9011   -1.30641        -0.437840E-01    -0.533426
   9012   -0.627875E-01   -0.440324E-01    -1.65667
   9013    0.963739       -0.444481E-01     1.25746
   9014   -0.683669       -0.445589E-01     1.75270
   9015    1.54730        -0.445600E-01    -0.684949E-01
   9016    1.40587        -0.444447E-01     0.617153
   9017    0.292931        0.179043         0.855063
   9018    0.973893        0.225920         0.852211
   9019   -1.61276        -0.220582         0.841609
   9020   -0.201305        0.499952        -0.298738
   9021   -0.267744E-01    0.165800         0.850676E-01
   9022   -0.490907E-02   -0.346827E-01     0.457519E-02
   9023   -0.907441E-02   -0.106878         0.757349E-01
   9024    0.190640E-01    0.375360E-03     0.237547E-01

 MAXIMUMS
 NODE         9004             6             9001             0               0               0
 VALUE       -8.37049         1.08182         11.1285          0.              0.              0.
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC     15:55:16  OCT 11, 1995 CP=    115.050
FOR SUPPORT CALL                    PHONE                    FAX

 Modal analysis of coupled system of presurizer spray line & building
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 **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


 ***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION *****   FREQUENCY =   23.467
    LOAD STEP=     1  MODE =  26   CUM. ITER.=     26

 NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

   NODE        UX              UY              UZ              ROTX            ROTY            ROTZ
      1    0.583284E-04    0.287806E-04    0.147106E-04
      2    0.132140        0.714485E-02    0.110296
      3    0.475846        0.9315184E-01   1.[illegible]001
      4    0.484638       -0.312030        3.46478
      5    0.488945       -1.55721         4.[illegible]64
      6    1.16677        -2.14274         4.[illegible]08
      7    1.60861        -2.14244         3.8[illegible]41
      8    0.371281       -2.11613        -1.01640
      9   -0.698038       -2.11368        -0.134162
     10    1.79042        -2.06536        -0.554864
     11    1.65072        -2.05880        -1.60458
     12    1.39451        -1.73445        -1.84575
     13    1.39471        -1.43532        -1.78991
     14    1.39510        -0.768749       -1.65745
     15    1.39549         [illegible]345010       -1.25093
     16    1.35426         0.494115       -1.15389
     17    1.14975         0.669161       -0.9[illegible]236
     18    0.811906        0.705325       -0.[illegible]1213
     19   -0.266298        0.112835        0.46[illegible]86
     20   -0.374791        0.992575E-02    0.712512
     21    5.343120E-01    0.146920E-02   -0.858549
     22    0.112285E-01    0.869866E-03   -0.792573
     23   -0.9783282E-03   -0.285188E-03   -0.442960
     24    0.477679E-01    -0.734011E-02   0.411827
     25    0.241207E-01    -0.8007222E-02  0.7760718E-01
     26   -0.452590E-02    -0.154098E-01   -0.253731
     27    0.263531E-01    -0.163233E-01   -0.9061758E-02
     28    0.554350E-01    -0.1769145E-01  -0.262566
     29   -0.432473        -0.252267E-01   -0.267437
     30   -0.443970        -0.252926E-01   -0.257309
     31   -0.442135        -0.320441E-01   -0.238439
     32   -0.372053        -0.329067E-01   -0.236550
     33   -0.9963355E-01    0.5557522E-01  -0.236201
     34    0.211306         0.952452       -0.230433
     35    0.1416422E-01    0.307391       -0.229701
     36   -0.485846E-01    -2.08560        -0.223925
     37   -0.1809798E-02   -0.729156       -0.221139
     38   -0.3042922E-01   -0.120644       -0.185616
     39   -0.304096E-01     0.328860E-01   -0.169525
     40   -0.303554E-01     0.436905       -0.127497
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC     15:55:16  OCT 11, 1995 CP=    115.090
FOR SUPPORT CALL                    PHONE                    FAX

 Modal analysis of coupled system of presurizer spray line & building

 **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


 ***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION *****   FREQUENCY =   23.467
    LOAD STEP=     1  MODE =  26   CUM. ITER.=     26

 NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

   NODE        UX              UY              UZ              ROTX            ROTY            ROTZ
     46   -0.294659E-01    2.60572         0.190488
     47   -0.294167E-01    2.40205         0.221362
     48   -0.294193E-01    2.15781         0.253566
     49   -0.294229E-01    1.70514         0.299325
     50   -0.294165E-01    1.25167         0.332515
     51   -0.294170E-01    1.12800         0.339873
     52   -0.294111E-01    0.773928        0.356274
     53   -0.293634E-01    1.59555         0.249336
     54   -0.292613E-01    5.65625        -0.133475
     55   -0.292584E-01    5.73527        -0.139851
     56   -0.212410E-01    4.85003        -0.159566
     57   -0.2950888E-01   4.07395        -0.159866
     58   -0.4211138E-01   3.16943        -0.160128
     59   -0.692877E-01    2.29981        -0.160519
     60   -0.105168        1.21752        -0.160390
     61   -0.150056        0.131742       -0.161290
     62   -0.154784        0.4065311E-01  -0.161291
     63   -0.232314       -2.49362        -0.250322
     64   -0.232190       -1.79612        -0.540815
     65   -0.232125       -1.73237        -0.639013
     66   -0.232532       -1.49638        -0.690284
     67   -0.232473       -1.19017        -0.701894
     68   -0.233084       -0.930516       -0.694932
     69   -0.233479       -0.634705       -0.675861
     70   -0.233719       -0.397045       -0.654002
     71   -0.234245        0.168381       -0.587253
     72   -0.234452        0.760341       -0.503496
     73   -0.235301        3.11521        -0.415248
     74   -0.235379        3.29780        -0.485069
     75   -0.235533        3.58972        -0.670818
     76   -0.235622        3.77802        -0.885371
     77   -0.236178        3.83574        -0.991848
     78   -0.235737        3.89994        -1.14248
     79   -0.235382       -1.18701        -0.416622
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80	-0.235229	-2.72533	-0.233245E-01
81	-0.235188	-3.09106	0.624330E-01
82	-0.316918	-3.35655	0.158264
83	-0.152668	-0.260712	0.160887
84	-0.132334	-0.160464	0.160997
85	-0.119340	-0.942107E-01	0.161075

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***** ANSYS - ENGINEERING ANALYSIS SYSTEM REVISION 5.0 *****
40416-2 VERSION=SUN4SPARC 15:55:16 OCT 11, 1995 CP= 115.130
FOR SUPPORT CALL PHONE FAX

Modal analysis of coupled system of presurizer spray line & building

ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY

***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION ***** FREQUENCY = 23.467
LOAD STEP= 1 MODE = 26 CUM. ITER.= 26

NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

NODE	UX	UY	UZ	ROTX	ROTY	ROTZ
46	-0.261982E-01	0.256734E-01	0.448635E-01			
87	0.585440E-04	0.154902E-03	0.703690E-04			
91	0.190106	2.40320	0.122334			
92	0.975667	2.40737	-0.462352			
93	1.09965	2.70585	-0.739348			
94	0.985026	2.97745	-0.739455			
95	0.791037	3.37011	-0.739605			
96	0.575720	3.68675	-0.739550			
97	0.564434	3.70027	-0.739546			
98	0.226618	3.83741	-0.651699			
100	0.521472E-01	3.83788	-0.674034			
101	-0.513166E-01	3.83816	-0.741876			
102	-0.162094	3.83906	-0.865673			
103	-0.701504E-01	2.42106	-0.237694			
104	-0.722962E-01	4.11201	-0.552023			
105	-0.729836E-01	4.42060	-0.617765			
106	-0.736498E-01	4.37720	-0.641845			
107	-0.761787E-01	2.48424	-0.657113			
109	-0.120898	1.71439	-0.695304			
111	-0.223028	0.515569	-0.695095			
112	-0.238668	0.917301E-01	-0.695003			
113	-0.479759	3.42760	-0.743915			
114	-0.896983	2.94560	-0.745314			
115	-1.37841	2.40581	-0.746532			
116	-2.17160	1.77030	-0.748259			
118	-2.36444	1.69875	-0.743778			
120	1.51263	1.66138	-8.24160			
122	1.06665	1.43171	-8.05624			
124	-0.616738E-01	0.868418	-8.05587			
125	-2.80224	-0.606131E-01	-8.05155			
127	-3.45321	0.475023E-01	-7.83894			
129	-3.11866	0.281572E-01	-0.474622			
130	-0.483264E-04	0.299517E-03	0.116444E-03			
131	-0.129536	-1.73339	0.360595			
132	-0.282715E-01	-1.73427	1.37262			
133	0.142779	0.168480	0.173450			
134	0.524594	0.168566	0.942026			
304	0.580444E-04	0.286928E-04	0.146498E-04			
306	0.964108E-04	0.705018E-04	0.350325E-04			
308	0.767724E-04	0.124087E-03	0.631956E-04			

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***** ANSYS - ENGINEERING ANALYSIS SYSTEM REVISION 5.0 *****
40416-2 VERSION=SUN4SPARC 15:55:16 OCT 11, 1995 CP= 115.170
FOR SUPPORT CALL PHONE FAX

Modal analysis of coupled system of presurizer spray line & building

ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY

***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION ***** FREQUENCY = 23.467
LOAD STEP= 1 MODE = 26 CUM. ITER.= 26

NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

NODE	UX	UY	UZ	ROTX	ROTY	ROTZ
310	0.654615E-05	0.240981E-03	0.108422E-03			
311	-0.746579E-04	0.310874E-03	0.187659E-03			
9001	0.563506	-1.82388	4.67253			
9002	0.792992	-2.04975	4.54025			
9003	9.39568	-2.13626	-3.06107			
9004	8.58217	-2.12748	-5.11061			
9005	-2.49215	-2.09941	2.79465			
9006	-0.308754	-2.08331	2.36443			
9007	1.54716	-2.02760	-1.75895			
9008	1.44178	-1.91833	-1.84440			
9009	0.518081E-01	0.711522E-02	0.817095			
9010	0.166276	0.429530E-02	-0.230392			
9011	0.489339E-01	-0.263996E-02	0.643655			
9012	0.884699E-01	-0.499295E-02	1.11213			
9013	-0.658218E-01	-0.104872E-01	-1.04361			
9014	-0.790443E-01	-0.129553E-01	-1.05851			
9015	0.104635E-01	-0.202292E-01	-0.999038			
9016	-0.137015	-0.227426E-01	-0.939866			
9017	0.757007	1.31211	-0.234498			
9018	0.828151	2.04510	-0.232575			
9019	-0.219252	-1.78246	-0.226931			

9020	-0.299215E-01	2.80287	0.348816E-01
9021	-0.235646	2.50886	-1.33407
9022	-0.410043	-1.74626	0.159622
9023	-0.559303	1.68079	-5.63909
9024	-1.25653	0.142264E-01	0.769346

MAXIMUMS

NODE	9003	55	120	0	0	0
VALUE	9.39568	5.73527	-8.24160	0.	0.	0.

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***** ANSYS - ENGINEERING ANALYSIS SYSTEM REVISION 5.0 *****
40416-2 VERSION=SUN4SPARC 15:55:16 OCT 11, 1995 CP= 115.200
FOR SUPPORT CALL PHONE FAX

Modal analysis of coupled system of presurizer spray line & building

ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY

***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION ***** FREQUENCY = 23.523
LOAD STEP= 1 MODE = 27 CUM. ITER.= 27

NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

NODE	UX	UY	UZ	ROTX	ROTY	ROTZ
1	0.466368E-04	-0.629039E-04	-0.121865E-04			
2	0.126698	-0.569066E-02	0.124763			
3	0.547549	0.696277E-02	1.26035			
4	0.556309	-0.485957	4.18366			
5	0.560582	-1.75055	5.61829			
6	1.21681	-2.33456	5.19018			
7	1.67241	-2.33426	4.67666			
9	0.386310	-2.30689	-1.22165			
10	-0.622206	-2.30429	-0.158046			
11	1.83959	-2.25262	-0.748915			
12	1.56193	-2.24555	-2.07124			
13	1.25955	-1.87644	-2.34591			
14	1.25973	-1.54869	-2.24896			
15	1.26007	-0.834388	-2.02494			
16	1.26041	0.277540	-1.39371			
17	1.20090	0.423758	-1.25283			
18	0.915452	0.608184	-0.967220			
19	0.465911	0.614269	-0.517451			
20	-0.874485	-0.231475	0.823570			
21	-0.890518	-0.385814	1.06125			
22	0.168061	-0.391921	-0.812085			
23	0.932439E-01	-0.392160	-0.667435			
24	0.220501	-0.392441	-0.206800			
25	0.144668	-0.392095	0.147032			
26	-0.158418	-0.391878	-0.207156			
27	0.376656	-0.387292	-0.140630			
28	0.649793	-0.386443	-0.120921			
29	0.747899	-0.384916	-0.641167			
30	-0.890855	-0.373815	-0.461375			
31	-0.881880	-0.373697	-0.479479			
32	-0.790484	-0.364257	-0.494507			
35	-0.620631	-0.310812	-0.513469			
37	-0.117722	-0.282960E-01	-0.512800			
38	0.362640	0.434235	-0.501295			
39	0.291703E-01	-0.109784	-0.499812			
40	0.103890	-1.22532	-0.467959			
41	0.470662E-01	0.142805	-0.482204			
43	-0.322036E-01	-0.336185E-01	-0.389504			
44	-0.321739E-01	-0.175833	-0.349448			
45	-0.320928E-01	-0.558880	-0.245528			

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***** ANSYS - ENGINEERING ANALYSIS SYSTEM REVISION 5.0 *****
40416-2 VERSION=SUN4SPARC 15:55:17 OCT 11, 1995 CP= 115.250
FOR SUPPORT CALL PHONE FAX

Modal analysis of coupled system of presurizer spray line & building

ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY

***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION ***** FREQUENCY = 23.523
LOAD STEP= 1 MODE = 27 CUM. ITER.= 27

NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

NODE	UX	UY	UZ	ROTX	ROTY	ROTZ
46	-0.307949E-01	-2.82765	-0.131658			
47	-0.307242E-01	-2.61738	-0.177185			
48	-0.306527E-01	-2.36056	-0.221872			
49	-0.305312E-01	-1.87193	-0.284266			
50	-0.304049E-01	-1.37458	-0.329530			
51	-0.303663E-01	-1.23584	-0.339696			
52	-0.302244E-01	-0.825541	-0.363526			
53	-0.295757E-01	-1.45417	-0.253506			
54	-0.285875E-01	-5.29375	0.125186			
55	-0.285659E-01	-5.36701	0.130137			
56	-0.245024E-01	-4.46971	0.139261			
57	-0.860056E-02	-3.70888	0.139553			
58	0.1913158-01	-3.01924	0.139810			
59	0.457962E-01	-1.97340	0.140192			
60	0.893928E-01	-0.915951	0.140555			
61	0.141329	0.144947	0.140917			
62	0.146082	0.233975	0.140948			
63	0.231633	1.68050	0.236879			

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    64    0.231482          1.80255          0.542828
    65    0.231405          1.66630          0.648917
    66    0.231674          1.37045          0.707230
    67    0.231898          1.02503          0.724213
    68    0.232039         0.745497          0.720370
    69    0.232345         0.435781          0.703550
    70    0.232530         0.192883          0.682644
    71    0.232929        -0.367939          0.615319
    72    0.233035        -0.910841          0.526579
    73    0.233441         -3.01097          0.312076
    74    0.233470         -3.16275          0.351512
    75    0.233525         -3.40163          0.471422
    76    0.233514         -3.55324          0.623991
    77    0.233886         -3.60392          0.704592
    78    0.233575         -3.65519          0.621515
    79    0.233490         0.996418          0.287680
    80    0.233388          2.40784        -0.641901E-02
    81    0.233360          2.74368        -0.693425E-01
    82    0.293343          2.98153         -0.140050
    83    0.134895         0.222767         -0.141983
    84    0.118264         0.135462         -0.142063
    85    0.107620         0.777220E-01     -0.142120
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 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
 40416-2          VERSION=SUN4SPARC     15:55:17  OCT 11, 1995 CP=     115.280
 FOR SUPPORT CALL                    PHONE                    FAX

  Modal analysis of coupled system of presurizer spray line & building

  **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


  ***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION *****   FREQUENCY =    23.523
     LOAD STEP=      1  MODE =  27   CUM. ITER.=     27

  NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

    NODE        UX               UY               UZ               ROTX             ROTY             ROTZ
      86    0.2415798E-01   -0.2403988E-01   -0.4039998E-01
      87    0.6623938-05    -0.2942108-03    -0.3187878-04
      91   -0.257106         -2.61865         -0.200631
      92    -1.04941         -2.62325         -0.352506E-01
      93    -1.15247         -2.81812          0.128820
      94    -1.02093         -3.01403          0.128856
      95   -0.8037742        -3.30205          0.128908
      96   -0.5771261        -3.52347          0.128925
      97   -0.5593126        -3.53233          0.128926
      98   -0.2157752        -3.60111          0.109727
     100   -0.4086535E-01    -3.60177          0.214235
     101    0.6116445-01     -3.60217          0.355523
     102    0.1671221        -3.60316          0.526256
     103    0.4659078-01     -2.13695          0.225898
     104    0.4891898-01     -3.96213          0.551878
     105    0.4963478-01     -4.30041          0.619702
     106    0.5033608-01     -4.31531          0.645685
     107    0.5300708-01     -2.66082          0.677864
     109    0.102731         -1.91589          0.720753
     111    0.215510         -0.717572         0.720538
     112    0.233755         -0.287619         0.720443
     113    0.446391         -3.11536          0.337096
     114    0.826810         -2.60462          0.338190
     115     1.26883         -2.04688          0.339201
     116     2.00222         -1.37725          0.340659
     118     2.17716         -1.26021          0.304618
     120    -1.48983         -1.24727           7.17764
     122    -1.04636         -1.07860           7.04876
     124    0.596258E-01     -0.641098          7.04849
     125     2.74818          0.6772188-01      7.04480
     127     3.38447         -0.4127238-01      6.84669
     129     3.04974         -0.2455498-01     0.409570
     130   -0.1384998-03     -0.4804698-03     0.576483E-04
     131    0.864835E-01       1.66728        -0.348366
     132   -0.580733E-01       1.66814         -1.35791
     133   -0.133318         -0.368157        -0.165616
     134   -0.504148         -0.368346        -0.954472
     304    0.4635258-04     -0.6298518-04     -0.1226298-04
     306    0.6720478-04     -0.1609418-03     -0.4276298-04
     308    0.3222948-04     -0.2528228-03     -0.4068928-04
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
 40416-2          VERSION=SUN4SPARC     15:55:17  OCT 11, 1995 CP=     115.330
 FOR SUPPORT CALL                    PHONE                    FAX

  Modal analysis of coupled system of presurizer spray line & building

  **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


  ***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION *****   FREQUENCY =    23.523
     LOAD STEP=      1  MODE =  27   CUM. ITER.=     27

  NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

    NODE        UX               UY               UZ               ROTX             ROTY             ROTZ
     310   -0.759523E-04     -0.4087658-03     -0.5887018-05
     313   -0.1905228-03     -0.4990158-03      0.1056378-03
    9001     0.635076         -2.01722          5.70675
    9002     0.863575         -2.24220          5.55356
    9003      9.31949         -2.32797         -3.61792
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    9004      8.42335         -2.31884         -6.12701
    9005     -2.13907         -2.28908          3.39220
    9006    0.546399E-01      -2.27185          2.86360
    9007      1.43480         -2.20794         -2.26358
    9008      1.31269         -2.08194         -2.36102
    9009     0.808620        -0.388413         0.635413
    9010      1.03017        -0.390449        -0.527617
    9011     0.688872        -0.392719         0.876854
    9012     0.974255        -0.393604          1.08457
    9013    -0.964585        -0.390790         -1.18577
    9014    -0.642543        -0.389261        -0.939800
    9015    0.540900E-01      -0.381893         -1.84185
    9016    -0.825498         -0.377990         -1.46506
    9017      1.41931          1.31850        -0.509444
    9018      1.48975          1.64477        -0.505608
    9019    -0.245328         -1.49869        -0.494144
    9020    -0.314554E-01      -2.96031         0.970411E-01
    9021     0.233618         -2.38287          0.975542
    9022     0.347762          1.52313         -0.141058
    9023     0.446792         -1.26429          0.50686
    9024      1.22877        -0.125161E-01     -0.668987

 MAXIMUMS
 NODE          9003              55              120               0               0               0
 VALUE         9.31949         -5.36701          7.17764           0.              0.              0.
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
 40416-2          VERSION=SUN4SPARC     15:55:17  OCT 11, 1995 CP=     115.360
 FOR SUPPORT CALL                    PHONE                    FAX

  Modal analysis of coupled system of presurizer spray line & building

  **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


  ***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION *****   FREQUENCY =    24.109
     LOAD STEP=      1  MODE =  28   CUM. ITER.=     28

  NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

    NODE        UX               UY               UZ               ROTX             ROTY             ROTZ
       1   -0.6814598-04     0.1314718-04      0.2749958-04
       2   -0.2510678-02     0.2284958-02     -0.2446008-02
       3   -0.1256508-01     0.1464708-01     -0.3183078-01
       4   -0.1252648-01     0.2326798-01     -0.130162
       5   -0.1250398-01     0.1962818-01     -0.184473
       6   -0.8906148-02     0.1662728-01     -0.179550
       7   -0.6174278-02     0.1662868-01     -0.157229
       9    0.4572478-03     0.1660088-01      0.376007E-01
      10   -0.9752908-02     0.1659158-01      0.5401558-02
      11    0.2185318-01     0.1635318-01      0.593861E-01
      12    0.3849178-01     0.1631708-01      0.109763
      13    0.4367438-01     0.1137698-01      0.112807
      14    0.4367518-01     0.8225298-02      0.102627
      15    0.4367498-01     0.2871828-02      0.602766E-01
      16    0.4365778-01     0.1429588-02      0.291914E-01
      17    0.4730858-01    -0.3559768-03      0.202778E-01
      18    0.6222218-01    -0.9645498-02      0.533222E-02
      19    0.8019338-01    -0.1456078-01     -0.126893E-01
      20     0.110269        0.263057E-01     -0.429278E-01
      21     0.855099E-01     0.4041648-01     -0.402197E-01
      22    -0.3269238-01     0.3599138-01      0.1980658-02
      23    -0.2463248-01     0.3994058-01      0.5565888-02
      24    -0.7869968-02     0.3982338-01      0.1026178-01
      25     0.1187488-02     0.3888818-01     -0.1179388-01
      26     0.8704468-01     0.3878008-01     -0.1206278-01
      27    -0.150834         0.3734878-01      0.516284E 02
      28    -0.210658         0.3714208-01     -0.1127378-02
      29    -0.198350         0.2680528-01     -0.1496578-01
      30     0.193343         0.3466438-01      0.7465098-01
      31     0.188602         0.3464348-01      0.7690888-01
      32     0.158488         0.3198178-01      0.8314798-01
      35     0.111306         0.2564968-01      0.8575728-01
      37    -0.1943478-01     0.1187458-01      0.8573988-01
      38    -0.7258428-01     0.117750          0.8487058-01
      39    -0.1041158-01     0.5977438-02      0.8473278-01
      40    -0.242551        -0.213775          0.8345028-01
      41    -0.214533        -0.7765508-01      0.8278248-01
      43    -0.194994        -0.1349158-01      0.6100188-01
      44    -0.194988         0.1870778-02      0.5176568-01
      45    -0.194956         0.4219108-01      0.2707078-01
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
 40416-2          VERSION=SUN4SPARC     15:55:17  OCT 11, 1995 CP=     115.400
 FOR SUPPORT CALL                    PHONE                    FAX

  Modal analysis of coupled system of presurizer spray line & building

  **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


  ***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION *****   FREQUENCY =    24.109
     LOAD STEP=      1  MODE =  28   CUM. ITER.=     28

  NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

    NODE        UX               UY               UZ               ROTX             ROTY             ROTZ
      46   -0.193956         0.328790         -0.190498
      47   -0.193887         0.320817         -0.195027
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     48   -0.193846          0.305222         -0.196590
     49   -0.191241          0.263526         -0.199368
     50   -0.192779          0.215968         -0.192726
     51   -0.192639          0.203351         -0.189387
     52   -0.192125          0.175045         -0.172331
     53   -0.189705          0.504929         -0.492596E-01
     54   -0.185921           1.43358         -0.675146E-01
     55   -0.185836           1.45054         -0.750760E-01
     56   -0.134986           1.19911         -0.121551
     57   -0.104215          0.994614         -0.121655
     58   -0.793207E-01      0.809250         -0.121744
     59   -0.456728E-01      0.528521         -0.121875
     60   -0.167435E-01      0.245592         -0.121992
     61    0.720082E-02     -0.368763E-01     -0.122108
     62    0.896773E-02     -0.605016E-01     -0.122117
     63    0.254142E-01     -0.451372         -0.112954
     64    0.255901E-01     -0.521655         -0.132677
     65    0.256691E-01     -0.500915         -0.145953
     66    0.259126E-01     -0.430698         -0.154050
     67    0.261188E-01     -0.339611         -0.157277
     68    0.262621E-01     -0.262540         -0.157774
     69    0.264190E-01     -0.175435         -0.157246
     70    0.265384E-01     -0.105810         -0.156537
     71    0.268026E-01      0.578870E-01     -0.154684
     72    0.274544E-01      0.228170         -0.153620
     73    0.303444E-01      0.898364         -0.146249
     74    0.306664E-01      0.948338         -0.145636
     75    0.313113E-01       1.02223         -0.133045
     76    0.319471E-01       1.06184         -0.880211E-01
     77    0.324576E-01       1.07103         -0.478099E-01
     78    0.322321E-01       1.07453          0.266151E-01
     79    0.321106E-01     -0.283660          0.164746
     80    0.320752E-01     -0.677535          0.903968E-01
     81    0.320659E-01     -0.770877          0.737073E-01
     82    0.481897E-01     -0.861593          0.547065E-01
     83    0.406232E-02     -0.107076          0.538012E-01
     84   -0.905849E-03     -0.748038E-01      0.537569E-01
     85   -0.418851E-02     -0.529170E-01      0.537249E-01
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
 40416-2          VERSION=SUN4SPARC     15:55:17  OCT 11, 1995 CP=     115.440
 FOR SUPPORT CALL                         PHONE                    FAX

  Modal analysis of coupled system of presurizer spray line & building

 **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


  ***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION *****   FREQUENCY =    24.109
     LOAD STEP=      1  MODE =  28   CUM. ITER.=     28

  NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

    NODE        UX              UY              UZ              ROTX            ROTY            ROTZ
      86   -0.255788E-02    0.230273E-02    0.189512E-01
      87   -0.219056E-03    0.641684E-04    0.962786E-04
      91   -0.190152        0.321100        -0.224326
      92   -0.226402        0.322136        -0.413794
      93   -0.219151        0.638510        -0.516906
      94   -0.190984        0.555515        -0.516838
      95   -0.133136        0.743812        -0.516724
      96   -0.505619E-01    0.930350        -0.516458
      97   -0.456250E-01    0.939575        -0.516444
      98    0.448487E-01     1.07034        -0.391491
     100    0.438601E-01     1.07048        -0.262119
     101    0.456016E-01     1.07056        -0.187881
     102    0.415212E-01     1.07083        -0.104858
     103   -0.455717E-01    0.558821        -0.119284
     104   -0.453139E-01    0.947484        -0.265366
     105   -0.452269E-01     1.01214        -0.302742
     106   -0.451259E-01    0.991817        -0.314059
     107   -0.447238E-01    0.513571        -0.182529
     109   -0.206449E-01    0.334108        -0.157881
     111    0.183063E-01   0.599944E-01      -0.157820
     112    0.240773E-01   -0.357914E-01     -0.157794
     113    0.718974         1.13123        -0.188626
     114     1.62171         1.11002        -0.189141
     115     2.84270         1.06628        -0.189608
     116     5.17854         1.04845        -0.190278
     118     5.70438         1.09245        -0.256214
     120    -10.7885         1.07856         -3.00352
     122    -7.33766        0.934951         -2.87731
     124    0.398173        0.613281         -2.87712
     125     19.3728        0.203223E-01     -2.87536
     127     23.7534        0.197172E-01     -2.83248
     129     21.1873        0.115827E-01    -0.185856
     130   -0.177113E-03    0.111204E-03     0.585548E-05
     131    0.541452E-01    -0.501226        0.916622E-01
     132    0.836924E-01    -0.501496        0.332446
     133    0.133049        0.579230E-01     0.724807E-04
     134    0.242185        0.579542E-01     0.155940
     304   -0.681469E-04    0.131457E-04     0.275024E-04
     306   -0.155780E-03    0.331065E-04     0.757025E-04
     308   -0.213053E-03    0.539017E-04     0.995248E-04
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
 40416-2          VERSION=SUN4SPARC     15:55:17  OCT 11, 1995 CP=     115.490
 FOR SUPPORT CALL                         PHONE                    FAX
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  Modal analysis of coupled system of presurizer spray line & building

 **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


  ***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION *****   FREQUENCY =    24.109
     LOAD STEP=      1  MODE =  28   CUM. ITER.=     28

  NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

    NODE        UX              UY              UZ              ROTX            ROTY            ROTZ
     310   -0.232933E-03    0.928613E-04    0.739870E-04
     313   -0.215454E-03    0.115658E-03   -0.737241E-05
    9001   -0.121373E-01    0.183465E-01    -0.188586
    9002   -0.109149E-01    0.371499E-01    -0.184725
    9003    0.854191E-01    0.166406E-02     0.105964
    9004    0.554012E-01    0.166314E-01     0.187756
    9005   -0.405676E-01    0.165272E-01    -0.970428E-01
    9006   -0.253894E-01    0.164477E-01    -0.692254E-01
    9007    0.411736E-01    0.155948E-01     0.116450
    9008    0.430327E-01    0.137401E-01     0.117543
    9009   -0.216966        0.403158E-01    -0.230740E-01
    9010   -0.226287        0.401941E-01    -0.165501E-01
    9011   -0.270340        0.395531E-01     0.896875E-02
    9012   -0.260994        0.392412E-01    -0.283170E-02
    9013    0.281637        0.383482E-01    -0.397283E-02
    9014    0.140160        0.378710E-01     0.747041E-02
    9015    0.581494E-01    0.361389E-01    -0.275557E-01
    9016    0.271265        0.354249E-01     0.492381E-02
    9017   -0.389150        0.951706E-01     0.855347E-01
    9018   -0.360158        0.189375         0.852449E-01
    9019   -0.783705E-01    -0.157835        0.841377E-01
    9020   -0.194531        0.286262        -0.119545
    9021    0.321838E-01    0.674366         0.276899
    9022    0.626966E-01    -0.523630        0.542708E-01
    9023    -2.81239         1.08600         -2.48176
    9024     8.56733        0.589619E-02     0.285941

 MAXIMUMS
 NODE          127              55              120              0               0               0
 VALUE       23.7534          1.45054         -3.00352           0.              0.              0.
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
 40416-2          VERSION=SUN4SPARC     15:55:17  OCT 11, 1995 CP=     115.520
 FOR SUPPORT CALL                         PHONE                    FAX

  Modal analysis of coupled system of presurizer spray line & building

 **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


  ***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION *****   FREQUENCY =    25.312
     LOAD STEP=      1  MODE =  29   CUM. ITER.=     29

  NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

    NODE        UX              UY              UZ              ROTX            ROTY            ROTZ
       1   -0.407491E-04   -0.117701E-04    0.301821E-03
       2    0.177524E-01   -0.302356E-01    0.187753E-01
       3    0.104348       -0.190471        0.284573
       4    0.102590       -0.191494         1.28500
       5    0.101678        0.517400E-01     1.85492
       6   -0.404422E-01    0.176640         1.74186
       7   -0.141846        0.176580         1.57048
       9   -0.107646        0.172498        -0.370994
      10    0.862593E-01     0.172173       -0.903611E-01
      11    -1.04134         0.166246        -1.07152
      12    -1.09049         0.165466        -1.44512
      13    -1.09242         0.164371        -1.39242
      14    -1.09234         0.163092        -1.26199
      15    -1.09211         0.170680       -0.982422
      16    -1.09113         0.269079       -0.419231
      17    -1.12010         0.320155       -0.344432
      18    -1.20672         0.480501       -0.256747
      19    -1.24214         0.600798       -0.219680
      20   -0.977955        -0.214409       -0.478817
      21   -0.520284        -0.552697       -0.395230
      22    0.450549        -0.541009       -0.880933
      23    0.551963        -0.539872        -1.38941
      24     2.24780        -0.537395        -1.88851
      25    -1.29482        -0.519003         1.99980
      26    -3.26950        -0.516973         1.78088
      27     4.83868        -0.491004       -0.818841
      28     5.53655        -0.487155       0.617869E-01
      29     3.82635        -0.481489         1.72539
      30   -0.113703        -0.444980        -3.47725
      31    0.116461        -0.444629        -3.54161
      32    0.848398        -0.385004        -3.69121
      35     1.38536        -0.282242        -3.73715
      37     2.23929        -0.242538        -3.73684
      38   -0.119817         -1.77660        -3.70106
      39    0.160869        -0.798662        -3.69507
      40     6.08671          5.78588        -3.63763
      41     1.58206          1.26109        -3.60736
      43    0.686140         0.353045        -2.68195
      44    0.685941         0.254984        -2.13053
      45    0.685358        0.1970996-01     -1.45373
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
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40416-2          VERSION=SUN4SPARC     15:55:17  OCT 11, 1995 CP=     115.560
FOR SUPPORT CALL                    PHONE                    FAX

 Modal analysis of coupled system of pressurizer spray line & building

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


 ***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION *****   FREQUENCY =    25.313
    LOAD STEP=      1  MODE =   29   CUM. ITER.=     29

 NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

   NODE       UX             UY             UZ             ROTX           ROTY           ROTZ
     46    0.674601       -0.573260       0.925878E-01
     47    0.673972       -0.501927       -0.582920E-01
     48    0.673483       -0.429600       -0.199566
     49    0.672654       -0.309880       -0.425365
     50    0.671607       -0.192453       -0.630513
     51    0.671289       -0.158519       -0.686847
     52    0.670112       -0.424058E-01   -0.868990
     53    0.664347        0.262199       -1.12481
     54    0.655013        0.275470       -0.833245E-02
     55    0.654797        0.273938        0.255309E-01
     56    0.483483        0.208290        0.196563
     57    0.390803        0.170177        0.196616
     58    0.319628        0.135449        0.196654
     59    0.226935        0.829386E-01    0.196710
     60    0.148786        0.306588E-01    0.196746
     61    0.822147E-01   -0.204242E-01    0.196779
     62    0.770714E-01   -0.246294E-01    0.196782
     63    0.136966E-01   -0.942658E-01    0.141023
     64    0.144883E-01   -0.125121        0.388737E-01
     65    0.148477E-01   -0.128197        0.131869E-01
     66    0.152591E-01   -0.117996       -0.123489E-02
     67    0.156081E-01   -0.999189E-01   -0.758554E-02
     68    0.158435E-01   -0.826175E-01   -0.102111E-01
     69    0.160365E-01   -0.619946E-01   -0.113082E-01
     70    0.161780E-01   -0.445263E-01   -0.109565E-01
     71    0.164916E-01   -0.805604E-03   -0.847222E-02
     72    0.169352E-01    0.487811E-01   -0.676760E-02
     73    0.189020E-01    0.295820       -0.550700E-01
     74    0.191213E-01    0.321316       -0.710366E-01
     75    0.195601E-01    0.368954       -0.107994
     76    0.199927E-01    0.411774       -0.146692
     77    0.201177E-01    0.432494       -0.164984
     78    0.202161E-01    0.459767       -0.190883
     79    0.204725E-01   -0.227615       -0.723774E-01
     80    0.205126E-01   -0.459205       -0.102599E-02
     81    0.205222E-01   -0.514129        0.147091E-01
     82    0.440866E-02   -0.572580        0.330881E-01
     83   -0.129933E-01   -0.684041E-01    0.335305E-01
     84   -0.114121E-01   -0.466673E-01    0.335484E-01
     85   -0.104728E-01   -0.321576E-01    0.335612E-01
1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC     15:55:17  OCT 11, 1995 CP=     115.600
FOR SUPPORT CALL                    PHONE                    FAX

 Modal analysis of coupled system of pressurizer spray line & building

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


 ***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION *****   FREQUENCY =    25.312
    LOAD STEP=      1  MODE =   29   CUM. ITER.=     29

 NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

   NODE       UX             UY             UZ             ROTX           ROTY           ROTZ
     86   -0.225505E-02    0.189511E-02    0.102600E-01
     87   -0.138152E-03   -0.591870E-04    0.960546E-03
     91    0.600187       -0.501833       -0.133256
     92    0.332626       -0.501387       -0.552172
     93    0.293068       -0.327361       -0.722668
     94    0.296284       -0.175237       -0.722959
     95    0.278721        0.551706E-01   -0.723390
     96    0.242203        0.274809       -0.723588
     97    0.240083        0.285465       -0.723597
     98    0.178254        0.432014       -0.586363
    100    0.127949        0.432185       -0.442105
    101    0.922805E-01    0.432294       -0.352327
    102    0.495933E-01    0.432404       -0.245011
    103    0.226565        0.753523E-01    0.143743
    104    0.225611        0.265328E-01    0.261667
    105    0.225283        0.554463E-02    0.299473
    106    0.224878       -0.157552E-01    0.306891
    107    0.223241       -0.712357E-01    0.508274E-01
    109    0.160700       -0.763455E-01   -0.101676E-01
    111    0.456674E-01   -0.818620E-01   -0.101931E-01
    112    0.262418E-01   -0.825106E-01   -0.102037E-01
    113    0.487837E-01    0.609636       -0.352979
    114    0.224421E-01    0.734822       -0.353415
    115    0.262726E-03    0.860751       -0.353752
    116   -0.231869E-01    1.07192        -0.354211
    118   -0.230540E-01    1.16808        -0.458774
    120   -0.163822        1.16144        -1.50160
    122   -0.111796        1.00687        -1.35611
    124    0.771178E-02    0.690617       -1.35593
    125    0.307503        0.640999E-01   -1.35481
    127    0.379994        0.124310E-01   -1.37787
    129    0.365181        0.729427E-02   -0.109071
    130   -0.216015E-03   -0.105174E-03   -0.115285E-03
    131    0.167323E-01   -0.126284        0.307205E-01
    132    0.189132E-01   -0.128361        0.489069E-01
    133    0.460302E-01   -0.806156E-03   -0.235622E-01
    134    0.765731E-01   -0.806614E-03   -0.391640E-01
    304   -0.406961E-04   -0.117418E-04    0.301780E-03
    306   -0.908298E-04   -0.288387E-04    0.804658E-03
    308   -0.113549E-03   -0.486860E-04    0.102712E-02
1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC     15:55:17  OCT 11, 1995 CP=     115.640
FOR SUPPORT CALL                    PHONE                    FAX

 Modal analysis of coupled system of pressurizer spray line & building

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


 ***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION *****   FREQUENCY =    25.312
    LOAD STEP=      1  MODE =   29   CUM. ITER.=     29

 NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

   NODE       UX             UY             UZ             ROTX           ROTY           ROTZ
    310   -0.210302E-03   -0.876037E-04    0.669993E-03
    313   -0.286242E-03   -0.110059E-03   -0.409207E-03
   9001    0.858982E-01    0.107959        1.89922
   9002    0.365768E-01    0.156436        1.85506
   9003   -1.90291         0.175466       -1.15973
   9004   -1.77066         0.174105       -1.90506
   9005    0.102055        0.170371        0.521586
   9006   -0.556927        0.168394       -6.511141E-02
   9007   -1.09275         0.165815       -1.48437
   9008   -1.09274         0.165597       -1.46514
   9009    4.31294        -0.548718        2.14721
   9010    3.85646        -0.545820        2.07887
   9011    6.79391        -0.531880       -0.960205
   9012    5.60666        -0.525746        1.17436
   9013   -6.51466        -0.508979       -0.300761
   9014   -1.72707        -0.500320       -1.94359
   9015   -3.80142        -0.469997        2.95626
   9016   -6.53045        -0.457819        0.147753
   9017    3.71041        -3.68047        -3.72898
   9018    1.85522        -6.07444        -3.71795
   9019    4.51565         5.44808        -3.66858
   9020    0.680268       -0.889840        1.22895
   9021    0.203530E-01    0.320359       -0.230285
   9022   -0.322555E-01   -0.359396        0.333207E-01
   9023   -0.621814E-01    1.16535        -1.96718
   9024    0.151129        0.359411E-02    0.149210

 MAXIMUMS
 NODE         9011            9018              35               0               0               0
 VALUE        6.79391        -6.07444          -3.73715          0.              0.              0.
1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC     15:55:17  OCT 11, 1995 CP=     115.680
FOR SUPPORT CALL                    PHONE                    FAX

 Modal analysis of coupled system of pressurizer spray line & building

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


 ***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION *****   FREQUENCY =    26.058
    LOAD STEP=      1  MODE =   30   CUM. ITER.=     30

 NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

   NODE       UX             UY             UZ             ROTX           ROTY           ROTZ
      1   -0.164016E-03    0.593305E-04    0.625499E-03
      2   -0.809726E-02    0.388642E-03   -0.594998E-02
      3   -0.269593E-01    0.259972E-01   -0.489207E-01
      4   -0.283276E-01    0.247190       -0.712146E-01
      5   -0.290077E-01    0.504814       -0.640174E-01
      6   -0.143000        0.608915       -0.411695E-01
      7   -0.220446        0.608862       -0.280490E-01
      9   -0.118035        0.602097        0.278818E-01
     10   -0.806073E-01    0.601379        0.221137E-01
     11   -0.650127        0.586533       -0.478166E-01
     12   -0.398217        0.584464       -0.180003
     13   -0.301461        0.487652       -0.264863
     14   -0.301377        0.426057       -0.286526
     15   -0.301177        0.339129       -0.335506
     16   -0.300579        0.508481       -0.472680
     17   -0.285425        0.616619       -0.507469
     18   -0.208067        0.921555       -0.584330
     19   -0.830820E-01    1.35455        -0.708540
     20    0.276388        1.90114        -1.06555
     21    0.294975        1.83431        -0.944358
     22    0.134473        1.82162        -0.741897
     23    0.778679E-01    1.81962        -1.25940
     24    0.186415        1.81474        -1.75371
     25   -0.523845E-01    1.77325         1.85371
     26   -0.278394        1.76829         1.64421
     27    0.497490        1.70089        -0.852340
     28    0.592150        1.69098         0.348030E-01
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    29    0.427182        1.67470         1.47088
    30   -0.158708        1.57005        -0.179002
    31   -0.139239        1.56902        -0.131782
    32   -0.605814E-01    1.48869         0.403661E-01
    35    0.270385E-01    1.24519         0.135761
    37    0.2341000       0.521024        0.134935
    38    0.248810E-01    3.30841         0.124213
    39    0.281296E-01    1.59428         0.122969
    40    1.16813        -5.76889         0.114318
    41    0.931602       -1.22624         0.110388
    43    0.889614       -0.275177        0.150451
    44    0.889543       -0.192753        0.166734
    45    0.889274        0.114524E-01    0.216861
1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC     15:55:17  OCT 11, 1995 CP=    115.730
FOR SUPPORT CALL                    PHONE                    FAX

 Modal analysis of coupled system of presurizer spray line & building

 **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


 ***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION *****   FREQUENCY =    26.058
    LOAD STEP=      1  MODE =  30   CUM. ITER =     30

 NOTE - ALL VECTOR DOFS ARE IN MODAL COORDINATE SYSTEMS.

  NODE      UX              UY              UZ              ROTX            ROTY            ROTZ
    46    0.882489        0.305845        1.28067
    47    0.882044        0.153422        1.26072
    48    0.880560        0.154893E-01    1.24075
    49    0.879155       -0.155735        1.21942
    50    0.877005       -0.295813        1.19614
    51    0.876361       -0.339055        1.18779
    52    0.873985       -0.533044        1.14824
    53    0.862711       -2.21054         0.777051
    54    0.864942       -3.39699         0.214298
    55    0.844540       -3.37461         0.215096
    56    0.820160       -1.61607         0.235557
    57    0.819767       -0.647582        0.235891
    58    0.840245        0.224602        0.236178
    59    0.892236        1.54061         0.236605
    60    0.962541        2.86670         0.236994
    61    1.04761         4.19615         0.237380
    62    1.05530         4.30779         0.237412
    63    1.18487         5.37743         0.374824
    64    1.18584         3.28240         0.768965
    65    1.18623         2.18264         0.898319
    66    1.18819         0.898935        0.970643
    67    1.18983        -0.144413        0.989966
    68    1.19094        -0.834301        0.981887
    69    1.19233        -1.47448         0.954485
    70    1.19329        -1.90968         0.920967
    71    1.19538        -2.66286         0.811635
    72    1.20007        -3.05798         0.662167
    73    1.22050        -1.38624         0.858993E-01
    74    1.22258        -0.981512        0.867410E-01
    75    1.22704        -0.122711        0.155620
    76    1.23098         0.747265        0.323158
    77    1.23351         1.16310         0.446165
    78    1.23336         1.74181         0.655152
    79    1.23717        -1.73689         0.630233
    80    1.23735        -3.55220         0.343223
    81    1.23736        -3.98617         0.285929
    82    1.27592        -4.42951         0.231143
    83    0.158394       -0.616129        0.227243
    84    0.126478       -0.441425        0.227050
    85    0.849828E-01   -0.322829        0.226911
1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC     15:55:17  OCT 11, 1995 CP=    115.770
FOR SUPPORT CALL                    PHONE                    FAX

 Modal analysis of coupled system of presurizer spray line & building

 **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


 ***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION *****   FREQUENCY =    26.058
    LOAD STEP=      1  MODE =  30   CUM. ITER =     30

 NOTE - ALL VECTOR DOFS ARE IN MODAL COORDINATE SYSTEMS.

  NODE      UX              UY              UZ              ROTX            ROTY            ROTZ
    86   -0.624035E-05   -0.592936E-03    0.814226E-01
    87   -0.441664E-03    0.276770E-03    0.181451E-02
    91    1.07219         0.152472        0.769219
    92    2.15913         0.148894       -0.787407
    93    3.90179         0.435972       -1.13345
    94    3.17614         0.602563       -1.13387
    95    3.61892         0.804411       -1.13449
    96    4.06618         0.985573       -1.13472
    97    4.08908         0.993078       -1.13473
    98    3.79150         1.16903        -0.923628
   100    2.98019         1.16726        -0.570867
   101    2.43496         1.16607        -0.293317
   102    1.75078         1.16443         0.103074
   103    0.894535        0.542699        0.383335
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   104    0.900150       -4.22358         0.954521
   105    0.901877       -5.42531         1.05295
   106    0.903260       -6.07707         1.06086
   107    0.908393       -5.51150         0.923331
   109    0.981692       -4.61256         0.982647
   111    1.16405        -2.88893         0.982218
   112    1.19447        -2.27987         0.982030
   113    3.75593         1.79861        -0.294805
   114    5.20455         2.28044        -0.295836
   115    6.84374         2.78173        -0.296780
   116    9.33741         3.61418        -0.298135
   118   10.4998          3.97613        -0.685258
   120    2.26464         3.95590        -4.52239
   122    1.06721         3.44221        -4.03984
   124    0.1041133       2.38417        -4.03925
   125   -2.25914         0.239536       -4.03570
   127   -2.40755         0.617472E-01   -4.14145
   129   -0.288430        0.248311E-01   -0.343878
   130   -0.2631155E-03   0.457232E-03   -0.687673E-03
   131    0.388314        2.14420        -0.456399
   132   -0.409632        2.14555        -1.93031
   133    0.793030       -2.66480        -0.307858
   134    0.400920       -2.66647        -1.44202
   304   -0.1639972E-03   0.593382E 04    0.625498E-03
   306   -0.356689E-03    0.149132E-03    0.164681E-02
   308   -0.445947E-03    0.236481E-03    0.201304E-02
1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC     15:55:17  OCT 11, 1995 CP=    115.820
FOR SUPPORT CALL                    PHONE                    FAX

 Modal analysis of coupled system of presurizer spray line & building

 **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


 ***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION *****   FREQUENCY =    26.058
    LOAD STEP=      1  MODE =  30   CUM. ITER.=     30

 NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

  NODE      UX              UY              UZ              ROTX            ROTY            ROTZ
   310   -0.425687E-03    0.390813E-03    0.977713E-03
   313   -0.317690E-03    0.479129E-03   -0.171643E-02
  9001   -0.424590E-01    0.553317       -0.602075E-01
  9002   -0.826401E-01    0.592983       -0.519857E-01
  9003    -1.42248        0.607514        0.164258
  9004    -1.16300        0.605258        0.156288
  9005   -0.516244        0.597073        0.106206
  9006   -0.960470        0.592121        0.148570
  9007   -0.350043        0.571037       -0.210709
  9008   -0.314261        0.534959       -0.242103
  9009    0.772299        1.83333         1.78622
  9010    0.822592        1.82910         2.01342
  9011    0.696787        1.80313        -0.946102
  9012    0.667492        1.78929         1.06557
  9013   -0.727414        1.74824        -0.337405
  9014   -0.246769        1.72576        -1.85282
  9015   -0.401396        1.64233         2.54236
  9016   -0.738932        1.60742         0.685994
  9017    0.707349        2.46099         0.131512
  9018    0.464833        5.35077         0.127937
  9019    0.704576       -4.72023         0.118731
  9020    0.886280        0.905041        0.932327
  9021    1.23563         3.19266         1.23594
  9022    0.960296       -2.82088         0.229277
  9023    10.9143         3.96814        -5.97177
  9024    0.170150E-01    0.126430E-01    0.456819

 MAXIMUM
 NODE        9023            106             9023            0               0               0
 VALUE       10.9143        -6.07707        -5.97177          0.              0.              0.
1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC     15:55:17  OCT 11, 1995 CP=    115.850
FOR SUPPORT CALL                    PHONE                    FAX

 Modal analysis of coupled system of presurizer spray line & building

 **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


 ***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION *****   FREQUENCY =    26.291
    LOAD STEP=      1  MODE =  31   CUM. ITER.=     31

 NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

  NODE      UX              UY              UZ              ROTX            ROTY            ROTZ
     1    0.412636E-05   -0.353435E-05    0.185839E-01
     2   -0.888009E-03    0.148232E-02    0.176420E-01
     3   -0.594047E-02    0.720568E-02    0.157884E-02
     4   -0.579001E-02   -0.781703E-02   -0.650044E-01
     5   -0.571257E-02   -0.340809E-01   -0.104142
     6    0.714066E-02   -0.456456E-01   -0.999942E-01
     7    0.160469E-01   -0.456398E-01   -0.905221E-01
     9    0.127759E-01   -0.450442E-01    0.682769E-01
    10    0.603125E-02   -0.449849E-01    0.657358E-01
    11    0.859117E-01   -0.437958E-01    0.539547E-01
    12    0.681496E-01   -0.433206E-01    0.235597E-01
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     13     0.614020E-01    -0.370008E-01     0.759679E-02
     14     0.613912E-01    -0.330746E-01     0.386431E-02
     15     0.613643E-01    -0.286226E-01    -0.629419E-02
     16     0.612742E-01    -0.485526E-01    -0.156351E-01
     17     0.604500E-01    -0.565487E-01    -0.141307E-01
     18     0.530177E-01    -0.747887E-01    -0.677705E-02
     19     0.352350E-01    -0.101179         0.108900E-01
     20    -0.356963E-01    -0.118630         0.814901E-01
     21    -0.520124E-01    -0.104827         0.768377E-01
     22    -0.127335E-01    -0.104375         0.745176E-01
     23    -0.232044E-01    -0.104279         0.115807
     24    -0.104412        -0.104034         0.153878
     25     0.888054E-01    -0.101854        -0.157854
     26     0.169420        -0.101587        -0.133797
     27    -0.233439        -0.979063E-01     0.932065E-01
     28    -0.239206        -0.973594E-01     0.332552E-01
     29    -0.125834        -0.964564E-01    -0.441568E-01
     30    -0.157689        -0.906073E-01    -0.236001E-01
     31    -0.170853        -0.905495E-01    -0.270463E-01
     32    -0.198852        -0.853861E-01    -0.384328E-01
     35    -0.196107        -0.707529E-01    -0.442422E-01
     37    -0.139874        -0.299468E-01    -0.441975E-01
     38     0.608298E-01    -0.196847        -0.432727E-01
     39     0.441068E-03    -0.882543E-01    -0.431466E-01
     40    -0.155071         0.346754        -0.420900E-01
     41    -0.636748E-01     0.571146E-01    -0.415652E-01
     43    -0.579471E-01     0.153970E-01    -0.453658E-01
     44    -0.579344E-01     0.167139E-01    -0.459360E-01
     45    -0.578855E-01     0.208129E-01    -0.469083E-01
1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC     15:55:17  OCT 11, 1995 CP=     115.890
FOR SUPPORT CALL                  PHONE                    FAX

 Modal analysis of coupled system of presurizer spray line & building

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


 ***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION *****   FREQUENCY =    26.291
    LOAD STEP=     1  MODE =  31   CUM. ITER.=     31

 NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

   NODE      UX              UY              UZ              ROTX            ROTY            ROTZ
     46    -0.571298E-01    0.581075E-01    -0.640773E-01
     47    -0.570837E-01    0.562115E-01    -0.641251E-01
     48    -0.570217E-01    0.530829E-01    -0.643871E-01
     49    -0.569171E-01    0.450541E-01    -0.647646E-01
     50    -0.567924E-01    0.352020E-01    -0.643084E-01
     51    -0.567547E-01    0.322676E-01    -0.639600E-01
     52    -0.566153E-01    0.231341E-01    -0.619357E-01
     53    -0.559484E-01    0.307328E-01    -0.408496E-01
     54    -0.548893E-01    0.683877E-01    -0.377266E-01
     55    -0.548652E-01    0.683164E-01    -0.381222E-01
     56    -0.450712E-01    0.320418E-01    -0.479969E-01
     57    -0.394014E-01    0.114316E-01    -0.480180E-01
     58    -0.352597E-01   -0.700631E-02    -0.480347E-01
     59    -0.300922E-01   -0.346541E-01    -0.480592E-01
     60    -0.259578E-01   -0.623645E-01    -0.480773E-01
     61    -0.227564E-01   -0.900476E-01    -0.480949E-01
     62    -0.225290E-01   -0.923694E-01    -0.480963E-01
     63    -0.206576E-01   -0.113745        -0.472732E-01
     64    -0.206611E-01   -0.665217E-01    -0.514748E-01
     65    -0.206618E-01   -0.412825E-01    -0.540936E-01
     66    -0.206811E-01   -0.142190E-01    -0.561485E-01
     67    -0.206970E-01    0.821389E-02    -0.571566E-01
     68    -0.207087E-01    0.228755E-01    -0.573369E-01
     69    -0.207244E-01    0.363132E-01    -0.569651E-01
     70    -0.207349E-01    0.451915E-01    -0.563225E-01
     71    -0.207578E-01    0.604106E-01    -0.538624E-01
     72    -0.208236E-01    0.674541E-01    -0.498328E-01
     73    -0.211090E-01    0.273674E-01    -0.191732E-01
     74    -0.211392E-01    0.189181E-01    -0.149414E-01
     75    -0.211992E-01    0.168253E-02    -0.658771E-02
     76    -0.212519E-01   -0.146749E-01     0.972077E-03
     77    -0.212622E-01   -0.220053E-01     0.416359E-02
     78    -0.212883E-01   -0.316978E-01     0.906527E-02
     79    -0.213993E-01    0.408668E-01     0.565489E-01
     80    -0.214107E-01    0.740725E-01     0.550948E-01
     81    -0.214131E-01    0.819565E-01     0.544608E-01
     82    -0.205772E-01    0.897752E-01     0.535634E-01
     83    -0.488659E-02    0.954201E-02     0.533611E-01
     84    -0.365975E-02    0.647156E-02     0.533482E-01
     85    -0.275181E-02    0.447278E-02     0.533387E-01
1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC     15:55:17  OCT 11, 1995 CP=     115.930
FOR SUPPORT CALL                  PHONE                    FAX

 Modal analysis of coupled system of presurizer spray line & building

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


 ***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION *****   FREQUENCY =    26.291
    LOAD STEP=     1  MODE =  31   CUM. ITER.=     31

 NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.
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   NODE      UX              UY              UZ              ROTX            ROTY            ROTZ
     86     0.492655E-04    -0.357585E-04     0.535903E-01
     87     0.102097E-04    -0.163178E-04     0.527720E-01
     91    -0.556988E-01     0.562457E-01    -0.382339E-01
     92    -0.597076E-01     0.563690E-01     0.455870E-01
     93    -0.653378E-01     0.369220E-01     0.374089E-01
     94    -0.668703E-01     0.235744E-01     0.674336E-01
     95    -0.688504E-01     0.582769E-02     0.674799E-01
     96    -0.699126E-01    -0.993280E-02     0.674827E-01
     97    -0.659456E-01    -0.107014E-01     0.674833E-01
     98    -0.609036E-01    -0.221515E-01     0.557531E-01
    100    -0.488469E-01    -0.221069E-01     0.405735E-01
    101    -0.405028E-01    -0.220770E-01     0.298890E-01
    102    -0.297611E-01    -0.220373E-01     0.157981E-01
    103    -0.301519E-01    -0.172946E-01    -0.555333E-01
    104    -0.302966E-01     0.987706E-01    -0.120931
    105    -0.303404E-01     0.126791        -0.132406
    106    -0.303730E-01     0.141742        -0.130698
    107    -0.304859E-01     0.125486        -0.635961E-01
    109    -0.253350E-01     0.105020        -0.574083E-01
    111    -0.209071E-01     0.872040E-01    -0.573675E-01
    112    -0.207154E-01     0.539896E-01    -0.573500E-01
    113    -0.452433E-01    -0.442564E-01     0.299609E-01
    114    -0.539646E-01    -0.600831E-01     0.300025E-01
    115    -0.548831E-01    -0.760082E-01     0.300349E-01
    116    -0.825730E-01    -0.101607         0.300792E-01
    118    -0.925649E-01    -0.112498         0.416755E-01
    120    -0.989604E-02    -0.111885         0.135776
    122    -0.220524E-02    -0.964447E-01     0.121112
    124    -0.167454E-02    -0.654241E-01     0.121091
    125    -0.126673E-02    -0.503743E-02     0.120977
    127    -0.540781E-02    -0.124125E-02     0.122510
    129    -0.262498E-01    -0.743510E-03    -0.118609E-01
    130    0.863315E-05     -0.263054E-04    -0.219013E-01
    131    -0.128553E-02    -0.413130E-01    -0.257510E-01
    132    0.141622E-01     -0.413394E-01     0.258638E-02
    133    -0.130587E-01     0.604554E-01    -0.291792E-01
    134    -0.551996E-02     0.604941E-01    -0.465215E-02
    304    0.412177E-05     -0.353597E-05     0.185839E-01
    306    0.865234E-05     -0.891010E-05     0.487223E-01
    308    0.975196E-05     -0.140153E-04     0.590677E-01
1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC     15:55:17  OCT 11, 1995 CP=     115.980
FOR SUPPORT CALL                  PHONE                    FAX

 Modal analysis of coupled system of presurizer spray line & building

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


 ***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION *****   FREQUENCY =    26.291
    LOAD STEP=     1  MODE =  31   CUM. ITER.=     31

 NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

   NODE      UX              UY              UZ              ROTX            ROTY            ROTZ
    310     0.113986E-04    -0.226977E-04     0.273069E-01
    313     0.110083E-04    -0.275970E-04    -0.543585E-01
   9001    -0.423121E-02    -0.393989E-01    -0.107649
   9002     0.271774E-03    -0.438369E-01    -0.106193
   9003     0.160930        -0.455105E-01     0.625170E-01
   9004     0.138494        -0.453118E-01     0.114583
   9005     0.448306E-01    -0.446341E-01     0.110476
   9006     0.990748E-01    -0.442342E-01     0.124888
   9007     0.647526E-01    -0.426731E-01     0.178328E-01
   9008     0.622692E-01    -0.401736E-01     0.120756E-01
   9009    -0.177288        -0.104865        -0.161322
   9010    -0.135271        -0.104715        -0.169043
   9011    -0.296466        -0.103436         0.681764E-01
   9012    -0.220019        -0.102709        -0.107060
   9013     0.270421        -0.100501         0.516055E-01
   9014     0.236431E-01    -0.991159E-01     0.176674
   9015     0.225675        -0.946542E-01    -0.923932E-01
   9016     0.251641        -0.927051E-01    -0.228126E-01
   9017     0.835558E-01    -0.160879        -0.439409E-01
   9018     0.174692        -0.335591        -0.436325E-01
   9019    -0.163822         0.298577        -0.426462E-01
   9020    -0.575390E-01     0.535772E-01    -0.602752E-01
   9021    -0.213536E-01    -0.338482E-01     0.434687E-01
   9022    -0.151259E-01     0.543172E-01     0.534820E-01
   9023    -0.977399E-01    -0.112253         0.192520
   9024    -0.124026E-01    -0.384489E-03    -0.392657E-01

MAXIMUMS
NODE         9011            40              9023            0               0               0
VALUE     -0.296466       0.346754        0.192520            0.              0.              0.
1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC     15:55:17  OCT 11, 1995 CP=     116.010
FOR SUPPORT CALL                  PHONE                    FAX

 Modal analysis of coupled system of presurizer spray line & building

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


 ***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION *****   FREQUENCY =    26.454
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     LOAD STEP=     1  MODE =  32   CUM. ITER.=    32

 NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

   NODE        UX              UY              UZ              ROTX            ROTY            ROTZ
     1  -0.135290E-03   -0.596809E-04   -0.492178E-03
     2   0.824723E-02    0.280577E-02    0.730963E-02
     3   0.224747E-01   -0.151077E-01    0.295833E-01
     4   0.245658E-01   -0.320137       -0.622006E-01
     5   0.256106E-01   -0.700914       -0.153269
     6   0.197819       -0.857642       -0.148698
     7   0.315329       -0.857561       -0.146973
     9   0.125402       -0.847565        0.5511822E-02
    10   0.148563       -0.846512       -0.166657E-01
    11    1.06616       -0.824820        0.919654E-01
    12   0.685925       -0.821801        0.255614
    13   0.548639       -0.687874        0.400553
    14   0.548482       -0.607934        0.460501
    15   0.548110       -0.511018        0.594379
    16   0.546994       -0.864428        0.941412
    17   0.512853        -1.02802         1.02081
    18   0.346505        -1.44839         1.18625
    19   0.923206E-01    -2.01920         1.43902
    20  -0.572807       -2.45178         1.09960
    21  -0.608790       -2.26414         1.79659
    22  -0.199879       -2.25002         1.83143
    23  -0.157686       -2.24762         2.71711
    24  -0.500848       -2.24168         3.45190
    25   0.330062       -2.19056        -3.47010
    26   0.808806       -2.18440        -2.84331
    27   -1.24506       -2.10039         1.57004
    28   -1.34466       -2.08800        0.681886E-01
    29  -0.801118       -2.06762        -1.83711
    30  -0.944482       -1.93630         0.743258
    31   -1.02378       -1.93501         0.676920
    32   -1.18613       -1.82985         0.448060
    35   -1.15049       -1.52456         0.327317
    37  -0.744067       -0.669616        0.327948
    38   0.167057        -4.23652        0.332114
    39   0.119807E-01    -1.80738        0.332349
    40  -0.251676         7.46120        0.332102
    41   0.684241        0.884192        0.331453
    43   0.808352        0.358634        0.208799
    44   0.808357        0.550243        0.163415
    45   0.808295         1.08208        0.471918E-01
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
 40416-2            VERSION=SUN4SPARC     15:55:17  OCT 11, 1995 CP=    116.050
 FOR SUPPORT CALL                  PHONE                    FAX

  Modal analysis of coupled system of pressurizer spray line & building

 **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


  ***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION *****   FREQUENCY =   26.454
     LOAD STEP=     1  MODE =  32   CUM. ITER.=    32

  NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

   NODE        UX              UY              UZ              ROTX            ROTY            ROTZ
     46   0.804784         4.04735        -1.20847
     47   0.804517         3.67617        -1.28163
     48   0.804050         3.25072        -1.38592
     49   0.803255         2.46984        -1.54504
     50   0.802175         1.62926        -1.68249
     51   0.801846         1.37576        -1.71757
     52   0.800625        0.481948        -1.81543
     53   0.794490        -1.99357        -1.58129
     54   0.784357        -1.82067       -0.416620E-01
     55   0.784116        -1.78801       -0.143021E-01
     56   0.692286       -0.941591        0.964732E-01
     57   0.667583       -0.512062        0.965425E-01
     58   0.667516       -0.119828        0.965996E-01
     59   0.691054        0.478554        0.966847E-01
     60   0.734102         1.08549        0.967650E-01
     61   0.789667         1.69412        0.968442E-01
     62   0.794663         1.74511        0.968507E-01
     63   0.870720         2.29428        0.168835
     64   0.872951         1.61050        0.313276
     65   0.873924         1.19917        0.343933
     66   0.876728        0.713607        0.347934
     67   0.879088        0.288617        0.334409
     68   0.880676       -0.271835E-02    0.317513
     69   0.882497       -0.281689        0.294416
     70   0.883752       -0.475940        0.273092
     71   0.886844       -0.844707        0.217202
     72   0.891596        -1.07745        0.155510
     73   0.913301       -0.441521        0.146570
     74   0.915655       -0.224645        0.205826
     75   0.920354        0.282187        0.369750
     76   0.924728        0.674482        0.587994
     77   0.927495         1.19522        0.714928
     78   0.927244         1.67637        0.915851
     79   0.929850        -1.06055        0.654226
     80   0.929919        -2.58049        0.298436
     81   0.929916        -2.94573        0.224721
     82   0.989257        -3.25887        0.148348
     83   0.143548       -0.393506        0.144368
     84   0.907470E-01   -0.277463        0.144177
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     85   0.555449E-01   -0.198275        0.144039
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
 40416-2            VERSION=SUN4SPARC     15:55:17  OCT 11, 1995 CP=    116.090
 FOR SUPPORT CALL                  PHONE                    FAX

  Modal analysis of coupled system of pressurizer spray line & building

 **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


  ***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION *****   FREQUENCY =   26.454
     LOAD STEP=     1  MODE =  32   CUM. ITER.=    32

  NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

   NODE        UX              UY              UZ              ROTX            ROTY            ROTZ
     86  -0.602228E-02    0.525234E-02    0.532700E-01
     87  -0.405476E-03   -0.273509E-03   -0.137189E-02
     91     1.21709          3.67670        -0.769770
     92     2.90918          3.67832         1.20913
     93     3.62912          3.12398         1.79856
     94     3.72320          2.70076         1.79931
     95     3.86444          2.10361         1.80043
     96     4.00358          1.56132         1.80091
     97     4.01132          1.53565         1.80094
     98     3.43700          1.19633         1.49368
    100     2.57806          1.19594         1.19821
    101     2.02779          1.19567         1.02641
    102     1.37889          1.19543        0.839228
    103    0.692524        0.997462E-01     0.135610
    104    0.696095         -1.49718        0.201333
    105    0.697179         -1.86513        0.201367
    106    0.698005         -2.03401        0.190103
    107    0.700883         -1.65543        0.260055
    109    0.759219         -1.32538        0.337740
    111    0.878536        -0.712404        0.317612
    112    0.894103        -0.500398        0.317556
    113     1.12311         0.820866         1.02710
    114     4.56110         0.517415         1.02750
    115     5.77660         0.204887         1.02760
    116     7.94814        -0.212679         1.02762
    118     8.99196        -0.325651         1.12507
    120     1.79941        -0.332146        -0.951904
    122    0.804263        -0.268171        -1.02677
    124    0.106475        -0.189082        -1.02689
    125    -1.59250       -0.434932E-01     -1.02662
    127    -1.62399        0.511428E-02     -0.970358
    129    0.270156         0.2841655-02    -0.459561E-01
    130  -0.235035E-03     -0.431626E-03     0.579313E-03
    131    0.562862          1.20006        -0.181935
    132    0.258915          1.20084        -0.719578
    133    0.670475        -0.845539        -0.114240
    134    0.664117        -0.845887        -0.450544
    304  -0.135356E-03     -0.596946E-04    -0.492172E-03
    306  -0.304717E-03     -0.150032E-03    -0.128627E-02
    308  -0.409731E-03     -0.235265E-03    -0.154707E-02
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
 40416-2            VERSION=SUN4SPARC     15:55:17  OCT 11, 1995 CP=    116.130
 FOR SUPPORT CALL                  PHONE                    FAX

  Modal analysis of coupled system of pressurizer spray line & building

 **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


  ***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION *****   FREQUENCY =   26.454
     LOAD STEP=     1  MODE =  32   CUM. ITER.=    32

  NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

   NODE        UX              UY              UZ              ROTX            ROTY            ROTZ
    310  -0.389670E-03   -0.375503E-03   -0.696645E-03
    313  -0.285529E-03   -0.453270E-03    0.144622E-02
   9001   0.458245E-01    -0.773721       -0.142280
   9002     0.106443       -0.833537       -0.147800
   9003      2.14957       -0.855546       -0.961389E-01
   9004      1.74923       -0.852212        0.188618E-02
   9005     0.906452       -0.840213       -0.188738
   9006      1.59288       -0.832978       -0.204485
   9007     0.616392       -0.802516        0.297727
   9008     0.566122       -0.751968        0.350811
   9009     -1.40433         -2.26357       -3.65665
   9010     -1.35631         -2.25886       -3.65603
   9011     -1.61419         -2.22746        1.28103
   9012     -1.35743         -2.21041       -2.62772
   9013      1.56752         -2.15947        1.44433
   9014     0.295929         -2.13146        3.93820
   9015      1.12071         -2.02705       -2.55003
   9016      1.36758         -1.98324       0.568289E-01
   9017     0.752470         -3.67467        0.329731
   9018      1.20483          -7.46658       0.331120
   9019    -0.672344          6.66160        0.332445
   9020     0.806914          4.56662       -0.626728
   9021     0.928980          2.14854         1.41823
   9022     0.799592         -1.90059        0.146413
   9023      9.54094        -0.329080        0.690891
   9024     0.237469         0.120476E-02     0.194528E-01
```

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 MAXIMUMS
 NODE          9023            9018            9014               0               0               0
 VALUE         9.54094        -7.46658         3.93820            0.              0.              0.
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
 40416-2          VERSION=SUN4SPARC      15:55:17  OCT 11, 1995 CP=     116.170
 FOR SUPPORT CALL                    PHONE                    FAX

  Modal analysis of coupled system of presurizer spray line & building

 **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


  ***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION *****   FREQUENCY =   26.882
     LOAD STEP=      1  MODE =  33   CUM. ITER.=     33

  NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

    NODE        UX              UY              UZ              ROTX            ROTY            ROTZ
       1    0.7031499E-04   0.3009010E-04   0.2523078E-03
       2    0.2091508E-02  -0.2673268E-02   0.1862198E-02
       3   -0.3990978E-03  -0.5289098E-01  -0.1553668E-01
       4    0.8879498E-03  -0.3597438       -0.1211501
       5    0.1550298E-02  -0.6176298       -0.1415478
       6    0.117023       -0.7241168       -0.1430478
       7    0.194491       -0.7240598       -0.1478768
       8    0.134497       -0.7160258        0.3307488E-02
       9    0.137633       -0.7151468       -0.2076528E-01
      10    0.529648       -0.6968068       -0.8196738
      11    0.1648178      -0.6942398       -1.016498
      12    0.3184048E-01  -0.5639538       -0.6836688
      13    0.3174608E-01  -0.4826638       -0.3619208
      14    0.3153828E-01  -0.3688228        0.3377288
      15    0.3104008E-01  -0.6127388        1.880828
      16   -0.7842328E-01  -0.6456528        2.147058
      17   -0.5263088      -0.5150918        2.594788
      18    -1.06299       -0.3323908        3.131058
      19    -2.00302        0.8195188        4.068868
      20    -1.62460        0.8827578        3.277968
      21    0.136520        0.8670238        3.949758
      22    0.448229        0.8653508        5.086448
      23     2.18122        0.8616088        5.478358
      24    -2.18475        0.8328548       -4.869098
      25    -3.70159        0.8296098       -3.434138
      26     4.83858        0.7874228        2.139438
      27     4.63314        0.7814198        0.4569878
      28     1.93084        0.7717088       -0.1289178
      29     5.13798        0.7107218        2.513978
      30     5.43197        0.7101328        2.515168
      31     5.90731        0.6898838        2.549068
      32     5.48606        0.6017148        2.581008
      33     3.11188        0.2904768        2.579208
      34    -1.71903        1.397728         2.533408
      35   -0.1406168       0.5669688        2.526838
      36   -0.2340948      -2.524218         2.469748
      37   -0.1533028-01   -0.3857948        2.440858
      38    0.3603528      -0.1037738        1.599788
      39    0.3601938      -0.1103968        1.809248
      40    0.3597388      -0.1263108        1.317738
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
 40416-2          VERSION=SUN4SPARC      15:55:18  OCT 11, 1995 CP=     116.210
 FOR SUPPORT CALL                    PHONE                    FAX

  Modal analysis of coupled system of presurizer spray line & building

 **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


  ***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION *****   FREQUENCY =   26.882
     LOAD STEP=      1  MODE =  33   CUM. ITER.=     33

  NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

    NODE        UX              UY              UZ              ROTX            ROTY            ROTZ
      46    0.351725       -0.1325778E-02   0.344909
      47    0.351266        0.6616628-02    0.421906
      48    0.3508C0        0.1222148-01    0.492515
      49    0.350017        0.1815408-01    0.593245
      50    0.349104        0.2209108-01    0.666221
      51    0.348829        0.2329658-01    0.682413
      52    0.347811        0.2954268-01    0.718778
      53    0.342984        0.102618        0.515768
      54    0.335383        0.154908        0.6521298-01
      55    0.335211        0.153695        0.6884958-01
      56    0.276388        0.7304758-01    0.112027
      57    0.232780        0.2760828-01    0.112052
      58    0.196345       -0.1403488-01    0.112070
      59    0.143612       -0.7813828-01    0.112095
      60    0.9357018-31   -0.144276        0.112107
      61    0.463364E-01   -0.211970        0.112119
      62    0.4250898-01   -0.217715        0.112119
      63   -0.8474708-02   -0.276639        0.6570948-01
      64   -0.8618618-02   -0.177235       -0.2827578-01
      65   -0.8683638-02   -0.122513       -0.5525408-01
      66   -0.8683548-02   -0.6078708-01   -0.7295958-01
      67   -0.8683268-02   -0.7285818-02   -0.8184028-01
      68   -0.8696878-02    0.2875368-01   -0.8528768-01
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      69   -0.8734148-02    0.6283898-01   -0.8610748-01
      70   -0.8764688-02    0.8604518-01   -0.8475898-01
      71   -0.8832218-02    0.128398       -0.7664038-01
      72   -0.8872158-02    0.154159       -0.6297478-01
      73   -0.9046528-02    0.125121        0.3820988E-01
      74   -0.9065258-02    0.113189        0.5132138-01
      75   -0.9102608-02    0.8802558-01    0.7414308-01
      76   -0.9136638-02    0.6393078-01    0.8696488-01
      77   -0.9149328-02    0.5355498-01    0.8788098-01
      78   -0.9148698-02    0.4054938-01    0.8527788-01
      79   -0.9226798-02    0.5109208-01    0.1754788-01
      80   -0.9237268-02    0.6819978-01    0.1430798-02
      81   -0.9239658-02    0.7219398-01   -0.2060158-02
      82   -0.5659618-02    0.8216918-01   -0.6131368-02
      83    0.6798688-04    0.1683458-01   -0.6207358-02
      84   -0.2136238-03    0.1241998-01   -0.6210358-02
      85   -0.3811248-03    0.9446338-02   -0.6217478-02
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
 40416-2          VERSION=SUN4SPARC      15:55:18  OCT 11, 1995 CP=     116.250
 FOR SUPPORT CALL                    PHONE                    FAX

  Modal analysis of coupled system of presurizer spray line & building

 **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


  ***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION *****   FREQUENCY =   26.882
     LOAD STEP=      1  MODE =  33   CUM. ITER.=     33

  NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

    NODE        UX              UY              UZ              ROTX            ROTY            ROTZ
      86   -0.2974988-03    0.6036178-03   -0.1337258-02
      87    0.1161318-03    0.1521438-03    0.6657068-03
      91    0.346265        0.5693668-02    0.389646
      92    0.316086        0.6982168-02    0.298226
      93    0.232450        0.2867248-01    0.275272
      94    0.171475        0.4397988-01    0.275318
      95    0.8267118-01    0.6057128-01    0.275384
      96    0.999657E-03    0.6523788-01    0.275349
      97   -0.2885788-02    0.6509828-01    0.275347
      98   -0.4817138-01    0.5319298-01    0.255854
     100   -0.3867968-01    0.5328298-01    0.213812
     101   -0.3120088-01    0.5334228-01    0.178866
     102   -0.1966828-01    0.5346068-01    0.129422
     103    0.143348       -0.3643548-02    0.7930548-01
     104    0.142666        0.380430        0.136824
     105    0.142431        0.470280        0.152982
     106    0.142142        0.508422        0.150202
     107    0.140873        0.366902       -0.4173278-01
     109    0.962976E-01    0.289303       -0.8527818-01
     111    0.1378478-01    0.167349       -0.8528498-01
     112   -0.3783488-03    0.125568       -0.8528718-01
     113   -0.9851378-01   -0.1937748-01    0.179098
     114   -0.165725       -0.120323        0.179247
     115   -0.240201       -0.207797        0.179340
     116   -0.352215       -0.341208        0.179456
     118   -0.399592       -0.388875        0.226706
     120   -0.9841038-01   -0.388450        0.186909
     122   -0.4972308-01   -0.335035        0.134243
     124   -0.3094348-02   -0.233682        0.134175
     125    0.113337       -0.2819408-01    0.133937
     127    0.126297       -0.2156428-02    0.153791
     129    0.5041728-01   -0.1181858-02    0.1889728-01
     130   -0.1100618-03    0.2654698-03   -0.5626988-03
     131    0.2910338-01   -0.122608        0.2771068-01
     132    0.6774388-01   -0.122690        0.111912
     133    0.1316238-01    0.128497        0.3869458-02
     134    0.3599258-01    0.128583        0.8517198-01
     304    0.7027428-04    0.3006588-04    0.2523188-03
     306    0.1399418-03    0.7526968-04    0.6499148-03
     308    0.1509168-03    0.1259248-03    0.7666818-03
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
 40416-2          VERSION=SUN4SPARC      15:55:18  OCT 11, 1995 CP=     116.290
 FOR SUPPORT CALL                    PHONE                    FAX

  Modal analysis of coupled system of presurizer spray line & building

 **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


  ***** REDUCED EIGENVECTOR (MODE SHAPE) SOLUTION *****   FREQUENCY =   26.882
     LOAD STEP=      1  MODE =  33   CUM. ITER.=     33

  NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

    NODE        UX              UY              UZ              ROTX            ROTY            ROTZ
     310    0.5682158-05    0.2214928E-03    0.2419298E-03
     313   -0.1766438-03    0.2792308-03   -0.1301618-02
    9001    0.1538358-01   -0.667564        -0.140679
    9002    0.5624498-01   -0.708048        -0.140641
    9003     1.56156       -0.722529        -0.181597
    9004     1.07151       -0.719849        -0.5935298-01
    9005    0.758126       -0.709845        -0.294896
    9006     1.14506       -0.703728        -0.558009
    9007    0.9743258-01   -0.675809         -1.00588
    9008    0.4894208-01   -0.627024        -0.887038
```

9009	2.46460	0.879168	-6.13584
9010	1.99830	0.873920	-4.90590
9011	5.90215	0.853137	0.472363
9012	4.03272	0.843546	-5.52507
9013	-5.10316	0.816746	4.21257
9014	0.194847	0.802678	6.79926
9015	-5.11982	0.752603	2.19226
9016	-4.41178	0.732260	3.40089
9017	-4.97534	1.25702	2.56709
9018	-6.55001	2.52511	2.55181
9019	1.36127	-2.29128	2.50000
9020	0.355901	-0.114630	-0.195579
9021	-0.919218E-02	0.139670E-01	0.605254E-01
9022	0.316240E-02	0.693131E-01	-0.517172E-02
9023	-0.413657	-0.388884	0.555281
9024	0.163059E-01	-0.458067E-03	-0.213172E-01

MAXIMUMS

NODE	9018	9018	9014	0	0	0
VALUE	-6.55001	2.52511	6.79926	0.	0.	0.

***** REDUCED MASS DISTRIBUTION *****

ROW	NODE	DIR	VALUE
1	17	UZ	0.20337E-03
2	306	UX	137.54
3	306	UY	137.54
4	304	UZ	138.94
5	304	UY	138.94
6	304	UX	138.94
7	306	UZ	137.54
8	44	UY	0.88443E-03
9	84	UY	0.82322E-04
10	86	UZ	0.35898E-03
11	1	UX	0.13845E-03
12	3	UX	0.87128E-03
13	9004	UZ	0.80956E-04
14	1	UZ	0.13845E-03
15	1	UY	0.13845E-03
16	3	UY	0.87128E-03
17	86	UY	0.35898E-03
18	86	UX	0.35898E-03
19	308	UX	82.321
20	308	UY	82.321
21	308	UZ	82.321
22	84	UX	0.82322E-04
23	310	UX	99.604
24	310	UY	99.604
25	310	UZ	99.604
26	118	UY	0.38091E-03
27	102	UY	0.13916E-03
28	102	UX	0.13916E-03
29	55	UY	0.13692E-03
30	60	UZ	0.12361E-03
31	58	UY	0.10309E-03
32	5	UY	0.31604E-03
33	313	UX	88.439
34	313	UY	88.439
35	313	UZ	88.439
36	5	UZ	0.31604E-03
37	9004	UZ	0.15159E-02
38	3	UZ	0.87128E-03
39	2	UX	0.46190E-03
40	2	UY	0.46190E-03
41	2	UZ	0.46190E-03
42	10	UZ	0.15514E-02
43	4	UX	0.82347E-03
44	4	UY	0.82347E-03
45	4	UZ	0.82347E-03
46	5	UX	0.31604E-03
47	9001	UX	0.80709E-04
48	9001	UY	0.80709E-04
49	9001	UZ	0.80709E-04
50	6	UZ	0.86873E-04
51	6	UY	0.86873E-04
52	6	UX	0.86873E-04
53	9002	UX	0.80709E-04
54	9002	UY	0.80709E-04
55	9002	UZ	0.80709E-04
56	10	UY	0.15514E-02
57	7	UX	0.80443E-03
58	7	UY	0.80443E-03
59	7	UZ	0.80443E-03
60	9004	UY	0.15159E-02
61	9004	UX	0.15159E-02
62	19	UY	0.73663E-03
63	9003	UX	0.15159E-02
64	9003	UY	0.15159E-02
65	9003	UZ	0.15159E-02
66	14	UZ	0.30444E-03
67	9	UX	0.16656E-02
68	9	UY	0.16656E-02
69	9	UZ	0.16656E-02
70	10	UX	0.15514E-02
71	9005	UX	0.12877E-02
72	9005	UY	0.12877E-02
73	9005	UZ	0.12877E-02

74	11	UZ	0.86524E-03
75	11	UY	0.86524E-03
76	11	UX	0.86524E-03
77	9006	UX	0.12877E-02
78	9006	UY	0.12877E-02
79	9006	UZ	0.12877E-02
80	14	UY	0.30444E-03
81	12	UX	0.26190E-03
82	12	UY	0.26190E-03
83	12	UZ	0.26190E-03
84	9008	UY	0.80956E-04
85	9008	UX	0.80956E-04
86	19	UZ	0.73663E-03
87	9007	UX	0.80709E-04
88	9007	UY	0.80709E-04
89	9007	UZ	0.80709E-04
90	9022	UZ	0.10558E-02
91	13	UX	0.97256E-04
92	13	UY	0.97256E-04
93	13	UZ	0.97256E-04
94	14	UX	0.30444E-03
95	15	UX	0.11875E-02
96	15	UY	0.11875E-02
97	15	UZ	0.11875E-02
98	17	UY	0.20337E-03
99	17	UX	0.20337E-03
100	44	UX	0.88443E-03
101	16	UX	0.34824E-03
102	16	UY	0.34824E-03
103	16	UZ	0.34824E-03
104	84	UZ	0.82322E-04
105	18	UX	0.34472E-03
106	18	UY	0.34472E-03
107	18	UZ	0.34472E-03
108	19	UX	0.73663E-03
109	9022	UY	0.10558E-02
110	87	UX	0.16484E-03
111	87	UZ	0.16484E-03
112	87	UY	0.16484E-03
113	20	UX	0.65579E-03
114	20	UY	0.65579E-03
115	20	UZ	0.65579E-03
116	23	UZ	0.12866E-02
117	9013	UZ	0.14591E-02
118	9010	UZ	0.16514E-02
119	85	UX	0.22850E-03
120	85	UY	0.22850E-03
121	85	UZ	0.22850E-03
122	44	UZ	0.88443E-03
123	83	UX	0.57601E-03
124	83	UY	0.57601E-03
125	83	UZ	0.57601E-03
126	9022	UX	0.10558E-02
127	82	UX	0.64890E-03
128	82	UY	0.64890E-03
129	82	UZ	0.64890E-03
130	80	UZ	0.27960E-03
131	80	UY	0.27960E-03
132	80	UX	0.27960E-03
133	81	UX	0.17648E-03
134	81	UY	0.17648E-03
135	81	UZ	0.17648E-03
136	23	UY	0.12866E-02
137	21	UX	0.94718E-03
138	21	UY	0.94718E-03
139	21	UZ	0.94718E-03
140	9010	UY	0.16514E-02
141	9010	UX	0.16514E-02
142	31	UZ	0.81147E-04
143	9009	UX	0.16516E-02
144	9009	UY	0.16516E-02
145	9009	UZ	0.16516E-02
146	27	UZ	0.10027E-02
147	22	UX	0.10007E-02
148	22	UY	0.10007E-02
149	22	UZ	0.10007E-02
150	23	UX	0.12866E-02
151	24	UX	0.10247E-02
152	24	UY	0.10247E-02
153	24	UZ	0.10247E-02
154	9012	UZ	0.13752E-02
155	9012	UY	0.13752E-02
156	9012	UX	0.13752E-02
157	9011	UX	0.13752E-02
158	9011	UY	0.13752E-02
159	9011	UZ	0.13752E-02
160	27	UY	0.10027E-02
161	25	UX	0.88329E-03
162	25	UY	0.88329E-03
163	25	UZ	0.88329E-03
164	9013	UY	0.14591E-02
165	9013	UX	0.14591E-02
166	9019	UZ	0.14034E-02
167	26	UX	0.92532E-03
168	26	UY	0.92532E-03
169	26	UZ	0.92532E-03
170	35	UZ	0.23442E-03
171	9014	UX	0.14593E-02
172	9014	UY	0.14593E-02
173	9014	UZ	0.14593E-02
174	27	UX	0.10027E-02

175	28	UX	0.14612E-02
176	28	UY	0.14612E-02
177	28	UZ	0.14612E-02
178	9015	UZ	0.15384E-02
179	9015	UY	0.15384E-02
180	9015	UX	0.15384E-02
181	29	UX	0.11809E-02
182	29	UY	0.11809E-02
183	29	UZ	0.11809E-02
184	35	UY	0.23442E-03
185	9016	UX	0.15384E-02
186	9016	UY	0.15384E-02
187	9016	UZ	0.15384E-02
188	31	UY	0.81147E-04
189	31	UX	0.81147E-04
190	9020	UZ	0.11757E-02
191	30	UX	0.78960E-03
192	30	UY	0.78960E-03
193	30	UZ	0.78960E-03
194	41	UZ	0.72776E-03
195	32	UX	0.12126E-03
196	32	UY	0.12126E-03
197	32	UZ	0.12126E-03
198	35	UX	0.23442E-03
199	37	UX	0.21762E-02
200	37	UY	0.21762E-02
201	37	UZ	0.21762E-02
202	9018	UZ	0.13340E-02
203	9018	UY	0.13340E-02
204	9018	UX	0.13340E-02
205	9017	UX	0.13340E-02
206	9017	UY	0.13340E-02
207	9017	UZ	0.13340E-02
208	41	UY	0.72776E-03
209	38	UX	0.88082E-03
210	38	UY	0.88082E-03
211	38	UZ	0.88082E-03
212	9019	UY	0.14034E-02
213	9019	UX	0.14034E-02
214	46	UX	0.64968E-03
215	39	UX	0.21577E-02
216	39	UY	0.21577E-02
217	39	UZ	0.21577E-02
218	115	UZ	0.32109E-03
219	40	UX	0.13083E-02
220	40	UY	0.13083E-02
221	40	UZ	0.13083E-02
222	41	UX	0.72776E-03
223	43	UX	0.15102E-03
224	43	UY	0.15102E-03
225	43	UZ	0.15102E-03
226	46	UY	0.64968E-03
227	9020	UX	0.11757E-02
228	95	UX	0.25499E-02
229	79	UX	0.93805E-03
230	79	UY	0.93805E-03
231	79	UZ	0.93805E-03
232	9020	UY	0.11757E-02
233	45	UX	0.14426E-02
234	45	UY	0.14426E-02
235	45	UZ	0.14426E-02
236	46	UZ	0.64968E-03
237	102	UZ	0.13918E-03
238	118	UZ	0.38091E-03
239	9021	UX	0.11795E-02
240	9021	UY	0.11795E-02
241	9021	UZ	0.11795E-02
242	48	UZ	0.17188E-03
243	78	UX	0.98347E-03
244	78	UY	0.98347E-03
245	78	UZ	0.98347E-03
246	94	UZ	0.17734E-03
247	77	UX	0.19579E-03
248	77	UY	0.19579E-03
249	77	UZ	0.19579E-03
250	48	UY	0.17188E-03
251	48	UX	0.17188E-03
252	49	UY	0.25496E-02
253	47	UX	0.18541E-03
254	47	UY	0.18541E-03
255	47	UZ	0.18541E-03
256	49	UZ	0.25496E-02
257	73	UX	0.12862E-02
258	73	UY	0.12862E-02
259	91	UX	0.29369E-03
260	91	UY	0.29369E-03
261	91	UZ	0.29369E-03
262	98	UZ	0.21381E-03
263	98	UY	0.21381E-03
264	98	UX	0.21381E-03
265	130	UZ	0.21953E-03
266	130	UY	0.21953E-03
267	97	UZ	0.12629E-03
268	130	UX	0.21953E-03
269	101	UX	0.21041E-03
270	101	UY	0.21041E-03
271	101	UZ	0.21041E-03
272	96	UY	0.11554E-03
273	96	UZ	0.11554E-03
274	95	UZ	0.25499E-02
275	113	UX	0.31809E-03

276	113	UY	0.31809E-03
277	113	UZ	0.31809E-03
278	115	UY	0.32109E-03
279	115	UX	0.32109E-03
280	122	UX	0.92136E-04
281	114	UX	0.12701E-02
282	114	UY	0.12701E-02
283	114	UZ	0.12701E-02
284	120	UZ	0.38091E-03
285	116	UX	0.11607E-03
286	116	UY	0.11607E-03
287	116	UZ	0.11607E-03
288	118	UX	0.38091E-03
289	100	UX	0.15451E-03
290	100	UY	0.15451E-03
291	100	UZ	0.15451E-03
292	95	UY	0.25499E-02
293	97	UX	0.12629E-03
294	49	UX	0.25495E-02
295	92	UX	0.35318E-03
296	92	UY	0.35318E-03
297	92	UZ	0.35318E-03
298	97	UY	0.12629E-03
299	9024	UX	0.43921E-03
300	9024	UY	0.43921E-03
301	9024	UZ	0.43921E-03
302	120	UY	0.38091E-03
303	120	UX	0.38091E-03
304	122	UY	0.92136E-04
305	93	UX	0.18829E-03
306	93	UY	0.18829E-03
307	93	UZ	0.18829E-03
308	96	UX	0.11554E-03
309	94	UX	0.17734E-03
310	94	UY	0.17734E-03
311	9023	UX	0.67812E-03
312	9023	UY	0.67812E-03
313	9023	UZ	0.67812E-03
314	122	UZ	0.92136E-04
315	124	UX	0.94692E-03
316	124	UY	0.94692E-03
317	129	UX	0.13018E-02
318	129	UY	0.13018E-02
319	129	UZ	0.13018E-02
320	124	UZ	0.94692E-03
321	127	UX	0.34757E-03
322	127	UY	0.34757E-03
323	127	UZ	0.34757E-03
324	107	UY	0.78229E-04
325	125	UX	0.16208E-03
326	125	UY	0.16208E-03
327	125	UZ	0.16208E-03
328	71	UZ	0.35486E-02
329	76	UX	0.16127E-03
330	76	UY	0.16127E-03
331	76	UZ	0.16127E-03
332	73	UZ	0.12862E-02
333	75	UX	0.25499E-02
334	75	UY	0.25499E-02
335	75	UZ	0.25499E-02
336	70	UY	0.15682E-03
337	74	UZ	0.16177E-03
338	74	UY	0.16177E-03
339	74	UX	0.16177E-03
340	72	UZ	0.56868E-03
341	71	UX	0.35486E-02
342	63	UZ	0.34780E-03
343	50	UX	0.14125E-03
344	50	UY	0.14125E-03
345	50	UZ	0.14125E-03
346	132	UZ	0.72099E-02
347	51	UX	0.14413E-03
348	51	UY	0.14413E-03
349	51	UZ	0.14413E-03
350	72	UY	0.56868E-03
351	72	UX	0.56868E-03
352	71	UY	0.35486E-02
353	52	UX	0.13892E-02
354	52	UY	0.13892E-02
355	52	UZ	0.13892E-02
356	70	UX	0.15682E-03
357	53	UX	0.13913E-02
358	53	UY	0.13913E-02
359	53	UZ	0.13913E-02
360	105	UZ	0.58318E-03
361	133	UX	0.11123E-02
362	133	UY	0.11123E-02
363	133	UZ	0.11123E-02
364	112	UZ	0.52160E-04
365	63	UY	0.34780E-03
366	107	UZ	0.78229E-04
367	134	UX	0.72099E-02
368	134	UY	0.72099E-02
369	134	UZ	0.72099E-02
370	70	UZ	0.15682E-03
371	69	UX	0.10828E-03
372	69	UY	0.10828E-03
373	69	UZ	0.10828E-03
374	112	UY	0.52160E-04
375	112	UX	0.52160E-04
376	132	UX	0.72099E-02

377	68	UX	0.16777E-03
378	68	UY	0.16777E-03
379	68	UZ	0.16777E-03
380	131	UZ	0.11123E-02
381	63	UX	0.54780E-03
382	105	UX	0.58316E-03
383	108	UX	0.32349E-04
384	109	UY	0.32349E-04
385	109	UZ	0.32349E-04
386	107	UX	0.78229E-04
387	105	UY	0.58316E-03
388	111	UZ	0.27040E-04
389	111	UX	0.27040E-04
390	111	UY	0.27040E-04
391	67	UX	0.14932E-03
392	67	UY	0.14932E-03
393	67	UZ	0.14932E-03
394	106	UZ	0.17018E-03
395	106	UY	0.17018E-03
396	106	UX	0.17018E-03
397	66	UX	0.19786E-03
398	66	UY	0.19786E-03
399	66	UZ	0.19786E-03
400	132	UY	0.72099E-02
401	54	UX	0.15284E-02
402	54	UY	0.15284E-02
403	54	UZ	0.15284E-02
404	55	UX	0.13692E-03
405	60	UY	0.12361E-03
406	57	UY	0.86391E-03
407	65	UX	0.35486E-02
408	65	UY	0.35486E-02
409	65	UZ	0.35486E-02
410	59	UX	0.14461E-03
411	59	UY	0.14461E-03
412	59	UZ	0.14461E-03
413	131	UX	0.11123E-02
414	131	UY	0.11123E-02
415	64	UX	0.33704E-03
416	64	UY	0.33704E-03
417	64	UZ	0.33704E-03
418	55	UZ	0.13692E-03
419	61	UX	0.25333E-03
420	61	UZ	0.25333E-03
421	104	UX	0.15771E-03
422	104	UY	0.15771E-03
423	104	UZ	0.15771E-03
424	61	UY	0.25333E-03
425	103	UX	0.73461E-04
426	103	UY	0.73461E-04
427	103	UZ	0.73461E-04
428	57	UX	0.86391E-03
429	56	UX	0.16758E-03
430	56	UY	0.16758E-03
431	56	UZ	0.16758E-03
432	60	UX	0.12361E-03
433	58	UX	0.10309E-03
434	58	UZ	0.10309E-03
435	62	UX	0.12629E-03
436	62	UY	0.12629E-03
437	62	UZ	0.12629E-03
438	57	UZ	0.86391E-03

MASS(X,Y,Z) = 547.0 547.0 547.0

1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM REVISION 5.0 *****
40416-2 VERSION=SUN4SPARC 15:55:19 OCT 11, 1995 CP= 117.590
FOR SUPPORT CALL PHONE FAX

Modal analysis of coupled system of pressurizer spray line & building

ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY

***** PARTICIPATION FACTOR CALCULATION ***** X DIRECTION

MODE	FREQUENCY	PERIOD	PARTIC.FACTOR	RATIO	EFFECTIVE MASS	CUMULATIVE MASS FRACTION
1	1.31446	0.76077	0.898458E-01	0.004813	0.807220E-02	0.231605E-04
2	1.58671	0.63024	-0.727838E-01	0.003899	0.529734E-02	0.343595E-04
3	2.80072	0.35705	0.760018E-01	0.004071	0.577616E-02	0.549322E-04
4	3.42995	0.29155	0.787828E-02	0.000422	0.620661E-04	0.551103E-04
5	3.60037	0.27775	0.868028E-01	0.004650	0.753457E-02	0.767283E-04
6	3.88292	0.25754	0.266648E-02	0.000143	0.710966E-05	0.767487E-04
7	4.25899	0.23480	0.231528E-01	0.001144	0.455887E-03	0.780567E-04
8	5.68358	0.17595	-0.775938E-03	0.000042	0.602073E-06	0.780584E-04
9	7.46720	0.13392	0.729538E-01	0.003908	0.532210E-02	0.933284E-04
10	8.06090	0.12406	-0.158769E-01	0.000850	0.252053E-03	0.940516E-04
11	8.27428	0.12086	0.402728E-02	0.000216	0.162180E-04	0.940981E-04
12	10.1768	0.98263E-01	-0.166628E-03	0.000010	0.348284E-07	0.940982E-04
13	10.6266	0.94103E-01	0.263848E-01	0.001413	0.696123E-03	0.960955E-04
14	12.0343	0.83096E-01	18.667	1.000000	348.458	0.999882
15	13.0819	0.76441E-01	-0.11183	0.005991	0.125064E-01	0.999918
16	13.4382	0.74415E-01	-0.677468E-02	0.000363	0.458946E-04	0.999918
17	14.7921	0.67604E-01	0.329428E-02	0.000176	0.108518E-04	0.999918
18	16.0649	0.62248E-01	0.160538E-02	0.000086	0.257687E-05	0.999918
19	16.5943	0.60252E-01	-0.525158E-03	0.000028	0.275787E-06	0.999918
20	17.7503	0.56337E-01	-0.105438E-01	0.000565	0.111146E-03	0.999919
21	18.2437	0.54813E-01	0.444118E-02	0.000238	0.197236E-04	0.999919

22	19.6365	0.50925E-01	0.141578E-02	0.000076	0.200420E-05	0.999919
23	20.8827	0.47887E-01	0.376688E-01	0.002018	0.141886E-02	0.999923
24	22.1658	0.45115E-01	-0.250248E-02	0.000134	0.626401E-05	0.999923
25	23.0553	0.43374E-01	-0.144378E-01	0.000773	0.208441E-03	0.999923
26	23.4666	0.42614E-01	0.469458E-01	0.002515	0.220384E-02	0.999930
27	23.5227	0.42512E-01	0.380098E-01	0.002036	0.144465E-02	0.999934
28	24.1094	0.41478E-01	-0.503488E-01	0.002697	0.253494E-02	0.999941
29	25.3125	0.39506E-01	-0.267488E-01	0.001433	0.715435E-03	0.999943
30	26.0584	0.38375E-01	-0.10462	0.005604	0.109444E-01	0.999975
31	26.2912	0.38036E-01	0.257908E-02	0.000138	0.665135E-05	0.999975
32	26.4541	0.37801E-01	-0.815547E-01	0.004476	0.698018E-02	0.999995
33	26.8817	0.37200E-01	0.433038E-01	0.002320	0.187513E-02	1.00000

SUM OF EFFECTIVE MASSES= 348.533

***** PARTICIPATION FACTOR CALCULATION ***** Y DIRECTION

MODE	FREQUENCY	PERIOD	PARTIC.FACTOR	RATIO	EFFECTIVE MASS	CUMULATIVE MASS FRACTION
1	1.31446	0.76077	-0.723588E-03	0.003197	0.523572E-06	0.214347E-05
2	1.58671	0.63024	0.167558E-03	0.000740	0.280719E-07	0.225839E-05
3	2.80072	0.35705	0.706548E-02	0.031215	0.499197E-04	0.206626E-03
4	3.42995	0.29155	0.422418E-02	0.018662	0.178434E-04	0.279676E-03
5	3.60037	0.27775	-0.432608E-02	0.019112	0.187144E-04	0.356292E-03
6	3.88292	0.25754	0.17444	0.770662	0.304283E-01	0.124928
7	4.25899	0.23480	-0.671428E-02	0.029663	0.450805E-04	0.125112
8	5.68358	0.17595	0.506098E-01	0.223592	0.256131E-02	0.135596
9	7.46720	0.13392	-0.501298E-02	0.022147	0.251287E-04	0.135701
10	8.06090	0.12406	-0.281638E-01	0.124426	0.793176E-03	0.138948
11	8.27428	0.12086	0.11938	0.527404	0.142507E-01	0.197290
12	10.1768	0.98263E-01	-0.183298E-03	0.000810	0.335949E-07	0.197290
13	10.6266	0.94103E-01	-0.856868E-02	0.037856	0.734204E-04	0.197591
14	12.0343	0.83096E-01	0.201928E-03	0.000892	0.407721E-07	0.197591
15	13.0819	0.76441E-01	0.554495E-01	0.244974	0.307460E-02	0.210178
16	13.4382	0.74415E-01	-0.12434	0.549353	0.154515E-01	0.273476
17	14.7921	0.67604E-01	-0.138717E-01	0.061283	0.192410E-03	0.274264
18	16.0649	0.62248E-01	0.935498E-02	0.041330	0.875144E-04	0.274622
19	16.5943	0.60262E-01	-0.13380	0.591126	0.179023E-01	0.347913
20	17.7503	0.56337E-01	-0.269638E-02	0.011912	0.726996E-05	0.347943
21	18.2437	0.54813E-01	-0.465508E-01	0.205656	0.216686E-02	0.356814
22	19.6365	0.50925E-01	-0.568118E-01	0.250993	0.322754E-02	0.370027
23	20.8827	0.47887E-01	0.914898E-01	0.404199	0.837027E-02	0.404295
24	22.1658	0.45115E-01	0.11432	0.505048	0.130681E-01	0.457795
25	23.0553	0.43374E-01	0.347268E-01	0.153421	0.120592E-02	0.462732
26	23.4666	0.42614E-01	0.10360	0.457726	0.107340E-01	0.506676
27	23.5227	0.42512E-01	-0.22635	1.000000	0.512329E-01	0.716420
28	24.1094	0.41478E-01	0.449708E-01	0.198677	0.202230E-02	0.724700
29	25.3125	0.39506E-01	-0.364408E-01	0.160991	0.132786E-02	0.730136
30	26.0584	0.38375E-01	0.17376	0.767670	0.301924E-01	0.853742
31	26.2912	0.38036E-01	-0.101728E-01	0.044939	0.103465E-03	0.854165
32	26.4541	0.37801E-01	-0.16961	0.749349	0.287665E-01	0.971942
33	26.8817	0.37200E-01	0.827878E-01	0.365751	0.685362E-02	1.00000

SUM OF EFFECTIVE MASSES= 0.244264

***** PARTICIPATION FACTOR CALCULATION ***** Z DIRECTION

MODE	FREQUENCY	PERIOD	PARTIC.FACTOR	RATIO	EFFECTIVE MASS	CUMULATIVE MASS FRACTION
1	1.31446	0.76077	0.816478E-01	0.004597	0.666621E-02	0.144515E-04
2	1.58671	0.63024	0.10694	0.006021	0.114357E-01	0.392425E-04
3	2.80072	0.35705	0.326548E-02	0.000184	0.106627E-04	0.392656E-04
4	3.42995	0.29155	0.761708E-02	0.000429	0.580185E-04	0.393914E-04
5	3.60037	0.27775	-0.409958E-02	0.000231	0.168055E-04	0.394278E-04
6	3.88292	0.25754	-0.517468E-02	0.000291	0.267764E-04	0.394859E-04
7	4.25899	0.23480	0.269018E-01	0.001402	0.620061E-03	0.408301E-04
8	5.68358	0.17595	0.868148E-02	0.000489	0.753673E-04	0.409935E-04
9	7.46720	0.13392	0.336528E-02	0.000189	0.113242E-04	0.410180E-04
10	8.06090	0.12406	0.558998E-01	0.003147	0.312474E-02	0.477920E-04
11	8.27428	0.12086	-0.108358E-02	0.000061	0.117390E-05	0.477945E-04
12	10.1768	0.98263E-01	17.762	1.000000	315.494	0.683997
13	10.6266	0.94103E-01	-0.791248E-01	0.004455	0.626066E-02	0.684010
14	12.0343	0.83096E-01	0.596748E-03	0.000034	0.356101E-06	0.684010
15	13.0819	0.76441E-01	0.336278E-01	0.001893	0.113080E-02	0.684013
16	13.4382	0.74415E-01	-0.679028E-01	0.003823	0.461065E-02	0.684023
17	14.7921	0.67604E-01	-0.109048E-01	0.000614	0.118900E-03	0.684023
18	16.0649	0.62248E-01	-0.867208E-01	0.004882	0.752041E-02	0.684039
19	16.5943	0.60262E-01	0.121518E-01	0.000684	0.147639E-03	0.684040
20	17.7503	0.56337E-01	-0.478548E-01	0.002694	0.229001E-02	0.684045
21	18.2437	0.54813E-01	-0.478778E-01	0.002695	0.229222E-02	0.684050
22	19.6365	0.50925E-01	0.281578E-01	0.001585	0.792829E-03	0.684051
23	20.8827	0.47887E-01	-0.885008E-01	0.004982	0.783219E-02	0.684068
24	22.1658	0.45115E-01	-0.337888E-01	0.001902	0.114163E-02	0.684071
25	23.0553	0.43374E-01	-0.671638E-02	0.000378	0.451082E-04	0.684071
26	23.4666	0.42614E-01	0.112208E-01	0.000632	0.125878E-03	0.684071
27	23.5227	0.42512E-01	-0.100528E-01	0.000566	0.101051E-03	0.684072
28	24.1094	0.41478E-01	0.209508E-01	0.001179	0.438909E-03	0.684072
29	25.3125	0.39506E-01	0.20977	0.011810	0.440029E-01	0.684168
30	26.0584	0.38375E-01	0.41273	0.023237	0.170346	0.684537
31	26.2912	0.38036E-01	12.058	0.678854	145.393	0.999730
32	26.4541	0.37801E-01	-0.31554	0.017765	0.995643E-01	0.999946
33	26.8817	0.37200E-01	0.15789	0.008889	0.249282E-01	1.00000

SUM OF EFFECTIVE MASSES= 461.282

*** PROBLEM STATISTICS
ACTUAL NO. OF ACTIVE DEGREES OF FREEDOM = 480
R.M.S. WAVEFRONT SIZE = 271.3
NUMBER OF MASTER DEGREES OF FREEDOM = 438

```
*** ANSYS BINARY FILE STATISTICS
 BUFFER SIZE USED= 4096
        0.188 MB WRITTEN ON ELEMENT MATRIX FILE: cpmodal.emat
        0.141 MB WRITTEN ON ELEMENT SAVED DATA FILE: cpmodal.esav
        0.906 MB WRITTEN ON TRIANGULARIZED MATRIX FILE: cpmodal.tri
        3.062 MB WRITTEN ON MODAL MATRIX FILE: cpmodal.mode

FINISH SOLUTION PROCESSING


***** ROUTINE COMPLETED *****  CP =      117.890



***** END OF INPUT ENCOUNTERED *****

PURGE ALL SOLUTION AND POST DATA
SAVE ALL MODEL DATA

ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= cpmodal.db
 FOR POSSIBLE RESUME FROM THIS POINT


NUMBER OF WARNING MESSAGES ENCOUNTERED=        10
NUMBER OF ERROR   MESSAGES ENCOUNTERED=         0

+--------------------------------------------------------------------+
|                                                                    |
|                     ANSYS RUN COMPLETED                            |
|                                                                    |
|--------------------------------------------------------------------|
|                                                                    |
|         REV. 5.0                         SUN4SPARC                 |
|                                                                    |
|     CP TIME      (sec) =       118.520     TIME  =  15:55:25       |
|     ELAPSED TIME (sec) =       222.000     DATE  =  10/11/95       |
|                                                                    |
+--------------------------------------------------------------------+
```

```
/batch,list
/filnam,pb2ecx
/units,bft                              !weight: kips, Length: feet
/prep7
g=386.4/12
a=144/1000
b=(12**3)/1000
c=0.036126684*b/g
d=12/1000
r1=2.875/12
r3=0.84/12
r5=1.9/12
t1=0.375/12
t3=0.188/12
t5=0.281/12
rr11=1.667
rr1=0.3125
rr12=0.5
rr13=0.313
rr3=0.125
rr5=0.187
/title, Time-history analysis of coupled system (presurizer spray line)
mp,ex,1,(28.3e6*a)                      ! for piping
mp,nuxy,1,0.3
mp,dens,1,(0.40695565*b/g)
mp,ex,2,(28.3e6*a)
mp,nuxy,2,0.3
mp,dens,2,(0.43867346*b/g)
mp,ex,3,(28.3e6*a)
mp,nuxy,3,0.3
mp,dens,3,(0.92858561*b/g)
mp,ex,4,(28.3e6*a)
mp,nuxy,4,0.3
mp,dens,4,(5.8515393*b/g)
mp,ex,5,(28.3e6*a)
mp,nuxy,5,0.3
mp,dens,5,(0.49939372*b/g)
mp,ex,6,(28.3e6*a)
mp,nuxy,6,0.3
mp,dens,6,(2.5829705*b/g)
et,1,pipe16,,,,,1
et,2,pipe18,,,,,2
et,3,combin14,,1                        !1D spring X' Direction
et,4,combin14,,2                        !1D spring Y' Direction
et,5,combin14,,3                        !1D spring Z' Direction
et,6,combin14,,4                        !1D spring  ROTX' Direction
et,7,combin14,,5                        !1D spring  ROTY' Direction
et,8,combin14,,6                        !1D spring  ROTZ' Direction
et,10,mass21,,,2
r,11,r1,t1,,,,c
r,211,r1,t1,rr11
rmore,c
r,21,r1,t1,rr1
rmore,c
r,212,r1,t1,rr12
rmore,c
r,213,r1,t1,rr13
rmore,c
r,13,r3,t3,,,,c
r,23,r3,t3,rr3
rmore,c
r,15,r5,t5,,,,c
r,25,r5,t5,rr5
rmore,c
r,51,(77000*d)
r,52,(56*d)
r,53,(212000*d)
r,54,(126*d)
r,55,(35*d)
r,56,(400*d)
r,57,(224*d)
r,58,(1.0e11*d)
r,59,8.33e8
r,31,(25.0/g/1000)
r,32,(4.0/g/1000)
r,33,(43.0/g/1000)
r,34,(40.0/g/1000)
r,35,(75.0/g/1000)
r,36,(5.0/g/1000)
r,37,(6.0/g/1000)
r,38,(105.0/g/1000)
r,39,(10.0/g/1000)
r,40,(12.0/g/1000)
r,41,(31.5/g/1000)
r,42,(230.0/g/1000)
f=1/(12**12)
l=1/(12**4)
et,71,beam4                             ! for building
mp,ex,71,(4.5e6*a)
mp,nuxy,71,0.3
mp,dens,71,0.0
```



```
r,71,(157000*f),(1*1.18e+10),(1*1.03e+10),
rmore,,,1.71,1.67
r,72,(243000*f),(1*1.43e+10),(1*1.1e+10),
rmore,,,1.26,1.23
r,73,(162000*f),(1*1.25e+10),(1*1.6e+10),
rmore,,,1.57,2.33
r,74,(132000*f),(1*1.15e+10),(1*1.48e+10),
rmore,,(1*2.44e10),1.59,2.26
r,75,(92660*f),(1*5.656e+09),(1*2.151e+09),
rmore,,,1.42,2.57
r,76,(98710*f),(1*7.372e+09),(1*2.603e+09),
rmore,,,1.51,2.88
et,72,mass21,,,2
r,77,(4474.0e3/g/1000)
r,78,(4428.75e3/g/1000)
r,79,(2650.75e3/g/1000)
r,80,(3207.25e3/g/1000)
r,81,(2847.75e3/g/1000)
N,1,0,574,0
N,2,0.396,574,-0.396
N,3,1.574,574,-0.884
N,4,3.79,574,-0.884
N,5,4.905,574,-0.884
N,9001,5.061,574.042,-0.884
N,9002,5.175,574.156,-0.884
N,6,5.217,574.312,-0.884
N,7,5.217,574.5,-0.884
N,9003,5.217,577.566,-0.884
N,9004,5.217,580.632,-0.884
N,9,5.217,583.698,-0.884
N,10,5.217,584.229,-0.884
N,9005,5.217,586.833,-0.884
N,9006,5.217,589.438,-0.884
N,11,5.217,592.042,-0.884
N,12,5.217,592.938,-0.884
N,9007,5.259,593.094,-0.884
N,9008,5.373,593.208,-0.884
N,13,5.53,593.25,-0.884
N,14,5.759,593.25,-0.884
N,15,6.259,593.25,-0.884
N,16,7.422,593.25,-0.884
N,17,7.643,593.25,-0.792
N,18,8.051,593.25,-0.384
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N,9011,10.379,608.436,1.944
N,9012,10.379,611.218,1.944
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N,102,16.135,636.394,22.111
N,77,16.135,636.144,22.111
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N,116,16.135,636.707,23.84
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N,125,16.135,641.841,25.411
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type,2
real,211
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e,4,5
type,2
real,21
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e,9001,9002,4
e,9002,6,4
type,1
real,11
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e,7,9003
e,9003,9004
e,9004,9
e,9,10
e,10,9005
e,9005,9006
e,9006,11
e,11,12
type,2
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e,9007,9008,11
e,9008,13,11
type,1
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e,13,14
e,14,15
e,15,16
type,2
real,21
e,16,17,15
type,1
real,11
e,17,18
e,18,19
e,19,20
type,2
real,21
e,20,21,19
type,1
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e,   22 ,   23
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type,1
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e,   38 ,   39
e,   39 , 9019
e, 9019 ,   40
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e,41,43,40
type,1
real,11
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e,   44 ,   45
e,   45 , 9020
e, 9020 ,   46
e,   46 ,   47
e,   47 ,   48
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real,11
mat,2
e,48,49
e,49,50
type,1
real,11
mat,1
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e,   52 ,   53
e,   53 ,   54
e,   54 ,   55
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type,1
real,11
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e,   58 ,   59
e,   59 ,   60
e,   60 ,   61
e,   61 ,   62
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type,1
real,11
e,63,64
type,1
real,11
mat,2
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mat,1
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e,67,68
e,68,69
e,69,70
type,1
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mat,2
e,70,71
e,71,72
type,1
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e,73,74
mat,2
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mat,1
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e,   79 ,   80
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type,1
real,11
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e,   83 ,   84
e,   84 ,   85
type,2
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type,1
real,11
e,86,87
e,47,91
e,91,92
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type,1
real,11
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e,95,96
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e,  101 ,  102
e,102,77
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e,105,106
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type,4
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type,5
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type,6
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type,5
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real,53
type,4
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type,3
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real,51
type,4
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real,57
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type,4
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type,5
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type,6
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type,7
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type,8
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real,58
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type,4
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type,5
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real,59
type,6
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type,7
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type,8
e,130,1130
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e,10
e,15
e,23
e,28
e,44
e,45
e,52
e,54
e,57
e,73
e,114
e,124
e,129
real,32
e,14
e,79
real,33
e,37
real,34
e,39
real,35
e,49
e,75
e,95
real,36
e,53
real,37
e,61
real,38
e,65
e,71
real,39
e,78
real,40
e,105
real,41
e,131
e,133
real,42
e,132
e,134
n, 301 ,0,        565 ,0,                    for building
n, 302 ,0,        568 ,0,
n, 303 ,0,        571 ,0,
n, 304 ,0,        574 ,0,
n, 305 ,0, 577.83333 ,0,
n, 306 ,0,        590 ,0,
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lumpm,on
save
finish

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/solu
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esol , 27 , 123 , 112 , m , y
esol , 28 , 125 , 101 , f , x
esol , 29 , 125 , 101 , m , y
esol , 30 , 139 ,  65 , f , x
extrem,2,30
save
finish

/solu
expass,on
numexp,100,0.1,0.2
```

```
outpr,,none
solve
save
finish

/post26
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esol ,  3 ,   1 ,   1 , f , y
esol ,  4 ,   1 ,   1 , m , x
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esol ,  6 ,   8 ,   6 , f , x
esol ,  7 ,   8 ,   6 , m , z
esol ,  8 ,  12 ,  10 , f , x
esol ,  9 ,  12 ,  10 , f , z
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esol , 13 ,  22 ,  15 , m , z
esol , 14 ,  32 ,  23 , m , x
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esol , 16 ,  48 ,  35 , f , y
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esol , 18 ,  52 ,  39 , m , y
esol , 19 ,  58 ,  45 , f , z
esol , 20 ,  58 ,  45 , m , z
esol , 21 ,  71 ,  56 , f , x
esol , 22 ,  86 ,  72 , f , x
esol , 23 , 107 ,  93 , m , x
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esol , 25 , 114 , 102 , f , z
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esol , 27 , 123 , 112 , m , y
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esol , 30 , 139 ,  65 , f , x
extrem,2,30
save
finish

/solu
expass,on
numexp,100,0.2,0.3
outpr,,none
solve
save
finish

/post26
numvar,30
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esol ,  3 ,   1 ,   1 , f , y
esol ,  4 ,   1 ,   1 , m , x
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esol , 15 ,  32 ,  23 , m , z
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esol , 22 ,  86 ,  72 , f , x
esol , 23 , 107 ,  93 , m , x
esol , 24 , 114 , 102 , f , x
esol , 25 , 114 , 102 , f , z
esol , 26 , 117 , 103 , f , x
esol , 27 , 123 , 112 , m , y
esol , 28 , 125 , 101 , f , x
esol , 29 , 125 , 101 , m , y
esol , 30 , 139 ,  65 , f , x
extrem,2,30
save
finish

/solu
expass,on
numexp,100,0.3,0.4
outpr,,none
solve
save
finish
```



```
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esol , 22 ,  86 ,  72 , f , x
esol , 23 , 107 ,  93 , m , x
esol , 24 , 114 , 102 , f , x
esol , 25 , 114 , 102 , f , z
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esol , 27 , 123 , 112 , m , y
esol , 28 , 125 , 101 , f , x
esol , 29 , 125 , 101 , m , y
esol , 30 , 139 ,  65 , f , x
extrem,2,30
save
finish

/solu
expass,on
numexp,100,0.4,0.5
outpr,,none
solve
save
finish

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esol ,  2 ,   1 ,   1 , f , x
esol ,  3 ,   1 ,   1 , f , y
esol ,  4 ,   1 ,   1 , m , x
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esol , 28 , 125 , 101 , f , x
esol , 29 , 125 , 101 , m , y
esol , 30 , 139 ,  65 , f , x
extrem,2,30
save
finish

/solu
expass,on
numexp,100,0.5,0.6
outpr,,none
solve
save
finish

/post26
numvar,30
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esol ,  3 ,   1 ,   1 , f , y
esol ,  4 ,   1 ,   1 , m , x
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esol ,  7 ,   8 ,   6 , m , z
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esol ,  9 ,  12 ,  10 , f , z
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esol , 27 , 123 , 112 , m , y
esol , 28 , 125 , 101 , f , x
esol , 29 , 125 , 101 , m , y
esol , 30 , 139 ,  65 , f , x
extrem,2,30
save
finish

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expass,on
numexp,100,0.6,0.7
outpr,,none
solve
save
finish

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esol , 27 , 123 , 112 , m , y
esol , 28 , 125 , 101 , f , x
esol , 29 , 125 , 101 , m , y
esol , 30 , 139 ,  65 , f , x
extrem,2,30
save
finish

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numexp,100,0.7,0.8
outpr,,none
solve
save
finish

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numvar,30
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esol ,  6 ,   8 ,   6 , f , x
esol ,  7 ,   8 ,   6 , m , z
esol ,  8 ,  12 ,  10 , f , x
esol ,  9 ,  12 ,  10 , f , z
```



```
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extrem,2,30
save
finish

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expass,on
numexp,100,0.8,0.9
outpr,,none
solve
save
finish

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extrem,2,30
save
finish

/solu
expass,on
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outpr,,none
solve
save
finish

/post26
numvar,30
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esol ,  7 ,   8 ,   6 , m , z
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esol , 10 ,  12 ,  10 , m , x
esol , 11 ,  12 ,  10 , m , z
esol , 12 ,  22 ,  15 , f , z
esol , 13 ,  22 ,  15 , m , z
esol , 14 ,  32 ,  23 , m , x
```

```
esol , 15 ,  32 ,  23 , m , z
esol , 16 ,  48 ,  35 , f , y
esol , 17 ,  52 ,  39 , f , x
esol , 18 ,  52 ,  39 , m , y
esol , 19 ,  58 ,  45 , f , z
esol , 20 ,  58 ,  45 , m , z
esol , 21 ,  71 ,  56 , f , x
esol , 22 ,  96 ,  72 , f , x
esol , 23 , 107 ,  93 , m , x
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esol , 28 , 125 , 101 , f , x
esol , 29 , 125 , 101 , m , y
esol , 30 , 139 ,  65 , f , x
extrem,2,30
save
finish
```

```
*------------------------------------------------------------------------------*
:                                                                              :
:        W E L C O M E   T O   T H E   A N S Y S   P R O G R A M               :
:                                                                              :
*------------------------------------------------------------------------------*



        *****  ANSYS COMMAND LINE ARGUMENTS  *****
 MEMORY REQUESTED (MB) =      48.0
*** WARNING ***
AUTHORIZATION FILE WILL SOON EXPIRE.
CONTACT YOUR LOCAL ANSYS DISTRIBUTOR FOR DETAILS.


        *****  ANSYS DYNAMIC MEMORY ALLOCATION  *****
 WORK SPACE REQUESTED                =    12582912       48.000  MB  COMMAND LINE
 MINIMUM WORK SPACE REQUIRED         =     2613736        9.971  MB
 MINIMUM WORK SPACE RECOMMENDED      =     4597640       17.539  MB
 WORK SPACE OBTAINED                 =    12582910       48.000  MB
 BYTES PER WORD                      =           4




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   SYSTEMS, INC. NOR THE DISTRIBUTOR SUPPLYING THIS PROGRAM
   ASSUME ANY RESPONSIBILITY FOR THE VALIDITY, ACCURACY, OR
   APPLICABILITY OF ANY RESULTS OBTAINED FROM THE ANSYS SYSTEM.
   USERS MUST VERIFY THEIR OWN RESULTS.

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   POSSIBLE.  SUGGESTIONS AND COMMENTS ARE WELCOMED.  ANY
   ERRORS ENCOUNTERED IN EITHER THE DOCUMENTATION OR THE
   RESULTS SHOULD BE IMMEDIATELY BROUGHT TO OUR ATTENTION.


ENTER  /SHOW,device TO SET THE GRAPHICS DISPLAY TO device(e.g. X11,4207,ETC.)
ENTER  /MENU,ON     TO START THE ANSYS MENU SYSTEM
ENTER  HELP         FOR GENERAL ANSYS HELP INFORMATION

40416-2          VERSION=SUN4SPARC      REVISION= 5.0
FOR SUPPORT CALL                    PHONE                    FAX
CURRENT JOBNAME=file      21:50:22  OCT 09, 1995 CP=      1.640


BEGIN:
    1  /filnam,pb2ecx
    2  /units,bft                          !weight: kips, Length: feet
    3  /prep7
    4  g=386.4/12
    5  a=144/1000
    6  b=(12**3)/1000
    7  c=0.036126684*b/g
    8  d=12/1000
    9  r1=2.875/12
   10  r3=0.84/12
   11  r5=1.9/12
   12  t1=0.375/12
   13  t3=0.188/12
   14  t5=0.281/12
   15  rr11=1.667
   16  rr1=0.3125
   17  rr12=0.5
   18  rr13=0.313
   19  rr3=0.125
   20  rr5=0.187
   21  /title, Time-history analysis of coupled system (pressurizer spray line)
   22  mp,ex,1,(28.3e6*a)                  ! for piping
   23  mp,nuxy,1,0.3
   24  mp,dens,1,(0.40695565*b/g)
   25  mp,ex,2,(28.3e6*a)
   26  mp,nuxy,2,0.3
   27  mp,dens,2,(0.43867346*b/g)
   28  mp,ex,3,(28.3e6*a)
   29  mp,nuxy,3,0.3
   30  mp,dens,3,(0.52856561*b/g)
   31  mp,ex,4,(28.3e6*a)
   32  mp,nuxy,4,0.3
```



```
   33  mp,dens,4,(5.8515393*b/g)
   34  mp,ex,5,(28.3e6*a)
   35  mp,nuxy,5,0.3
   36  mp,dens,5,(0.49939372*b/g)
   37  mp,ex,6,(28.3e6*a)
   38  mp,nuxy,6,0.3
   39  mp,dens,6,(2.5829705*b/g)
   40  et,1,pipe16,,,,,1
   41  et,2,pipe18,,,,,2
   42  et,3,combin14,,1                    !1D spring X' Direction
   43  et,4,combin14,,2                    !1D spring Y' Direction
   44  et,5,combin14,,3                    !1D spring Z' Direction
   45  et,6,combin14,,4                    !1D spring  ROTX' Direction
   46  et,7,combin14,,5                    !1D spring  ROTY' Direction
   47  et,8,combin14,,6                    !1D spring  ROTZ' Direction
   48  et,30,mass21,,,2
   49  r,11,r1,t1,,,,c
   50  r,211,r1,t1,rr11
   51  rmore,c
   52  r,21,r1,t1,rr1
   53  rmore,c
   54  r,212,r1,t1,rr12
   55  rmore,c
   56  r,213,r1,t1,rr13
   57  rmore,c
   58  r,13,r3,t3,,,,c
   59  r,23,r3,t3,rr3
   60  rmore,c
   61  r,15,r5,t5,,,,c
   62  r,25,r5,t5,rr5
   63  rmore,c
   64  r,51,(77000*d)
   65  r,52,(56*d)
   66  r,53,(212000*d)
   67  r,54,(126*d)
   68  r,55,(35*d)
   69  r,56,(400*d)
   70  r,57,(224*d)
   71  r,58,(1.0e11*d)
   72  r,59,8.33e8
   73  r,31,(25.0/g/1000)
   74  r,32,(4.0/g/1000)
   75  r,33,(43.0/g/1000)
   76  r,34,(40.0/g/1000)
   77  r,35,(75.0/g/1000)
   78  r,36,(5.0/g/1000)
   79  r,37,(6.0/g/1000)
   80  r,38,(105.0/g/1000)
   81  r,39,(10.0/g/1000)
   82  r,40,(12.0/g/1000)
   83  r,41,(31.5/g/1000)
   84  r,42,(230.0/g/1000)
   85  f=1/(12*12)
   86  l=1/(12**4)
   87  et,71,beam4                         ! for building
   88  mp,ex,71,(4.5e6*a)
   89  mp,nuxy,71,0.3
   90  mp,dens,71,0.0
   91  r,71,(157000*f),(1*1.18e+10), (1*1.03e+10),
   92  rmore,,,1.71,1.67
   93  r,72,(243000*f),  (1*1.43e+10), (1*1.1e+10),
   94  rmore,,,1.26,1.23
   95  r,73,(162000*f),  (1*1.25e+10), (1*1.6e+10),
   96  rmore,,,1.57,2.33
   97  r,74,(132000*f),(1*1.15e+10), (1*1.46e+10),
   98  rmore,,(1*2.64e10),1.59,2.26
   99  r,75, (92660*f),(1*5.656e+09),(1*2.151e+09),
  100  rmore,,,1.42,2.57
  101  r,76, (98710*f),(1*7.372e+09),(1*2.603e+09),
  102  rmore,,,1.51,2.88
  103  et,72,mass21,,,2
  104  r,77,(4474.0e3/g/1000)
  105  r,78,(4428.75e3/g/1000)
  106  r,79,(2650.75e3/g/1000)
  107  r,80,(3207.25e3/g/1000)
  108  r,81,(2847.75e3/g/1000)
  109  N,1,0,574,0
  110  N,2,0.396,574,-0.396
  111  N,3,1.574,574,-0.884
  112  N,4,3.79,574,-0.884
  113  N,5,4.905,574,-0.884
  114  N,9001,5.061,574.042,-0.884
  115  N,9002,5.175,574.156,-0.884
  116  N,6,5.217,574.312,-0.884
  117  N,7,5.217,574.5,-0.884
  118  N,9003,5.217,577.566,-0.884
  119  N,9004,5.217,580.632,-0.884
  120  N,9,5.217,583.698,-0.884
  121  N,10,5.217,584.229,-0.884
  122  N,9005,5.217,586.833,-0.884
  123  N,9006,5.217,589.438,-0.884
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124  N,11,5.217,592.042,-0.884
125  N,12,5.217,592.938,-0.884
126  N,9007,5.259,593.094,-0.884
127  N,9008,5.373,593.208,-0.884
128  N,13,5.53,593.25,-0.884
129  N,14,5.759,593.25,-0.884
130  N,15,6.259,593.25,-0.884
131  N,16,7.422,593.25,-0.884
132  N,17,7.643,593.25,-0.792
133  N,18,8.051,593.25,-0.384
134  N,19,8.629,593.25,0.194
135  N,20,10.158,593.25,1.723
136  N,21,10.379,593.562,1.944
137  N,9009,10.379,596.903,1.944
138  N,9010,10.379,600.243,1.944
139  N,22,10.379,603.583,1.944
140  N,23,10.379,604.291,1.944
141  N,24,10.379,605.655,1.944
142  N,9011,10.379,608.436,1.944
143  N,9012,10.379,611.218,1.944
144  N,25,10.379,613.999,1.944
145  N,26,10.379,614.791,1.944
146  N,9013,10.379,617.742,1.944
147  N,9014,10.379,620.693,1.944
148  N,27,10.379,623.645,1.944
149  N,28,10.379,624.749,1.944
150  N,29,10.379,626.415,1.944
151  N,9015,10.379,629.526,1.944
152  N,9016,10.379,632.638,1.944
153  N,30,10.379,635.749,1.944
154  N,31,10.379,635.832,1.944
155  N,32,10.379,636.053,2.035
156  N,35,10.379,636.144,2.256
157  N,37,10.379,636.144,2.959
158  N,9017,10.379,636.144,5.657
159  N,9018,10.379,636.144,8.355
160  N,38,10.379,636.144,11.053
161  N,39,10.379,636.144,11.918
162  N,9019,10.379,636.144,14.756
163  N,40,10.379,636.144,17.595
164  N,41,10.379,636.144,20.048
165  N,43,10.692,636.144,20.36
166  N,44,10.812,636.144,20.36
167  N,45,11.129,636.144,20.36
168  N,9020,13.507,636.144,20.36
169  N,46,15.885,636.144,20.36
170  N,47,16.135,636.144,20.36
171  N,48,16.385,636.144,20.36
172  N,49,16.801,636.144,20.36
173  N,50,17.218,636.144,20.36
174  N,51,17.343,636.144,20.36
175  N,52,17.801,636.144,20.36
176  N,53,19.822,636.144,20.36
177  N,54,22.801,636.144,20.36
178  N,55,22.864,636.144,20.36
179  N,56,23.176,636.144,20.673
180  N,57,23.176,636.144,20.86
181  N,58,23.176,636.144,21.027
182  N,59,23.176,636.144,21.277
183  N,60,23.176,636.144,21.527
184  N,61,23.176,636.144,21.777
185  N,62,23.176,636.144,21.798
186  N,63,22.864,636.144,22.11
187  N,64,21.947,636.144,22.11
188  N,65,21.53,636.144,22.11
189  N,66,21.113,636.144,22.11
190  N,67,20.759,636.144,22.11
191  N,68,20.509,636.144,22.11
192  N,69,20.259,636.144,22.11
193  N,70,20.071,636.144,22.11
194  N,71,19.654,636.144,22.11
195  N,72,19.237,636.144,22.11
196  N,73,17.383,636.144,22.11
197  N,74,17.175,636.144,22.11
198  N,75,16.758,636.144,22.11
199  N,76,16.341,636.144,22.11
200  N,77,16.133,636.144,22.11
201  N,78,15.799,636.144,22.11
202  N,9021,13.413,636.144,22.11
203  N,79,11.028,636.144,22.11
204  N,80,10.121,636.144,22.11
205  N,81,9.897,636.144,22.11
206  N,82,9.585,636.144,21.798
207  N,9022,9.585,636.144,19.663
208  N,83,9.585,636.144,17.527
209  N,84,9.585,636.144,17.333
210  N,85,9.585,636.144,17.194
211  N,86,9.231,635.791,16.694
212  N,87,8.76,635.319,16.694
213  N,47,16.135,636.144,20.36
214  N,91,16.135,636.394,20.36
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215  N,92,16.135,637.332,20.36
216  N,93,16.135,637.644,20.673
217  N,94,16.135,637.644,20.944
218  N,95,16.135,637.644,21.361
219  N,96,16.135,637.644,21.778
220  N,97,16.135,637.644,21.799
221  N,98,16.135,637.332,22.111
222  N,100,16.135,636.957,22.111
223  N,101,16.135,636.707,22.111
224  N,102,16.135,636.394,22.111
225  N,77,16.135,636.144,22.111
226  N,59,23.176,636.144,21.277
227  N,103,22.866,636.144,21.277
228  N,104,22.092,636.144,21.277
229  N,105,21.842,636.144,21.277
230  N,106,21.592,636.144,21.277
231  N,107,20.634,636.144,21.277
232  N,109,20.509,636.144,21.402
233  N,111,20.509,636.144,21.683
234  N,112,20.509,636.144,21.801
235  N,68,20.509,636.144,22.111
236  N,101,16.135,636.707,22.111
237  N,113,16.135,636.707,22.611
238  N,114,16.135,636.707,22.965
239  N,115,16.135,636.707,23.319
240  N,116,16.135,636.707,23.84
241  N,118,16.135,636.894,24.027
242  N,9023,16.135,639.274,24.027
243  N,120,16.135,641.654,24.027
244  N,122,16.135,641.841,24.214
245  N,124,16.135,641.841,24.567
246  N,125,16.135,641.841,25.411
247  N,127,16.135,641.654,25.598
248  N,129,16.135,639.508,25.598
249  N,9024,16.135,637.966,25.598
250  N,130,16.135,636.425,25.598
251  N,65,21.53,636.144,22.11
252  N,131,21.53,636.415,22.11
253  N,132,21.53,636.686,22.11
254  N,71,19.654,636.144,22.11
255  N,133,19.654,636.415,22.11
256  N,134,19.654,636.686,22.11
257  N,1001,0,574,0
258  N,1009,5.217,583.698,-0.884
259  N,1010,5.217,584.229,-0.884
260  N,1014,5.759,593.25,-0.884
261  N,1015,6.259,593.25,-0.884
262  N,1023,10.379,604.291,1.944
263  N,1028,10.379,624.749,1.944
264  N,1029,10.379,626.415,1.944
265  N,1037,10.379,636.144,2.959
266  N,1039,10.379,636.144,11.918
267  N,1044,10.812,636.144,20.36
268  N,1045,11.129,636.144,20.36
269  N,1052,17.801,636.144,20.36
270  N,1053,19.822,636.144,20.36
271  N,1054,22.801,636.144,20.36
272  N,1057,23.176,636.144,20.86
273  N,1061,23.176,636.144,21.777
274  N,1073,17.383,636.144,22.11
275  N,1078,15.799,636.144,22.11
276  N,1079,11.028,636.144,22.11
277  N,1087,8.76,635.319,16.694
278  N,1124,16.135,641.841,24.567
279  N,1129,16.135,639.508,25.598
280  N,1130,16.135,636.425,25.598
281  N,1131,21.53,636.415,22.11
282  N,1133,19.654,636.415,22.11
283  type,1
284  real,11
285  mat,1
286  e,1,2
287  type,2
288  real,211
289  e,2,3,1
290  type,1
291  real,11
292  e,3,4
293  e,4,5
294  type,2
295  real,21
296  e,5,9001,4
297  e,9001,9002,4
298  e,9002,6,4
299  type,1
300  real,11
301  e,6,7
302  e,7,9003
303  e,9003,9004
304  e,9004,9
305  e,9,10
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306 e,10,9005
307 e,9005,9006
308 e,9006,11
309 e,11,12
310 type,2
311 real,21
312 e,12,9007,11
313 e,9007,9008,11
314 e,9008,13,11
315 type,1
316 real,11
317 e,13,14
318 e,14,15
319 e,15,16
320 type,2
321 real,21
322 e,16,17,15
323 type,1
324 real,11
325 e,17,18
326 e,18,19
327 e,19,20
328 type,2
329 real,21
330 e,20,21,19
331 type,1
332 real,11
333 e,21,9009
334 e, 9009 , 9010
335 e, 9010 ,  22
336 e,  22 ,  23
337 e,  23 ,  24
338 e,  24 , 9011
339 e, 9011 , 9012
340 e, 9012 ,  25
341 e,  25 ,  26
342 e,  26 , 9013
343 e, 9013 , 9014
344 e, 9014 ,  27
345 e,  27 ,  28
346 e,  28 ,  29
347 e,  29 , 9015
348 e, 9015 , 9016
349 e, 9016 ,  30
350 e,  30 ,  31
351 type,2
352 real,21
353 e,31,32,30
354 e,32,35,30
355 type,1
356 real,11
357 e,35,37
358 e,  37 , 9017
359 e, 9017 , 9018
360 e, 9018 ,  38
361 e,  38 ,  39
362 e,  39 , 9019
363 e, 9019 ,  40
364 e,  40 ,  41
365 type,2
366 real,21
367 e,41,43,40
368 type,1
369 real,11
370 e,43,44
371 e,  44 ,  45
372 e,  45 , 9020
373 e, 9020 ,  46
374 e,  46 ,  47
375 e,  47 ,  48
376 type,1
377 real,11
378 mat,2
379 e,48,49
380 e,49,50
381 type,1
382 real,11
383 mat,1
384 e,50,51
385 e,  51 ,  52
386 e,  52 ,  53
387 e,  53 ,  54
388 e,  54 ,  55
389 type,2
390 real,21
391 e,55,56,54
392 type,1
393 real,11
394 e,56,57
395 e,  57 ,  58
396 e,  58 ,  59
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397 e,  59 ,  60
398 e,  60 ,  61
399 e,  61 ,  62
400 type,2
401 real,21
402 e,62,63,61
403 type,1
404 real,11
405 e,63,64
406 type,1
407 real,11
408 mat,2
409 e,64,65
410 e,65,66
411 type,1
412 real,11
413 mat,1
414 e,66,67
415 e,67,68
416 e,68,69
417 e,69,70
418 type,1
419 real,11
420 mat,2
421 e,70,71
422 e,71,72
423 type,1
424 real,11
425 mat,1
426 e,72,73
427 e,73,74
428 mat,2
429 e,74,75
430 e,75,76
431 mat,1
432 e,76,77
433 e,  77 ,  78
434 e,  78 , 9021
435 e, 9021 ,  79
436 e,  79 ,  80
437 e,  80 ,  81
438 type,2
439 real,21
440 e,81,82,80
441 type,1
442 real,11
443 e,82,9022
444 e, 9022 ,  83
445 e,  83 ,  84
446 e,  84 ,  85
447 type,2
448 real,212
449 e,85,86,84
450 type,1
451 real,11
452 e,86,87
453 e,47,91
454 e,91,92
455 type,2
456 real,213
457 e,92,93,91
458 type,1
459 real,11
460 e,93,94
461 mat,2
462 e,94,95
463 e,95,96
464 mat,1
465 e,96,97
466 type,2
467 real,21
468 e,97,98,96
469 type,1
470 real,11
471 e,98,100
472 e,  100 ,  101
473 e,  101 ,  102
474 e,102,77
475 type,1
476 mat,3
477 real,13
478 e,59,103
479 e,103,104
480 mat,4
481 e,104,105
482 e,105,106
483 mat,3
484 e,106,107
485 type,2
486 mat,3
487 real,23
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mat,3
real,13
e,109,111
e,111,112
type,1
mat,5
real,15
e,112,68
e,101,113
mat,6
e,113,114
e,114,115
mat,5
e,115,116
type,2
real,25
e,116,118,115
type,1
mat,5
real,15
e,118,9023
e,9023,120
type,2
real,25
e,120,122,9023
type,1
mat,5
real,15
e,122,124
e,124,125
type,2
real,25
e,125,127,124
type,1
mat,5
real,15
e,127,129
e,129,9024
e,9024,130
mat,1
type,1
real,11
e,65,131
e,131,132
e,71,133
e,133,134
real,56
type,3
e,1,1001
type,4
e,1,1001
type,5
e,1,1001
real,59
type,6
e,1,1001
type,7
e,1,1001
type,8
e,1,1001
real,51
type,3
e,9,1009
type,5
e,10,1010
type,4
e,15,1015
real,52
type,4
e,14,1014
real,51
type,3
e,23,1023
type,5
e,28,1028
real,53
type,4
e,37,1037
type,3
e,39,1039
real,51
type,4
e,44,1044
type,5
e,45,1045
real,54
type,4
e,53,1053
real,55
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type,5
e,129,1129
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type,5
e,54,1054
type,3
e,57,1057
real,56
type,4
e,78,1078
type,5
real,51
e,73,1073
real,57
type,4
e,61,1061
real,51
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e,131,1131
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type,3
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type,5
e,133,1133
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type,4
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type,5
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type,7
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type,8
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type,30
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e,114
e,124
e,129
real,32
e,14
e,79
real,33
e,37
real,34
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real,35
e,49
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real,36
e,53
real,37
e,61
real,38
e,65
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real,39
e,78
real,40
e,105
real,41
e,131
e,133
real,42
e,132
e,134
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n, 303 ,0,        571 ,0,
n, 304 ,0,        574 ,0,
n, 305 ,0, 577.83333 ,0,
n, 306 ,0,        590 ,0,
n, 307 ,0,      595.5 ,0,
n, 308 ,0,        604 ,0,
n, 309 ,0,      609.5 ,0,
n, 310 ,0,      624.5 ,0,
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n, 312 ,0, 638.33333 ,0,
n, 313 ,0,        647 ,0,
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mat,71
real,71
e,301,302
e,302,303
e,303,304
real,72
e,304,305
real,73
e,305,306
real,74
e,306,307
e,307,308
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e,308,309
e,309,310
real,76
e,310,311
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e,312,313
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e,308
real,80
e,310
real,81
e,313
cp,1,ux,304,1001
cp,2,ux,309,1087
cp,3,ux,312,1037,1039,1044,1045,1053,1079
cp,3,ux,312,1124,1129,1052,1054,1057,1078
cp,3,ux,312,1073,1061,1131,1133,1130
cp,4,rx,306,1009,1010
cp,5,ux,307,1015,1014
cp,6,ux,308,1023
cp,7,ux,310,1028
cplgen,1,uy,uz,rotx,roty,rotz
cplgen,2,uy,uz,rotx,roty,rotz
cplgen,3,uy,uz,rotx,roty,rotz
cplgen,4,uy,uz,rotx,roty,rotz
cplgen,5,uy,uz,rotx,roty,rotz
cplgen,6,uy,uz,rotx,roty,rotz
cplgen,7,uy,uz,rotx,roty,rotz
d,301,all
lumpm,on
save
finish

C*** Time History analysis for earthquake record (El Centro)
/output,pb2ecx0
/solu
antype,trans
trnopt,reduced
m,1,ux,134,,uy,uz
m,9001,ux,9024,,uy,uz
m,304,ux,310,2,uy,uz
m,313,ux,,,uy,uz
ALPHAD,0.7941209
BETAD,0.000466233099
DELTIM,0.001
T = 0.0
!MACRO TO GET ACCELERATION INPUT
*CREATE,GRNDXITN
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  TIMINT, ON
  T = T + 0.02
  TIME,T
  ACEL, (ARG1/12)
   OUTRES,NSOL,LAST
  SOLVE
*END
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*USE, GRNDXITN,       -6.6202226
*USE, GRNDXITN,       -0.8988062
*USE, GRNDXITN,       -1.1569724
*USE, GRNDXITN,       -1.3951721
*USE, GRNDXITN,       -1.6138562
*USE, GRNDXITN,       -1.8134755
*USE, GRNDXITN,       -1.9944810
*USE, GRNDXITN,       -2.1573234
*USE, GRNDXITN,       -2.3024536
*USE, GRNDXITN,       -2.4303226
*USE, GRNDXITN,       -2.5413811
*USE, GRNDXITN,       -2.6360800
*USE, GRNDXITN,       -2.7148702
*USE, GRNDXITN,       -2.7782025
*USE, GRNDXITN,       -2.8265279
*USE, GRNDXITN,       -2.8602972
*USE, GRNDXITN,       -2.8799611
*USE, GRNDXITN,       -2.8859707
*USE, GRNDXITN,       -2.8787768
*USE, GRNDXITN,       -2.8588302
*USE, GRNDXITN,       -2.8265818
*USE, GRNDXITN,       -2.7824824
*USE, GRNDXITN,       -2.7269830
*USE, GRNDXITN,       -2.6605344
*USE, GRNDXITN,       -2.5835874
*USE, GRNDXITN,       -2.4965929
*USE, GRNDXITN,       -2.4000018
*USE, GRNDXITN,       -2.2942650
*USE, GRNDXITN,       -2.1798332
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*USE, GRNDXITN,       -1.7888773
*USE, GRNDXITN,       -1.6441746
*USE, GRNDXITN,       -1.4930313
*USE, GRNDXITN,       -1.3358983
*USE, GRNDXITN,       -1.1732265
*USE, GRNDXITN,       -1.0054667
*USE, GRNDXITN,       -0.8330698
*USE, GRNDXITN,       -0.6564866
*USE, GRNDXITN,       -0.4761680
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*USE, GRNDXITN,       -0.1061282
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*USE, GRNDXITN,        4.2588148
*USE, GRNDXITN,        4.3513341
*USE, GRNDXITN,        4.4340628
*USE, GRNDXITN,        4.5065502
*USE, GRNDXITN,        4.5683453
*USE, GRNDXITN,        4.6189973
*USE, GRNDXITN,        4.6580553
*USE, GRNDXITN,        4.6850685
*USE, GRNDXITN,        4.6995859
*USE, GRNDXITN,        4.7011569
*USE, GRNDXITN,        4.6893303
*USE, GRNDXITN,        4.6636555
*USE, GRNDXITN,        4.6236816
*USE, GRNDXITN,        4.5689576
*USE, GRNDXITN,        4.4990327
*USE, GRNDXITN,        4.4134561
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854  *USE, GRNDXITN,        4.0583071
855  *USE, GRNDXITN,        3.9056149
856  *USE, GRNDXITN,        3.7350166
857  *USE, GRNDXITN,        3.5460614
858  *USE, GRNDXITN,        3.3382983
859  *USE, GRNDXITN,        3.1112767
860  *USE, GRNDXITN,        2.8645455
861  *USE, GRNDXITN,        2.5976539
862  *USE, GRNDXITN,        2.3101510
863  *USE, GRNDXITN,        2.0015861
864  *USE, GRNDXITN,        1.6711081
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3703 esol,3,144,1,f,y
3704 esol,4,145,1,f,z
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3706 esol,6,147,1,m,y
3707 esol,7,148,1,m,z
3708 esol,8,173,87,f,x
3709 esol,9,174,87,f,y
3710 esol,10,175,87,f,z
3711 esol,11,176,87,m,x
3712 esol,12,177,87,m,y
3713 esol,13,178,87,m,z
3714 esol,14,179,130,f,x
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3717 esol,17,182,130,m,x
3718 esol,18,183,130,m,y
3719 esol,19,184,130,m,z
3720 esol,20,149,9,f,x
3721 esol,21,150,10,f,z
3722 esol,22,151,15,f,y
3723 esol,23,153,23,f,x
3724 esol,24,154,28,f,z
3725 esol,25,155,37,f,y
3726 esol,26,156,39,f,x
3727 esol,27,157,44,f,y
3728 esol,28,158,45,f,z
3729 esol,29,161,124,f,x
3730 esol,30,162,129,f,z
3731 esol,31,163,52,f,y
3732 esol,32,164,54,f,z
3733 esol,33,165,57,f,x
3734 esol,34,167,73,f,z
3735 esol,35,169,131,f,x
3736 esol,36,170,131,f,z
3737 esol,37,171,133,f,x
3738 esol,38,172,133,f,z
3739 esol,39,152,14,f,y
3740 esol,40,159,53,f,y
3741 esol,41,168,61,f,y
3742 esol,42,166,78,f,y
3743 esol,43,160,79,f,y
3744 extrem,2,43
3745 save
3746 finish
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3749 expass,on
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3751 outpr,,none
3752 solve
3753 save
3754 finish
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3756 /post26
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3760 esol,4,145,1,f,z
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3762 esol,6,147,1,m,y
3763 esol,7,148,1,m,z
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esol ,  9 ,  12 ,  10 , f , z
esol , 10 ,  12 ,  10 , m , x
esol , 11 ,  12 ,  10 , m , z
esol , 12 ,  22 ,  15 , f , z
esol , 13 ,  22 ,  15 , m , z
esol , 14 ,  32 ,  23 , m , x
esol , 15 ,  32 ,  23 , m , z
esol , 16 ,  48 ,  35 , f , y
esol , 17 ,  52 ,  39 , f , x
esol , 18 ,  52 ,  39 , m , y
esol , 19 ,  58 ,  45 , f , z
esol , 20 ,  58 ,  45 , m , z
esol , 21 ,  71 ,  56 , f , x
esol , 22 ,  86 ,  72 , f , x
esol , 23 , 107 ,  93 , m , x
esol , 24 , 114 , 102 , f , x
esol , 25 , 114 , 102 , f , z
esol , 26 , 117 , 103 , f , x
esol , 27 , 123 , 112 , m , y
esol , 28 , 125 , 101 , f , x
esol , 29 , 125 , 101 , m , y
esol , 30 , 139 ,  65 , f , x
extrem,2,30
save
finish

/solu
expass,on
numexp,100,0.6,0.7
```



```
outpr,,none
solve
save
finish

/post26
numvar,30
esol ,  2 ,   1 ,   1 , f , x
esol ,  3 ,   1 ,   1 , f , y
esol ,  4 ,   1 ,   1 , m , x
esol ,  5 ,   1 ,   1 , m , y
esol ,  6 ,   8 ,   6 , f , x
esol ,  7 ,   8 ,   6 , m , z
esol ,  8 ,  12 ,  10 , f , x
esol ,  9 ,  12 ,  10 , f , z
esol , 10 ,  12 ,  10 , m , x
esol , 11 ,  12 ,  10 , m , z
esol , 12 ,  22 ,  15 , f , z
esol , 13 ,  22 ,  15 , m , z
esol , 14 ,  32 ,  23 , m , x
esol , 15 ,  32 ,  23 , m , z
esol , 16 ,  48 ,  35 , f , y
esol , 17 ,  52 ,  39 , f , x
esol , 18 ,  52 ,  39 , m , y
esol , 19 ,  58 ,  45 , f , z
esol , 20 ,  58 ,  45 , m , z
esol , 21 ,  71 ,  56 , f , x
esol , 22 ,  86 ,  72 , f , x
esol , 23 , 107 ,  93 , m , x
esol , 24 , 114 , 102 , f , x
esol , 25 , 114 , 102 , f , z
esol , 26 , 117 , 103 , f , x
esol , 27 , 123 , 112 , m , y
esol , 28 , 125 , 101 , f , x
esol , 29 , 125 , 101 , m , y
esol , 30 , 139 ,  65 , f , x
extrem,2,30
save
finish

/solu
expass,on
numexp,100,0.7,0.8
outpr,,none
solve
save
finish

/post26
numvar,30
esol ,  2 ,   1 ,   1 , f , x
esol ,  3 ,   1 ,   1 , f , y
esol ,  4 ,   1 ,   1 , m , x
esol ,  5 ,   1 ,   1 , m , y
esol ,  6 ,   8 ,   6 , f , x
esol ,  7 ,   8 ,   6 , m , z
esol ,  8 ,  12 ,  10 , f , x
esol ,  9 ,  12 ,  10 , f , z
esol , 10 ,  12 ,  10 , m , x
esol , 11 ,  12 ,  10 , m , z
esol , 12 ,  22 ,  15 , f , z
esol , 13 ,  22 ,  15 , m , z
esol , 14 ,  32 ,  23 , m , x
esol , 15 ,  32 ,  23 , m , z
esol , 16 ,  48 ,  35 , f , y
esol , 17 ,  52 ,  39 , f , x
esol , 18 ,  52 ,  39 , m , y
esol , 19 ,  58 ,  45 , f , z
esol , 20 ,  58 ,  45 , m , z
esol , 21 ,  71 ,  56 , f , x
esol , 22 ,  86 ,  72 , f , x
esol , 23 , 107 ,  93 , m , x
esol , 24 , 114 , 102 , f , x
esol , 25 , 114 , 102 , f , z
esol , 26 , 117 , 103 , f , x
esol , 27 , 123 , 112 , m , y
esol , 28 , 125 , 101 , f , x
esol , 25 , 125 , 101 , m , y
esol , 30 , 139 ,  65 , f , x
extrem,2,30
save
finish

/solu
expass,on
numexp,100,0.8,0.9
outpr,,none
solve
save
finish
```

```
 4492  /post26
 4493  numvar,30
 4494  esol ,  2 ,   1 ,   1 , f , x
 4495  esol ,  3 ,   1 ,   1 , f , y
 4496  esol ,  4 ,   1 ,   1 , m , x
 4497  esol ,  5 ,   1 ,   1 , m , y
 4498  esol ,  6 ,   8 ,   6 , f , x
 4499  esol ,  7 ,   8 ,   6 , m , z
 4500  esol ,  8 ,  12 ,  10 , f , x
 4501  esol ,  9 ,  12 ,  10 , f , z
 4502  esol , 10 ,  12 ,  10 , m , x
 4503  esol , 11 ,  12 ,  10 , m , z
 4504  esol , 12 ,  22 ,  15 , f , z
 4505  esol , 13 ,  22 ,  15 , m , z
 4506  esol , 14 ,  32 ,  23 , m , x
 4507  esol , 15 ,  32 ,  23 , m , z
 4508  esol , 16 ,  48 ,  35 , f , y
 4509  esol , 17 ,  52 ,  39 , f , x
 4510  esol , 18 ,  52 ,  39 , m , y
 4511  esol , 19 ,  58 ,  45 , f , z
 4512  esol , 20 ,  58 ,  45 , m , z
 4513  esol , 21 ,  71 ,  56 , f , x
 4514  esol , 22 ,  86 ,  72 , f , x
 4515  esol , 23 , 107 ,  93 , m , x
 4516  esol , 24 , 114 , 102 , f , x
 4517  esol , 25 , 114 , 102 , f , z
 4518  esol , 26 , 117 , 103 , f , x
 4519  esol , 27 , 123 , 112 , m , y
 4520  esol , 28 , 125 , 101 , f , x
 4521  esol , 29 , 125 , 101 , m , y
 4522  esol , 30 , 139 ,  65 , f , x
 4523  extrem,2,30
 4524  save
 4525  finish
 4526
 4527  /solu
 4528  expass,on
 4529  numexp,100,0.9,1.0
 4530  outpr,,none
 4531  solve
 4532  save
 4533  finish
 4534
 4535  /post26
 4536  numvar,30
 4537  esol ,  2 ,   1 ,   1 , f , x
 4538  esol ,  3 ,   1 ,   1 , f , y
 4539  esol ,  4 ,   1 ,   1 , m , x
 4540  esol ,  5 ,   1 ,   1 , m , y
 4541  esol ,  6 ,   8 ,   6 , f , x
 4542  esol ,  7 ,   8 ,   6 , m , z
 4543  esol ,  8 ,  12 ,  10 , f , x
 4544  esol ,  9 ,  12 ,  10 , f , z
 4545  esol , 10 ,  12 ,  10 , m , x
 4546  esol , 11 ,  12 ,  10 , m , z
 4547  esol , 12 ,  22 ,  15 , f , z
 4548  esol , 13 ,  22 ,  15 , m , z
 4549  esol , 14 ,  32 ,  23 , m , x
 4550  esol , 15 ,  32 ,  23 , m , z
 4551  esol , 16 ,  48 ,  35 , f , y
 4552  esol , 17 ,  52 ,  39 , f , x
 4553  esol , 18 ,  52 ,  39 , m , y
 4554  esol , 19 ,  58 ,  45 , f , z
 4555  esol , 20 ,  58 ,  45 , m , z
 4556  esol , 21 ,  71 ,  56 , f , x
 4557  esol , 22 ,  86 ,  72 , f , x
 4558  esol , 23 , 107 ,  93 , m , x
 4559  esol , 24 , 114 , 102 , f , x
 4560  esol , 25 , 114 , 102 , f , z
 4561  esol , 26 , 117 , 103 , f , x
 4562  esol , 27 , 123 , 112 , m , y
 4563  esol , 28 , 125 , 101 , f , x
 4564  esol , 29 , 125 , 101 , m , y
 4565  esol , 30 , 139 ,  65 , f , x
 4566  extrem,2,30
 4567  save
 4568  finish

 CURRENT JOBNAME REDEFINED AS pb2ecx

 BRITISH FEET UNITS SPECIFIED
  LENGTH      = FEET(FT)
  MASS        = SLUGS
  TIME        = SECONDS(SEC)
  TEMPERATURE = FAHRENHEIT
  CURRENT     = AMPS
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
 40416-2          VERSION=SUN4SPARC     21:50:30  OCT 09, 1995 CP=      5.760
 FOR SUPPORT CALL                  PHONE                      FAX
```



```
**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**

        ***** ANSYS ANALYSIS DEFINITION (PREP7) *****

PARAMETER G        =     32.20000

PARAMETER A        =    0.1440000

PARAMETER B        =     1.728000

PARAMETER C        =    0.1938724E-02

PARAMETER D        =    0.1200000E-01

PARAMETER R1       =    0.2395833

PARAMETER R3       =    0.7000000E-01

PARAMETER R5       =    0.1583333

PARAMETER T1       =    0.3125000E-01

PARAMETER T3       =    0.1566667E-01

PARAMETER T5       =    0.2341667E-01

PARAMETER RR11     =     1.667000

PARAMETER RR1      =    0.3125000

PARAMETER RR12     =    0.5000000

PARAMETER RR13     =    0.3130000

PARAMETER RR3      =    0.1250000

PARAMETER RR5      =    0.1870000

TITLE=
 Time-history analysis of coupled system (presurizer spray line)

MATERIAL    1          EX   =    4075200.

MATERIAL    1          NUXY =   0.3000000

MATERIAL    1          DENS =   0.2183911E-01

MATERIAL    2          EX   =    4075200.

MATERIAL    2          NUXY =   0.3000000

MATERIAL    2          DENS =   0.2354123E-01

MATERIAL    3          EX   =    4075200.

MATERIAL    3          NUXY =   0.3000000

MATERIAL    3          DENS =   0.4963217E-01

MATERIAL    4          EX   =    4075200.

MATERIAL    4          NUXY =   0.3000000

MATERIAL    4          DENS =   0.3140205

MATERIAL    5          EX   =    4075200.

MATERIAL    5          NUXY =   0.3000000

MATERIAL    5          DENS =   0.2679976E-01

MATERIAL    6          EX   =    4075200.

MATERIAL    6          NUXY =   0.3000000

MATERIAL    6          DENS =   0.1386141

ELEMENT TYPE    1 IS PIPE16       ELASTIC STRAIGHT PIPE
 KEYOPT(1-12)=    0  0  0    0  0  1    0  0  0    0  0  0

CURRENT NODAL DOF SET IS  UX    UY    UZ    ROTX  ROTY  ROTZ
 THREE-DIMENSIONAL MODEL

ELEMENT TYPE    2 IS PIPE18       ELASTIC CURVED PIPE (ELBOW)
 KEYOPT(1-12)=    0  0  0    0  0  2    0  0  0    0  0  0

CURRENT NODAL DOF SET IS  UX    UY    UZ    ROTX  ROTY  ROTZ
```

```
 THREE-DIMENSIONAL MODEL

ELEMENT TYPE     3 IS COMBIN14      SPRING-DAMPER
 KEYOPT(1-12)=    0  1  0    0  0  0    0  0  0    0  0  0

CURRENT NODAL DOF SET IS  UX    UY    UZ    ROTX  ROTY  ROTZ
 THREE-DIMENSIONAL MODEL

ELEMENT TYPE     4 IS COMBIN14      SPRING-DAMPER
 KEYOPT(1-12)=    0  2  0    0  0  0    0  0  0    0  0  0

CURRENT NODAL DOF SET IS  UX    UY    UZ    ROTX  ROTY  ROTZ
 THREE-DIMENSIONAL MODEL

ELEMENT TYPE     5 IS COMBIN14      SPRING-DAMPER
 KEYOPT(1-12)=    0  3  0    0  0  0    0  0  0    0  0  0

CURRENT NODAL DOF SET IS  UX    UY    UZ    ROTX  ROTY  ROTZ
 THREE-DIMENSIONAL MODEL

ELEMENT TYPE     6 IS COMBIN14      SPRING-DAMPER
 KEYOPT(1-12)=    0  4  0    0  0  0    0  0  0    0  0  0

CURRENT NODAL DOF SET IS  UX    UY    UZ    ROTX  ROTY  ROTZ
 THREE-DIMENSIONAL MODEL

ELEMENT TYPE     7 IS COMBIN14      SPRING-DAMPER
 KEYOPT(1-12)=    0  5  0    0  0  0    0  0  0    0  0  0

CURRENT NODAL DOF SET IS  UX    UY    UZ    ROTX  ROTY  ROTZ
 THREE-DIMENSIONAL MODEL

ELEMENT TYPE     8 IS COMBIN14      SPRING-DAMPER
 KEYOPT(1-12)=    0  6  0    0  0  0    0  0  0    0  0  0

CURRENT NODAL DOF SET IS  UX    UY    UZ    ROTX  ROTY  ROTZ
 THREE-DIMENSIONAL MODEL

ELEMENT TYPE    36 IS MASS21        STRUCTURAL MASS
 KEYOPT(1-12)=    0  0  2    0  0  0    0  0  0    0  0  0

CURRENT NODAL DOF SET IS  UX    UY    UZ    ROTX  ROTY  ROTZ
 THREE-DIMENSIONAL MODEL

REAL CONSTANT SET      11  ITEMS    1 TO    6
  0.23958      0.31250E-01       0.              0.              0.      0.19387E-02

REAL CONSTANT SET     211  ITEMS    1 TO    6
  0.23958      0.31250E-01   1.6670              0.              0.              0.

REAL CONSTANT SET     211  ITEMS    7 TO   12
  0.19387E-02       0.              0.              0.              0.              0.

REAL CONSTANT SET      21  ITEMS    1 TO    6
  0.23958      0.31250E-01   0.31250             0.              0.              0.

REAL CONSTANT SET      21  ITEMS    7 TO   12
  0.19387E-02       0.              0.              0.              0.              0.

REAL CONSTANT SET     212  ITEMS    1 TO    6
  0.23958      0.31250E-01   0.50000             0.              0.              0.

REAL CONSTANT SET     212  ITEMS    7 TO   12
  0.19387E-02       0.              0.              0.              0.              0.

REAL CONSTANT SET     213  ITEMS    1 TO    6
  0.23958      0.31250E-01   0.31300             0.              0.              0.

REAL CONSTANT SET     213  ITEMS    7 TO   12
  0.19387E-02       0.              0.              0.              0.              0.

REAL CONSTANT SET      13  ITEMS    1 TO    6
  0.70000E-01  0.15667E-01       0.              0.              0.      0.19387E-02

REAL CONSTANT SET      23  ITEMS    1 TO    6
  0.70000E-01  0.15667E-01   0.12500             0.              0.              0.

REAL CONSTANT SET      23  ITEMS    7 TO   12
  0.19387E-02       0.              0.              0.              0.              0.

REAL CONSTANT SET      15  ITEMS    1 TO    6
  0.15833      0.23417E-01       0.              0.              0.      0.19387E-02

REAL CONSTANT SET      25  ITEMS    1 TO    6
  0.15833      0.23417E-01   0.18700             0.              0.              0.

REAL CONSTANT SET      25  ITEMS    7 TO   12
  0.19387E-02       0.              0.              0.              0.              0.

REAL CONSTANT SET      51  ITEMS    1 TO    6
   924.00           0.              0.              0.              0.              0.
```



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REAL CONSTANT SET      52  ITEMS    1 TO    6
  0.67200           0.              0.              0.              0.              0.

REAL CONSTANT SET      53  ITEMS    1 TO    6
   2544.0           0.              0.              0.              0.              0.

REAL CONSTANT SET      54  ITEMS    1 TO    6
   1.5120           0.              0.              0.              0.              0.

REAL CONSTANT SET      55  ITEMS    1 TO    6
  0.42000           0.              0.              0.              0.              0.

REAL CONSTANT SET      56  ITEMS    1 TO    6
   4.8000           0.              0.              0.              0.              0.

REAL CONSTANT SET      57  ITEMS    1 TO    6
   2.6880           0.              0.              0.              0.              0.

REAL CONSTANT SET      58  ITEMS    1 TO    6
 0.12000E+10        0.              0.              0.              0.              0.

REAL CONSTANT SET      59  ITEMS    1 TO    6
 0.83300E+09        0.              0.              0.              0.              0.

REAL CONSTANT SET      31  ITEMS    1 TO    6
 0.77640E-03        0.              0.              0.              0.              0.

REAL CONSTANT SET      32  ITEMS    1 TO    6
 0.12422E-03        0.              0.              0.              0.              0.

REAL CONSTANT SET      33  ITEMS    1 TO    6
 0.13354E-02        0.              0.              0.              0.              0.

REAL CONSTANT SET      34  ITEMS    1 TO    6
 0.12422E-02        0.              0.              0.              0.              0.

REAL CONSTANT SET      35  ITEMS    1 TO    6
 0.23292E-02        0.              0.              0.              0.              0.

REAL CONSTANT SET      36  ITEMS    1 TO    6
 0.15528E-03        0.              0.              0.              0.              0.

REAL CONSTANT SET      37  ITEMS    1 TO    6
 0.18634E-03        0.              0.              0.              0.              0.

REAL CONSTANT SET      38  ITEMS    1 TO    6
 0.32609E-02        0.              0.              0.              0.              0.

REAL CONSTANT SET      39  ITEMS    1 TO    6
 0.31056E-03        0.              0.              0.              0.              0.

REAL CONSTANT SET      40  ITEMS    1 TO    6
 0.37267E-03        0.              0.              0.              0.              0.

REAL CONSTANT SET      41  ITEMS    1 TO    6
 0.97826E-03        0.              0.              0.              0.              0.

REAL CONSTANT SET      42  ITEMS    1 TO    6
 0.71429E-02        0.              0.              0.              0.              0.

PARAMETER F         =    0.6944444E-02

PARAMETER I         =    0.4822531E-04

ELEMENT TYPE    71 IS BEAM4         3-D ELASTIC BEAM
 KEYOPT(1-12)=    0  0  0    0  0  0    0  0  0    0  0  0

CURRENT NODAL DOF SET IS  UX    UY    UZ    ROTX  ROTY  ROTZ
 THREE-DIMENSIONAL MODEL

MATERIAL   71          EX   =    648000.0

MATERIAL   71          NUXY =    0.3000000

MATERIAL   71          DENS =           0.

REAL CONSTANT SET      71  ITEMS    1 TO    6
   1090.3      0.56906E+06  0.49672E+06       0.              0.              0.

REAL CONSTANT SET      71  ITEMS    7 TO   12
      0.              0.          1.7100          1.6700          0.              0.

REAL CONSTANT SET      72  ITEMS    1 TO    6
   1687.5      0.68962E+06  0.53048E+06       0.              0.              0.

REAL CONSTANT SET      72  ITEMS    7 TO   12
      0.              0.          1.2600          1.2300          0.              0.

REAL CONSTANT SET      73  ITEMS    1 TO    6
   1125.0      0.60282E+06  0.77160E+06       0.              0.              0.
```

```
 REAL CONSTANT SET      73  ITEMS    7 TO   12
       0.             0.          1.5700          2.3300          0.              0.

 REAL CONSTANT SET      74  ITEMS    1 TO    6
     916.67         0.55459E+06  0.71373E+06        0.              0.              0.

 REAL CONSTANT SET      74  ITEMS    7 TO   12
       0.          0.12731E+07    1.5900          2.2600          0.              0.

 REAL CONSTANT SET      75  ITEMS    1 TO    6
     643.47         0.27276E+06  0.10373E+06        0.              0.              0.

 REAL CONSTANT SET      75  ITEMS    7 TO   12
       0.             0.          1.4200          2.5700          0.              0.

 REAL CONSTANT SET      76  ITEMS    1 TO    6
     685.49         0.35552E+06  0.12553E+06        0.              0.              0.

 REAL CONSTANT SET      76  ITEMS    7 TO   12
       0.             0.          1.5100          2.8800          0.              0.

 ELEMENT TYPE    72 IS MASS21        STRUCTURAL MASS
  KEYOPT(1-12)=    0  0  2    0  0  0    0  0  0    0  0  0

 CURRENT NODAL DOF SET IS  UX    UY    UZ    ROTX  ROTY  ROTZ
  THREE-DIMENSIONAL MODEL

 REAL CONSTANT SET      77  ITEMS    1 TO    6
     138.94         0.              0.              0.              0.              0.

 REAL CONSTANT SET      78  ITEMS    1 TO    6
     137.54         0.              0.              0.              0.              0.

 REAL CONSTANT SET      79  ITEMS    1 TO    6
     82.321         0.              0.              0.              0.              0.

 REAL CONSTANT SET      80  ITEMS    1 TO    6
     99.604         0.              0.              0.              0.              0.

 REAL CONSTANT SET      81  ITEMS    1 TO    6
     80.439         0.              0.              0.              0.              0.

 NODE        1  KCS=   0  X,Y,Z=        0.          574.00           0.
 NODE        2  KCS=   0  X,Y,Z=  0.39600          574.00     -0.39600
 NODE        3  KCS=   0  X,Y,Z=   1.5740          574.00     -0.88400
 NODE        4  KCS=   0  X,Y,Z=   3.7900          574.00     -0.88400
 NODE        5  KCS=   0  X,Y,Z=   4.9050          574.00     -0.88400
 NODE     9001  KCS=   0  X,Y,Z=   5.0610          574.04     -0.88400
 NODE     9002  KCS=   0  X,Y,Z=   5.1750          574.16     -0.88400
 NODE        6  KCS=   0  X,Y,Z=   5.2170          574.31     -0.88400
 NODE        7  KCS=   0  X,Y,Z=   5.2170          574.50     -0.88400
 NODE     9003  KCS=   0  X,Y,Z=   5.2170          577.57     -0.88400
 NODE     9004  KCS=   0  X,Y,Z=   5.2170          580.63     -0.88400
 NODE        9  KCS=   0  X,Y,Z=   5.2170          583.70     -0.88400
 NODE       10  KCS=   0  X,Y,Z=   5.2170          584.23     -0.88400
 NODE     9005  KCS=   0  X,Y,Z=   5.2170          586.83     -0.88400
 NODE     9006  KCS=   0  X,Y,Z=   5.2170          589.44     -0.88400
 NODE       11  KCS=   0  X,Y,Z=   5.2170          592.04     -0.88400
 NODE       12  KCS=   0  X,Y,Z=   5.2170          592.94     -0.88400
 NODE     9007  KCS=   0  X,Y,Z=   5.2590          593.09     -0.88400
 NODE     9008  KCS=   0  X,Y,Z=   5.3730          593.21     -0.88400
 NODE       13  KCS=   0  X,Y,Z=   5.5300          593.25     -0.88400
 NODE       14  KCS=   0  X,Y,Z=   5.7590          593.25     -0.88400
 NODE       15  KCS=   0  X,Y,Z=   6.2590          593.25     -0.88400
 NODE       16  KCS=   0  X,Y,Z=   7.4220          593.25     -0.88400
 NODE       17  KCS=   0  X,Y,Z=   7.6430          593.25     -0.79200
```



```
 NODE       18  KCS=   0  X,Y,Z=   8.0510          593.25     -0.38400
 NODE       19  KCS=   0  X,Y,Z=   8.6290          593.25      0.19400
 NODE       20  KCS=   0  X,Y,Z=   10.158          593.25       1.7230
 NODE       21  KCS=   0  X,Y,Z=   10.379          593.56       1.9440
 NODE     9009  KCS=   0  X,Y,Z=   10.379          596.90       1.9440
 NODE     9010  KCS=   0  X,Y,Z=   10.379          600.24       1.9440
 NODE       22  KCS=   0  X,Y,Z=   10.379          603.58       1.9440
 NODE       23  KCS=   0  X,Y,Z=   10.379          604.29       1.9440
 NODE       24  KCS=   0  X,Y,Z=   10.379          605.65       1.9440
 NODE     9011  KCS=   0  X,Y,Z=   10.379          608.44       1.9440
 NODE     9012  KCS=   0  X,Y,Z=   10.379          611.22       1.9440
 NODE       25  KCS=   0  X,Y,Z=   10.379          614.00       1.9440
 NODE       26  KCS=   0  X,Y,Z=   10.379          614.79       1.9440
 NODE     9013  KCS=   0  X,Y,Z=   10.379          617.74       1.9440
 NODE     9014  KCS=   0  X,Y,Z=   10.379          620.69       1.9440
 NODE       27  KCS=   0  X,Y,Z=   10.379          623.64       1.9440
 NODE       28  KCS=   0  X,Y,Z=   10.379          624.75       1.9440
 NODE       29  KCS=   0  X,Y,Z=   10.379          626.41       1.9440
 NODE     9015  KCS=   0  X,Y,Z=   10.379          629.53       1.9440
 NODE     9016  KCS=   0  X,Y,Z=   10.379          632.64       1.9440
 NODE       30  KCS=   0  X,Y,Z=   10.379          635.75       1.9440
 NODE       31  KCS=   0  X,Y,Z=   10.379          635.83       1.9440
 NODE       32  KCS=   0  X,Y,Z=   10.379          636.05       2.0350
 NODE       35  KCS=   0  X,Y,Z=   10.379          636.14       2.2560
 NODE       37  KCS=   0  X,Y,Z=   10.379          636.14       2.9590
 NODE     9017  KCS=   0  X,Y,Z=   10.379          636.14       5.6570
 NODE     9018  KCS=   0  X,Y,Z=   10.379          636.14       8.3550
 NODE       38  KCS=   0  X,Y,Z=   10.379          636.14       11.053
 NODE       39  KCS=   0  X,Y,Z=   10.379          636.14       11.918
 NODE     9019  KCS=   0  X,Y,Z=   10.379          636.14       14.756
 NODE       40  KCS=   0  X,Y,Z=   10.379          636.14       17.595
 NODE       41  KCS=   0  X,Y,Z=   10.379          636.14       20.048
 NODE       43  KCS=   0  X,Y,Z=   10.692          636.14       20.360
 NODE       44  KCS=   0  X,Y,Z=   10.812          636.14       20.360
 NODE       45  KCS=   0  X,Y,Z=   11.129          636.14       20.360
 NODE     9020  KCS=   0  X,Y,Z=   13.507          636.14       20.360
 NODE       46  KCS=   0  X,Y,Z=   15.885          636.14       20.360
 NODE       47  KCS=   0  X,Y,Z=   16.135          636.14       20.360
 NODE       48  KCS=   0  X,Y,Z=   16.385          636.14       20.360
 NODE       49  KCS=   0  X,Y,Z=   16.801          636.14       20.360
 NODE       50  KCS=   0  X,Y,Z=   17.218          636.14       20.360
 NODE       51  KCS=   0  X,Y,Z=   17.343          636.14       20.360
 NODE       52  KCS=   0  X,Y,Z=   17.801          636.14       20.360
 NODE       53  KCS=   0  X,Y,Z=   19.622          636.14       20.360
 NODE       54  KCS=   0  X,Y,Z=   22.801          636.14       20.360
 NODE       55  KCS=   0  X,Y,Z=   22.864          636.14       20.360
```

NODE	56	KCS=	0	X,Y,Z=	23.176	636.14	20.673
NODE	57	KCS=	0	X,Y,Z=	23.176	636.14	20.860
NODE	58	KCS=	0	X,Y,Z=	23.176	636.14	21.027
NODE	59	KCS=	0	X,Y,Z=	23.176	636.14	21.277
NODE	60	KCS=	0	X,Y,Z=	23.176	636.14	21.527
NODE	61	KCS=	0	X,Y,Z=	23.176	636.14	21.777
NODE	62	KCS=	0	X,Y,Z=	23.176	636.14	21.798
NODE	63	KCS=	0	X,Y,Z=	22.864	636.14	22.110
NODE	64	KCS=	0	X,Y,Z=	21.947	636.14	22.110
NODE	65	KCS=	0	X,Y,Z=	21.530	636.14	22.110
NODE	66	KCS=	0	X,Y,Z=	21.113	636.14	22.110
NODE	67	KCS=	0	X,Y,Z=	20.759	636.14	22.110
NODE	68	KCS=	0	X,Y,Z=	20.509	636.14	22.110
NODE	69	KCS=	0	X,Y,Z=	20.259	636.14	22.110
NODE	70	KCS=	0	X,Y,Z=	20.071	636.14	22.110
NODE	71	KCS=	0	X,Y,Z=	19.654	636.14	22.110
NODE	72	KCS=	0	X,Y,Z=	19.237	636.14	22.110
NODE	73	KCS=	0	X,Y,Z=	17.383	636.14	22.110
NODE	74	KCS=	0	X,Y,Z=	17.175	636.14	22.110
NODE	75	KCS=	0	X,Y,Z=	16.758	636.14	22.110
NODE	76	KCS=	0	X,Y,Z=	16.341	636.14	22.110
NODE	77	KCS=	0	X,Y,Z=	16.133	636.14	22.110
NODE	78	KCS=	0	X,Y,Z=	15.799	636.14	22.110
NODE	9021	KCS=	0	X,Y,Z=	13.413	636.14	22.110
NODE	79	KCS=	0	X,Y,Z=	11.028	636.14	22.110
NODE	80	KCS=	0	X,Y,Z=	10.121	636.14	22.110
NODE	81	KCS=	0	X,Y,Z=	9.8970	636.14	22.110
NODE	82	KCS=	0	X,Y,Z=	9.5850	636.14	21.798
NODE	9022	KCS=	0	X,Y,Z=	9.5850	636.14	19.663
NODE	83	KCS=	0	X,Y,Z=	9.5850	636.14	17.527
NODE	84	KCS=	0	X,Y,Z=	9.5850	636.14	17.333
NODE	85	KCS=	0	X,Y,Z=	9.5650	636.14	17.194
NODE	86	KCS=	0	X,Y,Z=	9.2310	635.79	16.694
NODE	87	KCS=	0	X,Y,Z=	8.7600	635.32	16.694
NODE	47	KCS=	0	X,Y,Z=	16.135	636.14	20.360
NODE	91	KCS=	0	X,Y,Z=	16.135	636.39	20.360
NODE	92	KCS=	0	X,Y,Z=	16.135	637.33	20.360
NODE	93	KCS=	0	X,Y,Z=	16.135	637.64	20.673
NODE	94	KCS=	0	X,Y,Z=	16.135	637.64	20.944
NODE	95	KCS=	0	X,Y,Z=	16.135	637.64	21.361
NODE	96	KCS=	0	X,Y,Z=	16.135	637.64	21.778
NODE	97	KCS=	0	X,Y,Z=	16.135	637.64	21.799
NODE	98	KCS=	0	X,Y,Z=	16.135	637.33	22.111
NODE	100	KCS=	0	X,Y,Z=	16.135	636.96	22.111
NODE	101	KCS=	0	X,Y,Z=	16.135	636.71	22.111

NODE	102	KCS=	0	X,Y,Z=	16.135	636.39	22.111
NODE	77	KCS=	0	X,Y,Z=	16.135	636.14	22.111
NODE	59	KCS=	0	X,Y,Z=	23.176	636.14	21.277
NODE	103	KCS=	0	X,Y,Z=	22.866	636.14	21.277
NODE	104	KCS=	0	X,Y,Z=	22.092	636.14	21.277
NODE	105	KCS=	0	X,Y,Z=	21.842	636.14	21.277
NODE	106	KCS=	0	X,Y,Z=	21.592	636.14	21.277
NODE	107	KCS=	0	X,Y,Z=	20.634	636.14	21.277
NODE	109	KCS=	0	X,Y,Z=	20.509	636.14	21.402
NODE	111	KCS=	0	X,Y,Z=	20.509	636.14	21.683
NODE	112	KCS=	0	X,Y,Z=	20.509	636.14	21.901
NODE	68	KCS=	0	X,Y,Z=	20.509	636.14	22.111
NODE	101	KCS=	0	X,Y,Z=	16.135	636.71	22.111
NODE	113	KCS=	0	X,Y,Z=	16.135	636.71	22.611
NODE	114	KCS=	0	X,Y,Z=	16.135	636.71	22.965
NODE	115	KCS=	0	X,Y,Z=	16.135	636.71	23.319
NODE	116	KCS=	0	X,Y,Z=	16.135	636.71	23.840
NODE	118	KCS=	0	X,Y,Z=	16.135	636.89	24.027
NODE	9023	KCS=	0	X,Y,Z=	16.135	639.27	24.027
NODE	120	KCS=	0	X,Y,Z=	16.135	641.65	24.027
NODE	122	KCS=	0	X,Y,Z=	16.135	641.84	24.214
NODE	124	KCS=	0	X,Y,Z=	16.135	641.84	24.567
NODE	125	KCS=	0	X,Y,Z=	16.135	641.84	25.411
NODE	127	KCS=	0	X,Y,Z=	16.135	641.65	25.598
NODE	129	KCS=	0	X,Y,Z=	16.135	639.51	25.598
NODE	9024	KCS=	0	X,Y,Z=	16.135	637.97	25.598
NODE	130	KCS=	0	X,Y,Z=	16.135	636.42	25.598
NODE	65	KCS=	0	X,Y,Z=	21.530	636.14	22.110
NODE	131	KCS=	0	X,Y,Z=	21.530	636.41	22.110
NODE	132	KCS=	0	X,Y,Z=	21.530	636.69	22.110
NODE	71	KCS=	0	X,Y,Z=	19.654	636.14	22.110
NODE	133	KCS=	0	X,Y,Z=	19.654	636.41	22.110
NODE	134	KCS=	0	X,Y,Z=	19.654	636.69	22.110
NODE	1001	KCS=	0	X,Y,Z=	0.	574.00	0.
NODE	1009	KCS=	0	X,Y,Z=	5.2170	583.70	-0.88400
NODE	1010	KCS=	0	X,Y,Z=	5.2170	584.23	-0.88400
NODE	1014	KCS=	0	X,Y,Z=	5.7590	593.25	-0.88400
NODE	1015	KCS=	0	X,Y,Z=	6.2590	593.25	-0.88400
NODE	1023	KCS=	0	X,Y,Z=	10.379	604.29	1.9440
NODE	1028	KCS=	0	X,Y,Z=	10.379	624.75	1.9440
NODE	1029	KCS=	0	X,Y,Z=	10.379	626.41	1.9440
NODE	1037	KCS=	0	X,Y,Z=	10.379	636.14	2.9590
NODE	1039	KCS=	0	X,Y,Z=	10.379	636.14	11.918
NODE	1044	KCS=	0	X,Y,Z=	10.812	636.14	20.360
NODE	1045	KCS=	0	X,Y,Z=	11.129	636.14	20.360
NODE	1052	KCS=	0	X,Y,Z=	17.801	636.14	20.360

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NODE    1053  NCS=    0  X,Y,Z=  19.822      636.14      20.360
NODE    1054  NCS=    0  X,Y,Z=  22.801      636.14      20.360
NODE    1057  NCS=    0  X,Y,Z=  23.176      636.14      20.860
NODE    1061  NCS=    0  X,Y,Z=  23.176      636.14      21.777
NODE    1073  NCS=    0  X,Y,Z=  17.383      636.14      22.110
NODE    1078  NCS=    0  X,Y,Z=  15.799      636.14      22.110
NODE    1079  NCS=    0  X,Y,Z=  11.028      636.14      22.110
NODE    1087  NCS=    0  X,Y,Z=  8.7600      635.32      16.694
NODE    1124  NCS=    0  X,Y,Z=  16.135      641.84      24.567
NODE    1129  NCS=    0  X,Y,Z=  16.135      639.51      25.598
NODE    1130  NCS=    0  X,Y,Z=  16.135      636.42      25.598
NODE    1131  NCS=    0  X,Y,Z=  21.530      636.41      22.110
NODE    1133  NCS=    0  X,Y,Z=  19.654      636.41      22.110
ELEMENT TYPE SET TO      1
REAL CONSTANT NUMBER=     11
MATERIAL NUMBER SET TO    1
ELEMENT      1       1       2       0
ELEMENT TYPE SET TO      2
REAL CONSTANT NUMBER=    211
ELEMENT      2       2       3       1
ELEMENT TYPE SET TO      1
REAL CONSTANT NUMBER=     11
ELEMENT      3       3       4       0
ELEMENT      4       4       5       0
ELEMENT TYPE SET TO      2
REAL CONSTANT NUMBER=     21
ELEMENT      5       5    9001       4
ELEMENT      6    9001    9002       4
ELEMENT      7    9002       6       4
ELEMENT TYPE SET TO      1
REAL CONSTANT NUMBER=     11
ELEMENT      8       6       7       0
ELEMENT      9       7    9003       0
ELEMENT     10    9003    9004       0
ELEMENT     11    9004       9       0
ELEMENT     12       9      10       0
ELEMENT     13      10    9005       0
ELEMENT     14    9005    9006       0
ELEMENT     15    9006      11       0
ELEMENT     16      11      12       0
ELEMENT TYPE SET TO      2
REAL CONSTANT NUMBER=     21
ELEMENT     17      12    9007      11
ELEMENT     18    9007    9008      11
ELEMENT     19    9008      13      11
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ELEMENT TYPE SET TO      1
REAL CONSTANT NUMBER=     11
ELEMENT     20      13      14       0
ELEMENT     21      14      15       0
ELEMENT     22      15      16       0
ELEMENT TYPE SET TO      2
REAL CONSTANT NUMBER=     21
ELEMENT     23      16      17      15
ELEMENT TYPE SET TO      1
REAL CONSTANT NUMBER=     11
ELEMENT     24      17      18       0
ELEMENT     25      18      19       0
ELEMENT     26      19      20       0
ELEMENT TYPE SET TO      2
REAL CONSTANT NUMBER=     21
ELEMENT     27      20      21      19
ELEMENT TYPE SET TO      1
REAL CONSTANT NUMBER=     11
ELEMENT     28      21    9009       0
ELEMENT     29    9009    9010       0
ELEMENT     30    9010      22       0
ELEMENT     31      22      23       0
ELEMENT     32      23      24       0
ELEMENT     33      24    9011       0
ELEMENT     34    9011    9012       0
ELEMENT     35    9012      25       0
ELEMENT     36      25      26       0
ELEMENT     37      26    9013       0
ELEMENT     38    9013    9014       0
ELEMENT     39    9014      27       0
ELEMENT     40      27      28       0
ELEMENT     41      28      29       0
ELEMENT     42      29    9015       0
ELEMENT     43    9015    9016       0
ELEMENT     44    9016      30       0
ELEMENT     45      30      31       0
ELEMENT TYPE SET TO      2
REAL CONSTANT NUMBER=     21
ELEMENT     46      31      32      30
ELEMENT     47      32      35      30
ELEMENT TYPE SET TO      1
REAL CONSTANT NUMBER=     11
ELEMENT     48      35      37       0
ELEMENT     49      37    9017       0
ELEMENT     50    9017    9018       0
ELEMENT     51    9018      38       0
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ELEMENT     52      38      39       0
ELEMENT     53      39    9019       0
ELEMENT     54    9019      40       0
ELEMENT     55      40      41       0
ELEMENT TYPE SET TO      2
REAL CONSTANT NUMBER=     21
ELEMENT     56      41      43      40
ELEMENT TYPE SET TO      1
REAL CONSTANT NUMBER=     11
ELEMENT     57      43      44       0
ELEMENT     58      44      45       0
ELEMENT     59      45    9020       0
ELEMENT     60    9020      46       0
ELEMENT     61      46      47       0
ELEMENT     62      47      48       0
ELEMENT TYPE SET TO      1
REAL CONSTANT NUMBER=     11
MATERIAL NUMBER SET TO     2
ELEMENT     63      48      49       0
ELEMENT     64      49      50       0
ELEMENT TYPE SET TO      1
REAL CONSTANT NUMBER=     11
MATERIAL NUMBER SET TO     1
ELEMENT     65      50      51       0
ELEMENT     66      51      52       0
ELEMENT     67      52      53       0
ELEMENT     68      53      54       0
ELEMENT     69      54      55       0
ELEMENT TYPE SET TO      2
REAL CONSTANT NUMBER=     21
ELEMENT     70      55      56      54
ELEMENT TYPE SET TO      1
REAL CONSTANT NUMBER=     11
ELEMENT     71      56      57       0
ELEMENT     72      57      58       0
ELEMENT     73      58      59       0
ELEMENT     74      59      60       0
ELEMENT     75      60      61       0
ELEMENT     76      61      62       0
ELEMENT TYPE SET TO      2
REAL CONSTANT NUMBER=     21
ELEMENT     77      62      63      61
ELEMENT TYPE SET TO      1
REAL CONSTANT NUMBER=     11
ELEMENT     78      63      64       0
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ELEMENT TYPE SET TO      1
REAL CONSTANT NUMBER=     11
MATERIAL NUMBER SET TO     2
ELEMENT     79      64      65       0
ELEMENT     80      65      66       0
ELEMENT TYPE SET TO      1
REAL CONSTANT NUMBER=     11
MATERIAL NUMBER SET TO     1
ELEMENT     81      66      67       0
ELEMENT     82      67      68       0
ELEMENT     83      68      69       0
ELEMENT     84      69      70       0
ELEMENT TYPE SET TO      1
REAL CONSTANT NUMBER=     11
MATERIAL NUMBER SET TO     2
ELEMENT     85      70      71       0
ELEMENT     86      71      72       0
ELEMENT TYPE SET TO      1
REAL CONSTANT NUMBER=     11
MATERIAL NUMBER SET TO     1
ELEMENT     87      72      73       0
ELEMENT     88      73      74       0
MATERIAL NUMBER SET TO     2
ELEMENT     89      74      75       0
ELEMENT     90      75      76       0
MATERIAL NUMBER SET TO     1
ELEMENT     91      76      77       0
ELEMENT     92      77      78       0
ELEMENT     93      78    9021       0
ELEMENT     94    9021      79       0
ELEMENT     95      79      80       0
ELEMENT     96      80      81       0
ELEMENT TYPE SET TO      2
REAL CONSTANT NUMBER=     21
ELEMENT     97      81      82      80
ELEMENT TYPE SET TO      1
REAL CONSTANT NUMBER=     11
ELEMENT     98      82    9022       0
ELEMENT     99    9022      83       0
ELEMENT    100      83      84       0
ELEMENT    101      84      85       0
ELEMENT TYPE SET TO      2
REAL CONSTANT NUMBER=    212
ELEMENT    102      85      86      84
ELEMENT TYPE SET TO      1
REAL CONSTANT NUMBER=     11
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ELEMENT     103      86      87       0
ELEMENT     104      47      91       0
ELEMENT     105      91      92       0
ELEMENT TYPE SET TO      2
REAL CONSTANT NUMBER=    213
ELEMENT     106      92      93      91
ELEMENT TYPE SET TO      1
REAL CONSTANT NUMBER=     11
ELEMENT     107      93      94       0
MATERIAL NUMBER SET TO     2
ELEMENT     108      94      95       0
ELEMENT     109      95      96       0
MATERIAL NUMBER SET TO     1
ELEMENT     110      96      97       0
ELEMENT TYPE SET TO      2
REAL CONSTANT NUMBER=     21
ELEMENT     111      97      98      96
ELEMENT TYPE SET TO      1
REAL CONSTANT NUMBER=     11
ELEMENT     112      98     100       0
ELEMENT     113     100     101       0
ELEMENT     114     101     102       0
ELEMENT     115     102      77       0
ELEMENT TYPE SET TO      1
MATERIAL NUMBER SET TO     3
REAL CONSTANT NUMBER=     13
ELEMENT     116      59     103       0
ELEMENT     117     103     104       0
MATERIAL NUMBER SET TO     4
ELEMENT     118     104     105       0
ELEMENT     119     105     106       0
MATERIAL NUMBER SET TO     3
ELEMENT     120     106     107       0
ELEMENT TYPE SET TO      2
MATERIAL NUMBER SET TO     3
REAL CONSTANT NUMBER=     23
ELEMENT     121     107     109     106
ELEMENT TYPE SET TO      1
MATERIAL NUMBER SET TO     3
REAL CONSTANT NUMBER=     13
ELEMENT     122     109     111       0
ELEMENT     123     111     112       0
ELEMENT TYPE SET TO      1
MATERIAL NUMBER SET TO     5
REAL CONSTANT NUMBER=     15
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ELEMENT     124     112      68       0
ELEMENT     125     101     113       0
MATERIAL NUMBER SET TO     6
ELEMENT     126     113     114       0
ELEMENT     127     114     115       0
MATERIAL NUMBER SET TO     5
ELEMENT     128     115     116       0
ELEMENT TYPE SET TO      2
REAL CONSTANT NUMBER=     25
ELEMENT     129     116     118     115
ELEMENT TYPE SET TO      1
MATERIAL NUMBER SET TO     5
REAL CONSTANT NUMBER=     15
ELEMENT     130     118    9023       0
ELEMENT     131    9023     120       0
ELEMENT TYPE SET TO      2
REAL CONSTANT NUMBER=     25
ELEMENT     132     120     122    9023
ELEMENT TYPE SET TO      1
MATERIAL NUMBER SET TO     5
REAL CONSTANT NUMBER=     15
ELEMENT     133     122     124       0
ELEMENT     134     124     125       0
ELEMENT TYPE SET TO      2
REAL CONSTANT NUMBER=     25
ELEMENT     135     125     127     124
ELEMENT TYPE SET TO      1
MATERIAL NUMBER SET TO     5
REAL CONSTANT NUMBER=     15
ELEMENT     136     127     129       0
ELEMENT     137     129    9024       0
ELEMENT     138    9024     130       0
MATERIAL NUMBER SET TO     1
ELEMENT TYPE SET TO      1
REAL CONSTANT NUMBER=     11
ELEMENT     139      65     131       0
ELEMENT     140     131     132       0
ELEMENT     141      71     133       0
ELEMENT     142     133     134       0
REAL CONSTANT NUMBER=     58
ELEMENT TYPE SET TO      3
ELEMENT     143       1    1001
ELEMENT TYPE SET TO      4
ELEMENT     144       1    1001
ELEMENT TYPE SET TO      5
ELEMENT     145       1    1001
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REAL CONSTANT NUMBER=      59
ELEMENT TYPE SET TO        6
ELEMENT     146        1    1001
ELEMENT TYPE SET TO        7
ELEMENT     147        1    1001
ELEMENT TYPE SET TO        8
ELEMENT     148        1    1001
REAL CONSTANT NUMBER=      51
ELEMENT TYPE SET TO        3
ELEMENT     149        9    1009
ELEMENT TYPE SET TO        5
ELEMENT     150       10    1010
ELEMENT TYPE SET TO        4
ELEMENT     151       15    1015
REAL CONSTANT NUMBER=      52
ELEMENT TYPE SET TO        4
ELEMENT     152       14    1014
REAL CONSTANT NUMBER=      51
ELEMENT TYPE SET TO        3
ELEMENT     153       23    1023
ELEMENT TYPE SET TO        5
ELEMENT     154       28    1028
REAL CONSTANT NUMBER=      53
ELEMENT TYPE SET TO        4
ELEMENT     155       37    1037
ELEMENT TYPE SET TO        3
ELEMENT     156       39    1039
REAL CONSTANT NUMBER=      51
ELEMENT TYPE SET TO        4
ELEMENT     157       44    1044
ELEMENT TYPE SET TO        5
ELEMENT     158       45    1045
REAL CONSTANT NUMBER=      54
ELEMENT TYPE SET TO        4
ELEMENT     159       53    1053
REAL CONSTANT NUMBER=      55
ELEMENT     160       79    1079
REAL CONSTANT NUMBER=      51
ELEMENT TYPE SET TO        3
ELEMENT     161      124    1124
ELEMENT TYPE SET TO        5
ELEMENT     162      129    1129
ELEMENT TYPE SET TO        4
ELEMENT     163       52    1052
ELEMENT TYPE SET TO        5
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ELEMENT     164       54    1054
ELEMENT TYPE SET TO        3
ELEMENT     165       57    1057
REAL CONSTANT NUMBER=      56
ELEMENT TYPE SET TO        4
ELEMENT     166       78    1078
ELEMENT TYPE SET TO        5
REAL CONSTANT NUMBER=      51
ELEMENT     167       73    1073
REAL CONSTANT NUMBER=      57
ELEMENT TYPE SET TO        4
ELEMENT     168       61    1061
REAL CONSTANT NUMBER=      51
ELEMENT TYPE SET TO        3
ELEMENT     169      131    1131
ELEMENT TYPE SET TO        5
ELEMENT     170      131    1131
ELEMENT TYPE SET TO        3
ELEMENT     171      133    1133
ELEMENT TYPE SET TO        5
ELEMENT     172      133    1133
REAL CONSTANT NUMBER=      58
ELEMENT TYPE SET TO        3
ELEMENT     173       87    1087
ELEMENT TYPE SET TO        4
ELEMENT     174       87    1087
ELEMENT TYPE SET TO        5
ELEMENT     175       87    1087
REAL CONSTANT NUMBER=      59
ELEMENT TYPE SET TO        6
ELEMENT     176       87    1087
ELEMENT TYPE SET TO        7
ELEMENT     177       87    1087
ELEMENT TYPE SET TO        8
ELEMENT     178       87    1087
REAL CONSTANT NUMBER=      58
ELEMENT TYPE SET TO        3
ELEMENT     179      130    1130
ELEMENT TYPE SET TO        4
ELEMENT     180      130    1130
ELEMENT TYPE SET TO        5
ELEMENT     181      130    1130
REAL CONSTANT NUMBER=      59
ELEMENT TYPE SET TO        6
ELEMENT     182      130    1130
ELEMENT TYPE SET TO        7
```

```
ELEMENT    183     130   1130
ELEMENT TYPE SET TO      8
ELEMENT    184     130   1130
ELEMENT TYPE SET TO     30
REAL CONSTANT NUMBER=     31
ELEMENT    185       9
ELEMENT    186      10
ELEMENT    187      15
ELEMENT    188      23
ELEMENT    189      28
ELEMENT    190      44
ELEMENT    191      45
ELEMENT    192      52
ELEMENT    193      54
ELEMENT    194      57
ELEMENT    195      73
ELEMENT    196     114
ELEMENT    197     124
ELEMENT    198     129
REAL CONSTANT NUMBER=     32
ELEMENT    199      14
ELEMENT    200      79
REAL CONSTANT NUMBER=     33
ELEMENT    201      37
REAL CONSTANT NUMBER=     34
ELEMENT    202      39
REAL CONSTANT NUMBER=     35
ELEMENT    203      49
ELEMENT    204      75
ELEMENT    205      95
REAL CONSTANT NUMBER=     36
ELEMENT    206      53
REAL CONSTANT NUMBER=     37
ELEMENT    207      61
REAL CONSTANT NUMBER=     38
ELEMENT    208      65
ELEMENT    209      71
REAL CONSTANT NUMBER=     39
ELEMENT    210      78
REAL CONSTANT NUMBER=     40
ELEMENT    211     105
REAL CONSTANT NUMBER=     41
ELEMENT    212     131
ELEMENT    213     133
REAL CONSTANT NUMBER=     42
```



```
ELEMENT    214     132
ELEMENT    215     134
NODE     301  KCS=   0  X,Y,Z=      0.       565.05        0.
NODE     302  KCS=   0  X,Y,Z=      0.       568.00        0.
NODE     303  KCS=   0  X,Y,Z=      0.       571.00        0.
NODE     304  KCS=   0  X,Y,Z=      0.       574.00        0.
NODE     305  KCS=   0  X,Y,Z=      0.       577.83        0.
NODE     306  KCS=   0  X,Y,Z=      0.       590.00        0.
NODE     307  KCS=   0  X,Y,Z=      0.       595.50        0.
NODE     308  KCS=   0  X,Y,Z=      0.       604.00        0.
NODE     309  KCS=   0  X,Y,Z=      0.       609.50        0.
NODE     310  KCS=   0  X,Y,Z=      0.       624.50        0.
NODE     311  KCS=   0  X,Y,Z=      0.       629.58        0.
NODE     312  KCS=   0  X,Y,Z=      0.       638.33        0.
NODE     313  KCS=   0  X,Y,Z=      0.       647.00        0.
ELEMENT TYPE SET TO     71
MATERIAL NUMBER SET TO    71
REAL CONSTANT NUMBER=     71
ELEMENT    216     301     302       0
ELEMENT    217     302     303       0
ELEMENT    218     303     304       0
REAL CONSTANT NUMBER=     72
ELEMENT    219     304     305       0
REAL CONSTANT NUMBER=     73
ELEMENT    220     305     306       0
REAL CONSTANT NUMBER=     74
ELEMENT    221     306     307       0
ELEMENT    222     307     308       0
REAL CONSTANT NUMBER=     75
ELEMENT    223     308     309       0
ELEMENT    224     309     310       0
REAL CONSTANT NUMBER=     76
ELEMENT    225     310     311       0
ELEMENT    226     311     312       0
ELEMENT    227     312     313       0
ELEMENT TYPE SET TO     72
REAL CONSTANT NUMBER=     77
ELEMENT    228     304
REAL CONSTANT NUMBER=     78
ELEMENT    229     306
REAL CONSTANT NUMBER=     79
ELEMENT    230     308
REAL CONSTANT NUMBER=     80
ELEMENT    231     310
REAL CONSTANT NUMBER=     81
ELEMENT    232     313
```

```
COUPLED SET=      1  DIRECTION= UX    TOTAL NODES=      2
NODES ADDED  =     304    1001
MAXIMUM COUPLED SET NUMBER=      1

COUPLED SET=      2  DIRECTION= UX    TOTAL NODES=      2
NODES ADDED  =     309    1087
MAXIMUM COUPLED SET NUMBER=      2

COUPLED SET=      3  DIRECTION= UX    TOTAL NODES=      7
NODES ADDED  =     312    1037    1039    1044    1045    1053    1079
MAXIMUM COUPLED SET NUMBER=      3

*** WARNING ***                         CP=       8.370   TIME= 21:50:35
Coupled set 3 already contains node 312.
 Node 312 will not be added to the set.

COUPLED SET=      3  DIRECTION= UX    TOTAL NODES=     13
NODES ADDED  =    1124    1129    1052    1054    1057    1078
MAXIMUM COUPLED SET NUMBER=      3

*** WARNING ***                         CP=       8.390   TIME= 21:50:35
Coupled set 3 already contains node 312.
 Node 312 will not be added to the set.

COUPLED SET=      3  DIRECTION= UX    TOTAL NODES=     18
NODES ADDED  =    1073    1061    1131    1133    1130
MAXIMUM COUPLED SET NUMBER=      3

COUPLED SET=      4  DIRECTION= UX    TOTAL NODES=      3
NODES ADDED  =     306    1009    1010
MAXIMUM COUPLED SET NUMBER=      4

COUPLED SET=      5  DIRECTION= UX    TOTAL NODES=      3
NODES ADDED  =     307    1015    1014
MAXIMUM COUPLED SET NUMBER=      5

COUPLED SET=      6  DIRECTION= UX    TOTAL NODES=      2
NODES ADDED  =     308    1023
MAXIMUM COUPLED SET NUMBER=      6

COUPLED SET=      7  DIRECTION= UX    TOTAL NODES=      2
NODES ADDED  =     310    1028
MAXIMUM COUPLED SET NUMBER=      7

GENERATE FROM SET    1  COUPLED SETS IN DIRECTIONS UY   UZ   ROTX ROTY ROTZ

COUPLED SET=      8  DIRECTION= UY    TOTAL NODES=      2

COUPLED SET=      9  DIRECTION= UZ    TOTAL NODES=      2

COUPLED SET=     10  DIRECTION= ROTX  TOTAL NODES=      2

COUPLED SET=     11  DIRECTION= ROTY  TOTAL NODES=      2

COUPLED SET=     12  DIRECTION= ROTZ  TOTAL NODES=      2

MAXIMUM COUPLED SET NUMBER=     12

GENERATE FROM SET    2  COUPLED SETS IN DIRECTIONS UY   UZ   ROTX ROTY ROTZ

COUPLED SET=     13  DIRECTION= UY    TOTAL NODES=      2

COUPLED SET=     14  DIRECTION= UZ    TOTAL NODES=      2

COUPLED SET=     15  DIRECTION= ROTX  TOTAL NODES=      2

COUPLED SET=     16  DIRECTION= ROTY  TOTAL NODES=      2

COUPLED SET=     17  DIRECTION= ROTZ  TOTAL NODES=      2

MAXIMUM COUPLED SET NUMBER=     17

GENERATE FROM SET    3  COUPLED SETS IN DIRECTIONS UY   UZ   ROTX ROTY ROTZ

COUPLED SET=     18  DIRECTION= UY    TOTAL NODES=     18

COUPLED SET=     19  DIRECTION= UZ    TOTAL NODES=     18

COUPLED SET=     20  DIRECTION= ROTX  TOTAL NODES=     18

COUPLED SET=     21  DIRECTION= ROTY  TOTAL NODES=     18

COUPLED SET=     22  DIRECTION= ROTZ  TOTAL NODES=     18

MAXIMUM COUPLED SET NUMBER=     22

GENERATE FROM SET    4  COUPLED SETS IN DIRECTIONS UY   UZ   ROTX ROTY ROTZ

COUPLED SET=     23  DIRECTION= UY    TOTAL NODES=      3
```



```
COUPLED SET=     24  DIRECTION= UZ    TOTAL NODES=      3

COUPLED SET=     25  DIRECTION= ROTX  TOTAL NODES=      3

COUPLED SET=     26  DIRECTION= ROTY  TOTAL NODES=      3

COUPLED SET=     27  DIRECTION= ROTZ  TOTAL NODES=      3

MAXIMUM COUPLED SET NUMBER=     27

GENERATE FROM SET    5  COUPLED SETS IN DIRECTIONS UY   UZ   ROTX ROTY ROTZ

COUPLED SET=     28  DIRECTION= UY    TOTAL NODES=      3

COUPLED SET=     29  DIRECTION= UZ    TOTAL NODES=      3

COUPLED SET=     30  DIRECTION= ROTX  TOTAL NODES=      3

COUPLED SET=     31  DIRECTION= ROTY  TOTAL NODES=      3

COUPLED SET=     32  DIRECTION= ROTZ  TOTAL NODES=      3

MAXIMUM COUPLED SET NUMBER=     32

GENERATE FROM SET    6  COUPLED SETS IN DIRECTIONS UY   UZ   ROTX ROTY ROTZ

COUPLED SET=     33  DIRECTION= UY    TOTAL NODES=      2

COUPLED SET=     34  DIRECTION= UZ    TOTAL NODES=      2

COUPLED SET=     35  DIRECTION= ROTX  TOTAL NODES=      2

COUPLED SET=     36  DIRECTION= ROTY  TOTAL NODES=      2

COUPLED SET=     37  DIRECTION= ROTZ  TOTAL NODES=      2

MAXIMUM COUPLED SET NUMBER=     37

GENERATE FROM SET    7  COUPLED SETS IN DIRECTIONS UY   UZ   ROTX ROTY ROTZ

COUPLED SET=     38  DIRECTION= UY    TOTAL NODES=      2

COUPLED SET=     39  DIRECTION= UZ    TOTAL NODES=      2

COUPLED SET=     40  DIRECTION= ROTX  TOTAL NODES=      2

COUPLED SET=     41  DIRECTION= ROTY  TOTAL NODES=      2

COUPLED SET=     42  DIRECTION= ROTZ  TOTAL NODES=      2

MAXIMUM COUPLED SET NUMBER=     42

SPECIFIED CONSTRAINT UX   FOR SELECTED NODES      301 TO      301 BY       1
REAL=          0.        IMAG=          0.
ADDITIONAL DOFS=  UY    UZ    ROTX  ROTY  ROTZ

USE LUMPED MASS MATRIX APPROXIMATION

ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2ecx.db
 FOR POSSIBLE RESUME FROM THIS POINT

***** ROUTINE COMPLETED *****  CP =          9.480


C*** Time History analysis for earthquake record (El Centro)

/OUTPUT FILE= pb2ecx0

+------------------------------------------------------------------------------+
|                                                                              |
|                          ANSYS RUN COMPLETED                                 |
|                                                                              |
|------------------------------------------------------------------------------|
|                                                                              |
|              REV. 5.0                              SUN4SPARC                 |
|                                                                              |
|       CP TIME      (sec) =      19372.561         TIME  =  05:11:57          |
|       ELAPSED TIME (sec) =      26500.000         DATE  =  10/10/95          |
|                                                                              |
+------------------------------------------------------------------------------+
```

```
1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2           VERSION=SUN4SPARC      02:11:56  OCT 10, 1995 CP=  14847.030
FOR SUPPORT CALL                    PHONE                      FAX

 Time-history analysis of coupled system (presurizer spray line)

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


        ***** TIME-HISTORY POSTPROCESSOR (POST26) *****

ALL POST26 SPECIFICATIONS ARE RESET TO INITIAL DEFAULTS

*** NOTE ***                                CP=  14847.110   TIME= 02:11:56
Unable to open default results file pb2ecx.rst
 Use FILE command to open a results file.

DATA FILE CHANGED TO FILE= pb2ecx.rdsp

MAXIMUM NUMBER OF VARIABLES= 15

VARIABLE  2  IS AT NODE    12  ITEM= U    COMP= X     NAME= UX

VARIABLE  3  IS AT NODE    12  ITEM= U    COMP= Y     NAME= UY

VARIABLE  4  IS AT NODE    12  ITEM= U    COMP= Z     NAME= UZ

VARIABLE  5  IS AT NODE    17  ITEM= U    COMP= X     NAME= UX

VARIABLE  6  IS AT NODE    17  ITEM= U    COMP= Y     NAME= UY

VARIABLE  7  IS AT NODE    17  ITEM= U    COMP= Z     NAME= UZ

VARIABLE  8  IS AT NODE    21  ITEM= U    COMP= X     NAME= UX

VARIABLE  9  IS AT NODE    21  ITEM= U    COMP= Z     NAME= UZ

VARIABLE 10  IS AT NODE  9010  ITEM= U    COMP= Z     NAME= UZ

VARIABLE 11  IS AT NODE    24  ITEM= U    COMP= Z     NAME= UZ

VARIABLE 12  IS AT NODE  9013  ITEM= U    COMP= Z     NAME= UZ

VARIABLE 13  IS AT NODE    28  ITEM= U    COMP= X     NAME= UX

VARIABLE 14  IS AT NODE    35  ITEM= U    COMP= X     NAME= UX

VARIABLE 15  IS AT NODE  9017  ITEM= U    COMP= X     NAME= UX

STORAGE COMPLETE FOR   2787 DATA POINTS

        SUMMARY OF VARIABLES STORED THIS STEP AND EXTREME VALUES
VARI TYPE     IDENTIFIERS     NAME    MINIMUM     AT TIME     MAXIMUM    AT TIME

  2 NSOL     12 UX          UX       -0.8100E-01  4.320      0.6937E-01  4.460
  3 NSOL     12 UY          UY       -0.5166E-02  4.320      0.4031E-02  4.460
  4 NSOL     12 UZ          UZ       -0.6096E-01  4.780      0.6723E-01  5.120
  5 NSOL     17 UX          UX       -0.8386E-01  4.320      0.6975E-01  4.460
  6 NSOL     17 UY          UY       -0.3759E-02  7.480      0.4405E-02  6.520
  7 NSOL     17 UZ          UZ       -0.1042      4.780      0.1110      5.140
  8 NSOL     21 UX          UX       -0.1138      4.300      0.6624E-01  4.000
  9 NSOL     21 UZ          UZ       -0.1546      4.800      0.1634      5.160
 10 NSOL   9010 UZ          UZ       -0.1583      4.800      0.1685      5.160
 11 NSOL     24 UZ          UZ       -0.1435      4.800      0.1526      5.140
 12 NSOL   9013 UZ          UZ       -0.4966E-01  4.800      0.5264E-01  5.120
 13 NSOL     28 UX          UX       -0.2249      4.600      0.2492      4.240
 14 NSOL     35 UX          UX       -0.2169      4.680      0.1876      4.260
 15 NSOL   9017 UX          UX       -0.1232      4.680      0.1068      4.260

        POST26 SUMMARY OF VARIABLE EXTREME VALUES
VARI TYPE     IDENTIFIERS     NAME    MINIMUM     AT TIME     MAXIMUM    AT TIME

  2 NSOL     12 UX          UX       -0.8100E-01  4.320      0.6937E-01  4.460
  3 NSOL     12 UY          UY       -0.5166E-02  4.320      0.4031E-02  4.460
  4 NSOL     12 UZ          UZ       -0.6096E-01  4.780      0.6723E-01  5.120
  5 NSOL     17 UX          UX       -0.8386E-01  4.320      0.6975E-01  4.460
  6 NSOL     17 UY          UY       -0.3759E-02  7.480      0.4405E-02  6.520
  7 NSOL     17 UZ          UZ       -0.1042      4.780      0.1110      5.140
  8 NSOL     21 UX          UX       -0.1138      4.300      0.6624E-01  4.000
  9 NSOL     23 UZ          UZ       -0.1546      4.800      0.1634      5.160
 10 NSOL   9010 UZ          UZ       -0.1583      4.800      0.1685      5.160
 11 NSOL     24 UZ          UZ       -0.1435      4.800      0.1526      5.140
 12 NSOL   9013 UZ          UZ       -0.4966E-01  4.800      0.5264E-01  5.120
 13 NSOL     28 UX          UX       -0.2249      4.600      0.2492      4.240
 14 NSOL     35 UX          UX       -0.2169      4.680      0.1876      4.260
 15 NSOL   9017 UX          UX       -0.1232      4.680      0.1068      4.260

 ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2ecx.db
  FOR POSSIBLE RESUME FROM THIS POINT
```



```
***** ROUTINE COMPLETED *****  CP =      14854.020


*****  ANSYS SOLUTION ROUTINE  *****

PERFORM AN EXPANSION PASS

EXPAND   100 SOLUTIONS
 IN THE RANGE FROM        0.      TO  0.10000
 CALCULATE ELEMENT RESULTS AS WELL AS THE NODAL DOF SOLUTION

PRINT BASI ITEMS WITH A FREQUENCY OF NONE
  FOR ALL APPLICABLE ENTITIES

*****  ANSYS SOLVE    COMMAND  *****
1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2           VERSION=SUN4SPARC      02:12:16  OCT 10, 1995 CP=  14854.080
FOR SUPPORT CALL                    PHONE                      FAX

 Time-history analysis of coupled system (presurizer spray line)

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**

                    S O L U T I O N   O P T I O N S

  PROBLEM DIMENSIONALITY. . . . . .3-D
  DEGREES OF FREEDOM. . . . . UX   UY   UZ   ROTX ROTY ROTZ
  ANALYSIS TYPE . . . . . .TRANSIENT
     SOLUTION METHOD. . . . . .REDUCED
     EXPANSION PASS . . . . . .ON

                    L O A D   S T E P   O P T I O N S

  LOAD STEP NUMBER. . . . . 1
  NUMBER OF SOLUTIONS TO BE EXPANDED. . . . . 100
     RANGE. . . . . 0.      TO  0.10000
  ELEMENT RESULTS CALCULATION . . . . . ON
  PRINT OUTPUT CONTROLS
     ITEM      FREQUENCY   COMPONENT
     BASI      NONE
  DATABASE OUTPUT CONTROLS
     ITEM      FREQUENCY   COMPONENT
     NSOL      LAST


   *** ELEMENT RESULT CALCULATION TIMES
  TYPE  NUMBER   ENAME      TOTAL CP  AVE CP

     1      120  PIPE16        0.703    0.006
     2       22  PIPE18        0.258    0.012
     3       10  COMBIN14      0.031    0.003
     4       12  COMBIN14      0.021    0.002
     5       11  COMBIN14      0.011    0.001
     6        3  COMBIN14      0.000    0.000
     7        3  COMBIN14      0.010    0.003
     8        3  COMBIN14      0.000    0.000
    30       31  MASS21        0.060    0.002
    71       12  BEAM4         0.430    0.036
    72        5  MASS21        0.011    0.002

   *** NODAL LOAD CALCULATION TIMES
  TYPE  NUMBER   ENAME      TOTAL CP  AVE CP

     1      120  PIPE16        0.079    0.001
     2       22  PIPE18        0.000    0.000
     3       10  COMBIN14      0.010    0.001
     4       12  COMBIN14      0.000    0.000
     5       11  COMBIN14      0.000    0.000
     6        3  COMBIN14      0.000    0.000
     7        3  COMBIN14      0.010    0.003
     8        3  COMBIN14      0.010    0.003
    30       31  MASS21        0.020    0.001
    71       12  BEAM4         0.020    0.002
    72        5  MASS21        0.000    0.000


 *** ANSYS BINARY FILE STATISTICS
 BUFFER SIZE USED=  4096
      33.078 MB WRITTEN ON RESULTS FILE: pb2ecx.rst

 ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2ecx.db
  FOR POSSIBLE RESUME FROM THIS POINT

 FINISH SOLUTION PROCESSING
```

***** ROUTINE COMPLETED ***** CP = 15084.590

1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM REVISION 5.0 *****
40416-2 VERSION=SUN4SPARC 02:23:23 OCT 10, 1995 CP= 15084.630
FOR SUPPORT CALL PHONE FAX

Time-history analysis of coupled system (presurizer spray line)

ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY

***** TIME-HISTORY POSTPROCESSOR (POST26) *****

ALL POST26 SPECIFICATIONS ARE RESET TO INITIAL DEFAULTS

MAXIMUM NUMBER OF VARIABLES= 43

VARIABLE 2 IS AT ELEMENT 143 NODE= 1
ITEM= F COMP= X NAME= FX

VARIABLE 3 IS AT ELEMENT 144 NODE= 1
ITEM= F COMP= Y NAME= FY

VARIABLE 4 IS AT ELEMENT 145 NODE= 1
ITEM= F COMP= Z NAME= FZ

VARIABLE 5 IS AT ELEMENT 146 NODE= 1
ITEM= M COMP= X NAME= MX

VARIABLE 6 IS AT ELEMENT 147 NODE= 1
ITEM= M COMP= Y NAME= MY

VARIABLE 7 IS AT ELEMENT 148 NODE= 1
ITEM= M COMP= Z NAME= MZ

VARIABLE 8 IS AT ELEMENT 173 NODE= 87
ITEM= F COMP= X NAME= FX

VARIABLE 9 IS AT ELEMENT 174 NODE= 87
ITEM= F COMP= Y NAME= FY

VARIABLE 10 IS AT ELEMENT 175 NODE= 87
ITEM= F COMP= Z NAME= FZ

VARIABLE 11 IS AT ELEMENT 176 NODE= 87
ITEM= M COMP= X NAME= MX

VARIABLE 12 IS AT ELEMENT 177 NODE= 87
ITEM= M COMP= Y NAME= MY

VARIABLE 13 IS AT ELEMENT 178 NODE= 87
ITEM= M COMP= Z NAME= MZ

VARIABLE 14 IS AT ELEMENT 179 NODE= 130
ITEM= F COMP= X NAME= FX

VARIABLE 15 IS AT ELEMENT 180 NODE= 130
ITEM= F COMP= Y NAME= FY

VARIABLE 16 IS AT ELEMENT 181 NODE= 130
ITEM= F COMP= Z NAME= FZ

VARIABLE 17 IS AT ELEMENT 182 NODE= 130
ITEM= M COMP= X NAME= MX

VARIABLE 18 IS AT ELEMENT 183 NODE= 130
ITEM= M COMP= Y NAME= MY

VARIABLE 19 IS AT ELEMENT 184 NODE= 130
ITEM= M COMP= Z NAME= MZ

VARIABLE 20 IS AT ELEMENT 149 NODE= 9
ITEM= F COMP= X NAME= FX

VARIABLE 21 IS AT ELEMENT 150 NODE= 10
ITEM= F COMP= Z NAME= FZ

VARIABLE 22 IS AT ELEMENT 151 NODE= 15
ITEM= F COMP= Y NAME= FY

VARIABLE 23 IS AT ELEMENT 153 NODE= 23
ITEM= F COMP= X NAME= FX

VARIABLE 24 IS AT ELEMENT 154 NODE= 28
ITEM= F COMP= Z NAME= FZ

VARIABLE 25 IS AT ELEMENT 155 NODE= 37
ITEM= F COMP= Y NAME= FY

VARIABLE 26 IS AT ELEMENT 156 NODE= 39
ITEM= F COMP= X NAME= FX

VARIABLE 27 IS AT ELEMENT 157 NODE= 44
ITEM= F COMP= Y NAME= FY

VARIABLE 28 IS AT ELEMENT 158 NODE= 45
ITEM= F COMP= Z NAME= FZ

VARIABLE 29 IS AT ELEMENT 161 NODE= 124
ITEM= F COMP= X NAME= FX

VARIABLE 30 IS AT ELEMENT 162 NODE= 129
ITEM= F COMP= Z NAME= FZ

VARIABLE 31 IS AT ELEMENT 163 NODE= 52
ITEM= F COMP= Y NAME= FY

VARIABLE 32 IS AT ELEMENT 164 NODE= 54
ITEM= F COMP= Z NAME= FZ

VARIABLE 33 IS AT ELEMENT 165 NODE= 57
ITEM= F COMP= X NAME= FX

VARIABLE 34 IS AT ELEMENT 167 NODE= 73
ITEM= F COMP= Z NAME= FZ

VARIABLE 35 IS AT ELEMENT 169 NODE= 131
ITEM= F COMP= X NAME= FX

VARIABLE 36 IS AT ELEMENT 170 NODE= 131
ITEM= F COMP= Z NAME= FZ

VARIABLE 37 IS AT ELEMENT 171 NODE= 133
ITEM= F COMP= X NAME= FX

VARIABLE 38 IS AT ELEMENT 172 NODE= 133
ITEM= F COMP= Z NAME= FZ

VARIABLE 39 IS AT ELEMENT 152 NODE= 14
ITEM= F COMP= Y NAME= FY

VARIABLE 40 IS AT ELEMENT 159 NODE= 53
ITEM= F COMP= Y NAME= FY

VARIABLE 41 IS AT ELEMENT 168 NODE= 61
ITEM= F COMP= Y NAME= FY

VARIABLE 42 IS AT ELEMENT 166 NODE= 78
ITEM= F COMP= Y NAME= FY

VARIABLE 43 IS AT ELEMENT 160 NODE= 79
ITEM= F COMP= Y NAME= FY

STORAGE COMPLETE FOR 99 DATA POINTS

SUMMARY OF VARIABLES STORED THIS STEP AND EXTREME VALUES

VARI	TYPE	IDENTIFIERS			NAME	MINIMUM	AT TIME	MAXIMUM	AT TIME
2	ESOL	143	F	X	FX	-0.1155E-02	0.4200	0.1390E-02	1.380
3	ESOL	144	F	Y	FY	-0.3610E-03	0.3400	0.5835E-03	1.420
4	ESOL	145	F	Z	FZ	-0.4289E-03	1.700	0.4839E-03	1.360
5	ESOL	146	M	X	MX	-0.1004E-02	1.700	0.7537E-03	0.6400
6	ESOL	147	M	Y	MY	-0.6253E-02	1.460	0.5236E-02	0.4800
7	ESOL	148	M	Z	MZ	-0.1745E-02	0.2600	0.2356E-02	1.460
8	ESOL	173	F	X	FX	-0.7075E-03	0.3400	0.1160E-02	1.540
9	ESOL	174	F	Y	FY	-0.8825E-04	0.4800	0.1187E-03	1.460
10	ESOL	175	F	Z	FZ	-0.8094E-04	0.1800	0.7736E-04	1.300
11	ESOL	176	M	X	MX	-0.5919E-03	1.680	0.4795E-03	0.4800
12	ESOL	177	M	Y	MY	-0.1044E-02	0.4000	0.1705E-02	1.560
13	ESOL	178	M	Z	MZ	-0.7172E-03	1.560	0.4450E-03	0.3400
14	ESOL	179	F	X	FX	-0.3753E-03	0.3400	0.6113E-03	1.540
15	ESOL	180	F	Y	FY	-0.9882E-04	0.4600	0.1278E-03	1.620
16	ESOL	181	F	Z	FZ	-0.5569E-04	1.620	0.4659E-04	0.4600
17	ESOL	182	M	X	MX	-0.5593E-04	1.620	0.4662E-04	0.4600
18	ESOL	183	M	Y	MY	-0.8732E-04	0.3400	0.1402E-03	1.560
19	ESOL	184	M	Z	MZ	-0.8135E-03	1.540	0.5006E-03	0.3400
20	ESOL	149	F	X	FX	-0.3166E-02	0.2400	0.4193E-02	1.540
21	ESOL	150	F	Z	FZ	-0.1283E-02	1.360	0.1086E-02	1.720
22	ESOL	151	F	Y	FY	-0.2049E-02	1.380	0.1102E-02	0.4000
23	ESOL	153	F	X	FX	-0.5781E-02	0.4800	0.8175E-02	1.500
24	ESOL	154	F	Z	FZ	-0.8231E-03	0.6600	0.1176E-02	1.700
25	ESOL	155	F	Y	FY	-0.8131E-03	1.040	0.1503E-02	1.380
26	ESOL	156	F	X	FX	-0.9680E-02	0.4800	0.1362E-01	1.580
27	ESOL	157	F	Y	FY	-0.4322E-03	1.700	0.4443E-03	0.4800
28	ESOL	158	F	Z	FZ	-0.1576E-02	0.4000	0.2074E-02	1.460
29	ESOL	161	F	X	FX	-0.6801E-03	0.4000	0.1107E-02	1.540
30	ESOL	162	F	Z	FZ	-0.4081E-04	0.4600	0.4056E-04	1.640

```
 31 ESOL   163 F    Y     FY       -0.2178E-03 0.4600      0.1482E-03  1.660
 32 ESOL   164 F    Z     FZ       -0.5017E-03  1.560      0.3594E-03 0.5200
 33 ESOL   165 F    X     FX       -0.2939E-02 0.1800      0.3641E-02  1.360
 34 ESOL   167 F    Z     FZ       -0.2487E-02  1.580      0.1812E-02 0.4800
 35 ESOL   169 F    X     FX       -0.4002E-02 0.4000      0.6547E-02  1.540
 36 ESOL   170 F    Z     FZ       -0.2591E-03 0.4000      0.4152E-03  1.500
 37 ESOL   171 F    X     FX       -0.4078E-02 0.4000      0.6688E-02  1.540
 38 ESOL   172 F    Z     FZ       -0.2212E-03 0.5200      0.2746E-03  1.600
 39 ESOL   152 F    Y     FY       -0.1275E-04 0.2600      0.1503E-04  1.480
 40 ESOL   159 F    Y     FY       -0.1696E-04  1.720      0.1498E-04 0.4800
 41 ESOL   168 F    Y     FY       -0.7335E-04  1.720      0.6521E-04 0.4800
 42 ESOL   166 F    Y     FY       -0.2606E-04 0.4600      0.3037E-04  1.660
 43 ESOL   160 F    Y     FY       -0.5818E-05 0.4800      0.7361E-05  1.680

          POST26 SUMMARY OF VARIABLE EXTREME VALUES
VARI TYPE     IDENTIFIERS    NAME      MINIMUM     AT TIME    MAXIMUM   AT TIME

  2 ESOL   143 F    X     FX       -0.1155E-02 0.4200      0.1390E-02  1.380
  3 ESOL   144 F    Y     FY       -0.3610E-03 0.3400      0.5835E-03  1.420
  4 ESOL   145 F    Z     FZ       -0.4289E-03  1.700      0.4839E-03  1.360
  5 ESOL   146 M    X     MX       -0.1006E-02  1.700      0.7537E-03 0.6400
  6 ESOL   147 M    Y     MY       -0.6253E-02  1.460      0.5236E-02 0.4800
  7 ESOL   148 M    Z     MZ       -0.3745E-02 0.2600      0.2356E-02  1.460
  8 ESOL   173 F    X     FX       -0.7075E-03 0.3400      0.1160E-02  1.540
  9 ESOL   174 F    Y     FY       -0.8825E-04 0.4800      0.1187E-03  1.460
 10 ESOL   175 F    Z     FZ       -0.8094E-04 0.1800      0.7736E-04  1.300
 11 ESOL   176 M    X     MX       -0.5919E-03  1.680      0.4795E-03 0.4800
 12 ESOL   177 M    Y     MY       -0.1044E-02 0.4000      0.1705E-02  1.560
 13 ESOL   178 M    Z     MZ       -0.7172E-03  1.560      0.4450E-03 0.3400
 14 ESOL   179 F    X     FX       -0.3753E-03 0.3400      0.6113E-03  1.540
 15 ESOL   180 F    Y     FY       -0.9882E-04 0.4600      0.1278E-03  1.620
 16 ESOL   181 F    Z     FZ       -0.5569E-04  1.620      0.4659E-04 0.4600
 17 ESOL   182 M    X     MX       -0.5593E-04  1.620      0.4662E-04 0.4600
 18 ESOL   183 M    Y     MY       -0.8732E-04 0.3400      0.1402E-03  1.560
 19 ESOL   184 M    Z     MZ       -0.8135E-03  1.540      0.5006E-03 0.3400
 20 ESOL   149 F    X     FX       -0.3166E-02 0.2400      0.4193E-02  1.540
 21 ESOL   150 F    Z     FZ       -0.1283E-02  1.360      0.1086E-02  1.720
 22 ESOL   151 F    Y     FY       -0.2049E-02  1.380      0.1102E-02 0.4000
 23 ESOL   153 F    X     FX       -0.5781E-02 0.4800      0.8175E-02  1.500
 24 ESOL   154 F    Z     FZ       -0.8231E-03 0.6600      0.1176E-02  1.700
 25 ESOL   155 F    Y     FY       -0.8131E-03  1.040      0.1503E-02  1.380
 26 ESOL   156 F    X     FX       -0.9680E-02 0.4800      0.1362E-01  1.580
 27 ESOL   157 F    Y     FY       -0.4322E-03  1.700      0.4443E-03 0.4800
 28 ESOL   158 F    Z     FZ       -0.1576E-02 0.4000      0.2074E-02  1.460
 29 ESOL   161 F    X     FX       -0.6801E-03 0.4000      0.1107E-02  1.540
 30 ESOL   162 F    Z     FZ       -0.4081E-04 0.4600      0.4056E-04  1.640
 31 ESOL   163 F    Y     FY       -0.2178E-03 0.4600      0.1482E-03  1.660
 32 ESOL   164 F    Z     FZ       -0.5017E-03  1.560      0.3594E-03 0.5200
 33 ESOL   165 F    X     FX       -0.2939E-02 0.1800      0.3641E-02  1.360
 34 ESOL   167 F    Z     FZ       -0.2487E-02  1.580      0.1812E-02 0.4800
 35 ESOL   169 F    X     FX       -0.4002E-02 0.4000      0.6547E-02  1.540
 36 ESOL   170 F    Z     FZ       -0.2591E-03 0.4000      0.4152E-03  1.500
 37 ESOL   171 F    X     FX       -0.4078E-02 0.4000      0.6688E-02  1.540
 38 ESOL   172 F    Z     FZ       -0.2212E-03 0.5200      0.2746E-03  1.600
 39 ESOL   152 F    Y     FY       -0.1275E-04 0.2600      0.1503E-04  1.480
 40 ESOL   159 F    Y     FY       -0.1696E-04  1.720      0.1498E-04 0.4800
 41 ESOL   168 F    Y     FY       -0.7335E-04  1.720      0.6521E-04 0.4800
 42 ESOL   166 F    Y     FY       -0.2606E-04 0.4600      0.3037E-04  1.660
 43 ESOL   160 F    Y     FY       -0.5818E-05 0.4800      0.7361E-05  1.680

ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2ecx.db
 FOR POSSIBLE RESUME FROM THIS POINT


***** ROUTINE COMPLETED *****  CP =      15101.050


*****  ANSYS SOLUTION ROUTINE  *****

PERFORM AN EXPANSION PASS


EXPAND   100 SOLUTIONS
  IN THE RANGE FROM  0.10000     TO  0.20000
  CALCULATE ELEMENT RESULTS AS WELL AS THE NODAL DOF SOLUTION

PRINT BASI ITEMS WITH A FREQUENCY OF NONE
  FOR ALL APPLICABLE ENTITIES

*****  ANSYS SOLVE    COMMAND  *****
1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC      02:24:10  OCT 10, 1995 CP=  15101.110
FOR SUPPORT CALL                  PHONE                      FAX

 Time-history analysis of coupled system (presurizer spray line)

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**
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                    S O L U T I O N   O P T I O N S

  PROBLEM DIMENSIONALITY. . . . . . . . . . . . . .3-D
  DEGREES OF FREEDOM. . . . . . UX   UY   UZ   ROTX ROTY ROTZ
  ANALYSIS TYPE . . . . . . . . . . . . . . . . . .TRANSIENT
     SOLUTION METHOD. . . . . . . . . . . . . . . .REDUCED
     EXPANSION PASS . . . . . . . . . . . . . . . .ON

                    L O A D   S T E P   O P T I O N S

  LOAD STEP NUMBER. . . . . . . . . . . . . . . . .  1
  NUMBER OF SOLUTIONS TO BE EXPANDED. . . . . . . .  100
     RANGE. . . . . . . . . . . . . . . . . . . . . 0.10000     TO  0.20000
  ELEMENT RESULTS CALCULATION . . . . . . . . . . .  ON
  PRINT OUTPUT CONTROLS
     ITEM      FREQUENCY   COMPONENT
     BASI        NONE
  DATABASE OUTPUT CONTROLS
     ITEM      FREQUENCY   COMPONENT
     NSOL        LAST


  *** ELEMENT RESULT CALCULATION TIMES
 TYPE  NUMBER    ENAME       TOTAL CP  AVE CP

    1      120  PIPE16         0.669    0.006
    2       22  PIPE18         0.192    0.009
    3       10  COMBIN14       0.010    0.001
    4       12  COMBIN14       0.020    0.002
    5       11  COMBIN14       0.010    0.001
    6        3  COMBIN14       0.000    0.000
    7        3  COMBIN14       0.000    0.000
    8        3  COMBIN14       0.010    0.003
   30       31  MASS21         0.030    0.001
   71       12  BEAM4          0.060    0.005
   72        5  MASS21         0.011    0.002

  *** NODAL LOAD CALCULATION TIMES
 TYPE  NUMBER    ENAME       TOTAL CP  AVE CP

    1      120  PIPE16         0.030    0.000
    2       22  PIPE18         0.010    0.000
    3       10  COMBIN14       0.010    0.001
    4       12  COMBIN14       0.000    0.000
    5       11  COMBIN14       0.000    0.000
    6        3  COMBIN14       0.000    0.000
    7        3  COMBIN14       0.000    0.000
    8        3  COMBIN14       0.000    0.000
   30       31  MASS21         0.020    0.001
   71       12  BEAM4          0.010    0.001
   72        5  MASS21         0.000    0.000


*** ANSYS BINARY FILE STATISTICS
 BUFFER SIZE USED=  4096
      33.078 MB WRITTEN ON RESULTS FILE: pb2ecx.rst

ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2ecx.db
 FOR POSSIBLE RESUME FROM THIS POINT

FINISH SOLUTION PROCESSING


***** ROUTINE COMPLETED *****  CP =      15313.800


1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC      02:33:50  OCT 10, 1995 CP=  15313.810
FOR SUPPORT CALL                  PHONE                      FAX

 Time-history analysis of coupled system (presurizer spray line)

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


        ***** TIME-HISTORY POSTPROCESSOR (POST26) *****

ALL POST26 SPECIFICATIONS ARE RESET TO INITIAL DEFAULTS

MAXIMUM NUMBER OF VARIABLES= 43

VARIABLE  2  IS AT ELEMENT     143  NODE=        1
   ITEM= F    COMP= X      NAME= FX

VARIABLE  3  IS AT ELEMENT     144  NODE=        1
   ITEM= F    COMP= Y      NAME= FY

VARIABLE  4  IS AT ELEMENT     145  NODE=        1
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   ITEM= F    COMP= Z     NAME= FZ

VARIABLE  5  IS AT ELEMENT     146  NODE=       1
   ITEM= M    COMP= X     NAME= MX

VARIABLE  6  IS AT ELEMENT     147  NODE=       1
   ITEM= M    COMP= Y     NAME= MY

VARIABLE  7  IS AT ELEMENT     148  NODE=       1
   ITEM= M    COMP= Z     NAME= MZ

VARIABLE  8  IS AT ELEMENT     173  NODE=      87
   ITEM= F    COMP= X     NAME= FX

VARIABLE  9  IS AT ELEMENT     174  NODE=      87
   ITEM= F    COMP= Y     NAME= FY

VARIABLE 10  IS AT ELEMENT     175  NODE=      87
   ITEM= F    COMP= Z     NAME= FZ

VARIABLE 11  IS AT ELEMENT     176  NODE=      87
   ITEM= M    COMP= X     NAME= MX

VARIABLE 12  IS AT ELEMENT     177  NODE=      87
   ITEM= M    COMP= Y     NAME= MY

VARIABLE 13  IS AT ELEMENT     178  NODE=      87
   ITEM= M    COMP= Z     NAME= MZ

VARIABLE 14  IS AT ELEMENT     179  NODE=     130
   ITEM= F    COMP= X     NAME= FX

VARIABLE 15  IS AT ELEMENT     180  NODE=     130
   ITEM= F    COMP= Y     NAME= FY

VARIABLE 16  IS AT ELEMENT     181  NODE=     130
   ITEM= F    COMP= Z     NAME= FZ

VARIABLE 17  IS AT ELEMENT     182  NODE=     130
   ITEM= M    COMP= X     NAME= MX

VARIABLE 18  IS AT ELEMENT     183  NODE=     130
   ITEM= M    COMP= Y     NAME= MY

VARIABLE 19  IS AT ELEMENT     184  NODE=     130
   ITEM= M    COMP= Z     NAME= MZ

VARIABLE 20  IS AT ELEMENT     149  NODE=       9
   ITEM= F    COMP= X     NAME= FX

VARIABLE 21  IS AT ELEMENT     150  NODE=      10
   ITEM= F    COMP= Z     NAME= FZ

VARIABLE 22  IS AT ELEMENT     151  NODE=      15
   ITEM= F    COMP= Y     NAME= FY

VARIABLE 23  IS AT ELEMENT     153  NODE=      23
   ITEM= F    COMP= X     NAME= FX

VARIABLE 24  IS AT ELEMENT     154  NODE=      28
   ITEM= F    COMP= Z     NAME= FZ

VARIABLE 25  IS AT ELEMENT     155  NODE=      37
   ITEM= F    COMP= Y     NAME= FY

VARIABLE 26  IS AT ELEMENT     156  NODE=      39
   ITEM= F    COMP= X     NAME= FX

VARIABLE 27  IS AT ELEMENT     157  NODE=      44
   ITEM= F    COMP= Y     NAME= FY

VARIABLE 28  IS AT ELEMENT     158  NODE=      45
   ITEM= F    COMP= Z     NAME= FZ

VARIABLE 29  IS AT ELEMENT     161  NODE=     124
   ITEM= F    COMP= X     NAME= FX

VARIABLE 30  IS AT ELEMENT     162  NODE=     129
   ITEM= F    COMP= Z     NAME= FZ

VARIABLE 31  IS AT ELEMENT     163  NODE=      52
   ITEM= F    COMP= Y     NAME= FY

VARIABLE 32  IS AT ELEMENT     164  NODE=      54
   ITEM= F    COMP= Z     NAME= FZ

VARIABLE 33  IS AT ELEMENT     165  NODE=      57
   ITEM= F    COMP= X     NAME= FX

VARIABLE 34  IS AT ELEMENT     167  NODE=      73
   ITEM= F    COMP= Z     NAME= FZ
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VARIABLE 35  IS AT ELEMENT     169  NODE=     131
   ITEM= F    COMP= X     NAME= FX

VARIABLE 36  IS AT ELEMENT     170  NODE=     131
   ITEM= F    COMP= Z     NAME= FZ

VARIABLE 37  IS AT ELEMENT     171  NODE=     133
   ITEM= F    COMP= X     NAME= FX

VARIABLE 38  IS AT ELEMENT     172  NODE=     133
   ITEM= F    COMP= Z     NAME= FZ

VARIABLE 39  IS AT ELEMENT     152  NODE=      14
   ITEM= F    COMP= Y     NAME= FY

VARIABLE 40  IS AT ELEMENT     159  NODE=      53
   ITEM= F    COMP= Y     NAME= FY

VARIABLE 41  IS AT ELEMENT     168  NODE=      61
   ITEM= F    COMP= Y     NAME= FY

VARIABLE 42  IS AT ELEMENT     166  NODE=      78
   ITEM= F    COMP= Y     NAME= FY

VARIABLE 43  IS AT ELEMENT     160  NODE=      79
   ITEM= F    COMP= Y     NAME= FY

STORAGE COMPLETE FOR      99 DATA POINTS
```

SUMMARY OF VARIABLES STORED THIS STEP AND EXTREME VALUES

VARI	TYPE	IDENTIFIERS		NAME	MINIMUM	AT TIME	MAXIMUM	AT TIME
2	ESOL	143	F X	FX	-0.3684E-01	3.600	0.5224E-01	3.920
3	ESOL	144	F Y	FY	-0.7758E-02	3.600	0.1574E-01	3.840
4	ESOL	145	F Z	FZ	-0.1824E-01	3.720	0.3757E-01	3.880
5	ESOL	146	M X	MX	-0.1382E-01	3.600	0.3345E-01	3.840
6	ESOL	147	M Y	MY	-0.2535	3.880	0.1492	3.720
7	ESOL	148	M Z	MZ	-0.7886E-01	4.000	0.9469E-01	3.800
8	ESOL	173	F X	FX	-0.2437E-01	3.960	0.3870E-01	3.660
9	ESOL	174	F Y	FY	-0.1822E-01	3.960	0.1801E-01	3.920
10	ESOL	175	F Z	FZ	-0.9009E-02	3.960	0.1037E-01	3.660
11	ESOL	176	M X	MX	-0.6710E-01	3.920	0.5117E-01	3.960
12	ESOL	177	M Y	MY	-0.3549E-01	3.960	0.5611E-01	3.660
13	ESOL	178	M Z	MZ	-0.2540E-01	3.660	0.1471E-01	3.960
14	ESOL	179	F X	FX	-0.1314E-01	3.960	0.2219E-01	3.660
15	ESOL	180	F Y	FY	-0.3349E-02	3.640	0.4605E-02	3.960
16	ESOL	181	F Z	FZ	-0.3813E-02	3.960	0.2179E-02	3.760
17	ESOL	182	M X	MX	-0.3761E-02	3.960	0.2130E-02	3.760
18	ESOL	183	M Y	MY	-0.2890E-02	3.960	0.5657E-02	3.660
19	ESOL	184	M Z	MZ	-0.3047E-01	3.660	0.1832E-01	3.960
20	ESOL	149	F X	FX	-0.1993	3.980	0.1671	3.740
21	ESOL	150	F Z	FZ	-0.7395E-01	3.960	0.3668E-01	3.680
22	ESOL	151	F Y	FY	-0.9689E-01	3.920	0.5240E-01	3.620
23	ESOL	153	F X	FX	-0.9390E-01	3.440	0.1671	3.840
24	ESOL	154	F Z	FZ	-0.3349E-01	3.860	0.1814E-01	3.640
25	ESOL	155	F Y	FY	-0.4217E-01	3.660	0.8658E-01	3.940
26	ESOL	156	F X	FX	-0.1582	3.600	0.2649	3.920
27	ESOL	157	F Y	FY	-0.2183E-01	3.980	0.2127E-01	3.680
28	ESOL	158	F Z	FZ	-0.3796E-01	3.660	0.7430E-01	3.960
29	ESOL	161	F X	FX	-0.3247E-01	3.960	0.3800E-01	3.660
30	ESOL	162	F Z	FZ	-0.4145E-02	3.760	0.5707E-02	3.960
31	ESOL	163	F Y	FY	-0.1739E-01	3.660	0.2179E-01	4.000
32	ESOL	164	F Z	FZ	-0.2059E-01	4.000	0.8059E-02	3.600
33	ESOL	165	F X	FX	-0.3303	3.960	0.3501	3.660
34	ESOL	167	F Z	FZ	-0.5617E-01	3.920	0.2819E-01	3.600
35	ESOL	169	F X	FX	-0.1218	3.420	0.2383	3.660
36	ESOL	170	F Z	FZ	-0.1621E-01	3.960	0.1859E-01	3.920
37	ESOL	171	F X	FX	-0.1498	3.960	0.2466	3.660
38	ESOL	172	F Z	FZ	-0.6956E-02	3.680	0.9632E-02	3.960
39	ESOL	152	F Y	FY	-0.8107E-03	3.980	0.7880E-03	3.800
40	ESOL	159	F Y	FY	-0.7193E-03	3.880	0.4167E-03	3.680
41	ESOL	168	F Y	FY	-0.3585E-02	3.880	0.2285E-02	3.680
42	ESOL	166	F Y	FY	-0.6108E-03	3.660	0.8833E-03	3.940
43	ESOL	160	F Y	FY	-0.5080E-03	3.960	0.6768E-03	3.920

POST26 SUMMARY OF VARIABLE EXTREME VALUES

VARI	TYPE	IDENTIFIERS		NAME	MINIMUM	AT TIME	MAXIMUM	AT TIME
2	ESOL	143	F X	FX	-0.3684E-01	3.600	0.5224E-01	3.920
3	ESOL	144	F Y	FY	-0.7758E-02	3.600	0.1574E-01	3.840
4	ESOL	145	F Z	FZ	-0.1824E-01	3.720	0.3757E-01	3.880
5	ESOL	146	M X	MX	-0.1382E-01	3.600	0.3345E-01	3.840
6	ESOL	147	M Y	MY	-0.2535	3.880	0.1492	3.720
7	ESOL	148	M Z	MZ	-0.7886E-01	4.000	0.9469E-01	3.800
8	ESOL	173	F X	FX	-0.2437E-01	3.960	0.3870E-01	3.660
9	ESOL	174	F Y	FY	-0.1822E-01	3.960	0.1801E-01	3.920
10	ESOL	175	F Z	FZ	-0.9009E-02	3.960	0.1037E-01	3.660
11	ESOL	176	M X	MX	-0.6710E-01	3.920	0.5117E-01	3.960
12	ESOL	177	M Y	MY	-0.3549E-01	3.960	0.5611E-01	3.660
13	ESOL	178	M Z	MZ	-0.2540E-01	3.660	0.1471E-01	3.960

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 14 ESOL   179 F    X    FX        -0.1314E-01  3.960     0.2219E-01  3.660
 15 ESOL   180 F    Y    FY        -0.3349E-02  3.640     0.4605E-02  3.960
 16 ESOL   181 F    Z    FZ        -0.3813E-02  3.960     0.2179E-02  3.760
 17 ESOL   182 M    X    MX        -0.3761E-02  3.960     0.2130E-02  3.760
 18 ESOL   183 M    Y    MY        -0.2890E-02  3.960     0.5657E-02  3.660
 19 ESOL   184 M    Z    MZ        -0.3047E-01  3.660     0.1832E-01  3.960
 20 ESOL   149 F    X    FX        -0.1993      3.980     0.1671      3.740
 21 ESOL   150 F    Z    FZ        -0.7395E-01  3.900     0.3668E-01  3.880
 22 ESOL   151 F    Y    FY        -0.9689E-01  3.920     0.5240E-01  3.620
 23 ESOL   153 F    X    FX        -0.9390E-01  3.440     0.1671      3.840
 24 ESOL   154 F    Z    FZ        -0.3349E-01  3.860     0.1814E-01  3.640
 25 ESOL   155 F    Y    FY        -0.4217E-01  3.660     0.8658E-01  3.940
 26 ESOL   156 F    X    FX        -0.1582      3.600     0.2649      3.920
 27 ESOL   157 F    Y    FY        -0.2183E-01  3.980     0.2127E-01  3.680
 28 ESOL   158 F    Z    FZ        -0.3796E-01  3.660     0.7430E-01  3.960
 29 ESOL   161 F    X    FX        -0.2247E-01  3.960     0.3800E-01  3.660
 30 ESOL   162 F    Z    FZ        -0.4145E-02  3.760     0.5707E-02  3.960
 31 ESOL   163 F    Y    FY        -0.1739E-01  3.660     0.2179E-01  4.000
 32 ESOL   164 F    Z    FZ        -0.2059E-01  4.000     0.8059E-02  3.600
 33 ESOL   165 F    X    FX        -0.3303      3.960     0.3501      3.660
 34 ESOL   167 F    Z    FZ        -0.5617E-01  3.920     0.2819E-01  3.600
 35 ESOL   169 F    X    FX        -0.1218      3.420     0.2383      3.660
 36 ESOL   170 F    Z    FZ        -0.1621E-01  3.960     0.1869E-01  3.840
 37 ESOL   171 F    X    FX        -0.1498      3.960     0.2466      3.660
 38 ESOL   172 F    Z    FZ        -0.6956E-02  3.680     0.9632E-02  3.960
 39 ESOL   152 F    Y    FY        -0.8107E-03  3.980     0.7880E-03  3.800
 40 ESOL   159 F    Y    FY        -0.7193E-03  3.880     0.4167E-03  3.680
 41 ESOL   168 F    Y    FY        -0.3585E-02  3.880     0.2285E-02  3.680
 42 ESOL   166 F    Y    FY        -0.6108E-03  3.660     0.8833E-03  3.940
 43 ESOL   160 F    Y    FY        -0.5080E-03  3.960     0.6768E-03  3.920

ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2ecx.db
 FOR POSSIBLE RESUME FROM THIS POINT


***** ROUTINE COMPLETED *****  CP =      15327.100



*****  ANSYS SOLUTION ROUTINE  *****

 PERFORM AN EXPANSION PASS


 EXPAND   100 SOLUTIONS
  IN THE RANGE FROM  0.20000      TO  0.30000
  CALCULATE ELEMENT RESULTS AS WELL AS THE NODAL DOF SOLUTION

 PRINT BASI ITEMS WITH A FREQUENCY OF NONE
   FOR ALL APPLICABLE ENTITIES

*****  ANSYS SOLVE    COMMAND  *****
1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC     02:34:24  OCT 10, 1995 CP=  15327.130
FOR SUPPORT CALL                  PHONE                      FAX

 Time-history analysis of cou .ed system (presurizer spray line)

**ANSYS VERSION FOR EDUCATIO.'AL PURPOSES ONLY**

                    S O L U T . O N   O P T I O N S

   PROBLEM DIMENSIONALITY. . . . . .3-D
   DEGREES OF FREEDOM. . . . . UX   UY   UZ   ROTX ROTY ROTZ
   ANALYSIS TYPE . . . . . .TRANSIENT
      SOLUTION METHOD. . . . . .REDUCED
      EXPANSION PASS . . . . . .ON

                    L O A D   S T E P   O P T I O N S

   LOAD STEP NUMBER. . . . . 1
   NUMBER OF SOLUTIONS TO BE EXPANDED. . . . . 100
      RANGE. . . . . 0.20000      TO  0.30000
   ELEMENT RESULTS CALCULATION . . . . . ON
   PRINT OUTPUT CONTROLS
      ITEM      FREQUENCY    COMPONENT
      BASI        NONE
   DATABASE OUTPUT CONTROLS
      ITEM      FREQUENCY    COMPONENT
      NSOL        LAST


   *** ELEMENT RESULT CALCULATION TIMES
  TYPE   NUMBER    ENAME      TOTAL CP  AVE CP

     1      120   PIPE16         0.606    0.005
     2       22   PIPE18         0.159    0.007
     3       10   COMBIN14       0.040    0.004
```



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     4       12   COMBIN14       0.011    0.001
     5       11   COMBIN14       0.010    0.001
     6        3   COMBIN14       0.000    0.000
     7        3   COMBIN14       0.000    0.000
     8        3   COMBIN14       0.000    0.000
    30       31   MASS21         0.051    0.002
    71       12   BEAM4          0.051    0.004
    72        5   MASS21         0.000    0.000

   *** NODAL LOAD CALCULATION TIMES
  TYPE   NUMBER    ENAME      TOTAL CP  AVE CP

     1      120   PIPE16         0.081    0.001
     2       22   PIPE18         0.000    0.000
     3       10   COMBIN14       0.000    0.000
     4       12   COMBIN14       0.000    0.000
     5       11   COMBIN14       0.000    0.000
     6        3   COMBIN14       0.000    0.000
     7        3   COMBIN14       0.000    0.000
     8        3   COMBIN14       0.000    0.000
    30       31   MASS21         0.000    0.000
    71       12   BEAM4          0.000    0.000
    72        5   MASS21         0.000    0.000


 *** ANSYS BINARY FILE STATISTICS
 BUFFER SIZE USED=  4096
       33.078 MB WRITTEN ON RESULTS FILE: pb2ecx.rst

 ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2ecx.db
  FOR POSSIBLE RESUME FROM THIS POINT

 FINISH SOLUTION PROCESSING


 ***** ROUTINE COMPLETED *****  CP =      15540.020


1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
 40416-2          VERSION=SUN4SPARC     02:43:45  OCT 10, 1995 CP=  15540.040
 FOR SUPPORT CALL                  PHONE                      FAX

  Time-history analysis of coupled system (presurizer spray line)

 **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


          ***** TIME-HISTORY POSTPROCESSOR (POST26) *****

 ALL POST26 SPECIFICATIONS ARE RESET TO INITIAL DEFAULTS

 MAXIMUM NUMBER OF VARIABLES= 43

 VARIABLE  2  IS AT ELEMENT      143  NODE=         1
    ITEM= F    COMP= X      NAME= FX

 VARIABLE  3  IS AT ELEMENT      144  NODE=         1
    ITEM= F    COMP= Y      NAME= FY

 VARIABLE  4  IS AT ELEMENT      145  NODE=         1
    ITEM= F    COMP= Z      NAME= FZ

 VARIABLE  5  IS AT ELEMENT      146  NODE=         1
    ITEM= M    COMP= X      NAME= MX

 VARIABLE  6  IS AT ELEMENT      147  NODE=         1
    ITEM= M    COMP= Y      NAME= MY

 VARIABLE  7  IS AT ELEMENT      148  NODE=         1
    ITEM= M    COMP= Z      NAME= MZ

 VARIABLE  8  IS AT ELEMENT      173  NODE=        87
    ITEM= F    COMP= X      NAME= FX

 VARIABLE  9  IS AT ELEMENT      174  NODE=        87
    ITEM= F    COMP= Y      NAME= FY

 VARIABLE 10  IS AT ELEMENT      175  NODE=        87
    ITEM= F    COMP= Z      NAME= FZ

 VARIABLE 11  IS AT ELEMENT      176  NODE=        87
    ITEM= M    COMP= X      NAME= MX

 VARIABLE 12  IS AT ELEMENT      177  NODE=        87
    ITEM= M    COMP= Y      NAME= MY

 VARIABLE 13  IS AT ELEMENT      178  NODE=        87
    ITEM= M    COMP= Z      NAME= MZ
```

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VARIABLE 14  IS AT ELEMENT     179  NODE=      130
   ITEM= F    COMP= X     NAME= FX

VARIABLE 15  IS AT ELEMENT     180  NODE=      130
   ITEM= F    COMP= Y     NAME= FY

VARIABLE 16  IS AT ELEMENT     181  NODE=      130
   ITEM= F    COMP= Z     NAME= FZ

VARIABLE 17  IS AT ELEMENT     182  NODE=      130
   ITEM= M    COMP= X     NAME= MX

VARIABLE 18  IS AT ELEMENT     183  NODE=      130
   ITEM= M    COMP= Y     NAME= MY

VARIABLE 19  IS AT ELEMENT     184  NODE=      130
   ITEM= M    COMP= Z     NAME= MZ

VARIABLE 20  IS AT ELEMENT     149  NODE=        9
   ITEM= F    COMP= X     NAME= FX

VARIABLE 21  IS AT ELEMENT     150  NODE=       10
   ITEM= F    COMP= Z     NAME= FZ

VARIABLE 22  IS AT ELEMENT     151  NODE=       15
   ITEM= F    COMP= Y     NAME= FY

VARIABLE 23  IS AT ELEMENT     153  NODE=       23
   ITEM= F    COMP= X     NAME= FX

VARIABLE 24  IS AT ELEMENT     154  NODE=       28
   ITEM= F    COMP= Z     NAME= FZ

VARIABLE 25  IS AT ELEMENT     155  NODE=       37
   ITEM= F    COMP= Y     NAME= FY

VARIABLE 26  IS AT ELEMENT     156  NODE=       39
   ITEM= F    COMP= X     NAME= FX

VARIABLE 27  IS AT ELEMENT     157  NODE=       44
   ITEM= F    COMP= Y     NAME= FY

VARIABLE 28  IS AT ELEMENT     158  NODE=       45
   ITEM= F    COMP= Z     NAME= FZ

VARIABLE 29  IS AT ELEMENT     161  NODE=      124
   ITEM= F    COMP= X     NAME= FX

VARIABLE 30  IS AT ELEMENT     162  NODE=      129
   ITEM= F    COMP= Z     NAME= FZ

VARIABLE 31  IS AT ELEMENT     163  NODE=       52
   ITEM= F    COMP= Y     NAME= FY

VARIABLE 32  IS AT ELEMENT     164  NODE=       54
   ITEM= F    COMP= Z     NAME= FZ

VARIABLE 33  IS AT ELEMENT     165  NODE=       57
   ITEM= F    COMP= X     NAME= FX

VARIABLE 34  IS AT ELEMENT     167  NODE=       73
   ITEM= F    COMP= Z     NAME= FZ

VARIABLE 35  IS AT ELEMENT     169  NODE=      131
   ITEM= F    COMP= X     NAME= FX

VARIABLE 36  IS AT ELEMENT     170  NODE=      131
   ITEM= F    COMP= Z     NAME= FZ

VARIABLE 37  IS AT ELEMENT     171  NODE=      133
   ITEM= F    COMP= X     NAME= FX

VARIABLE 38  IS AT ELEMENT     172  NODE=      133
   ITEM= F    COMP= Z     NAME= FZ

VARIABLE 39  IS AT ELEMENT     152  NODE=       14
   ITEM= F    COMP= Y     NAME= FY

VARIABLE 40  IS AT ELEMENT     159  NODE=       53
   ITEM= F    COMP= Y     NAME= FY

VARIABLE 41  IS AT ELEMENT     168  NODE=       61
   ITEM= F    COMP= Y     NAME= FY

VARIABLE 42  IS AT ELEMENT     166  NODE=       78
   ITEM= F    COMP= Y     NAME= FY

VARIABLE 43  IS AT ELEMENT     160  NODE=       79
   ITEM= F    COMP= Y     NAME= FY

STORAGE COMPLETE FOR     99 DATA POINTS
```


SUMMARY OF VARIABLES STORED THIS STEP AND EXTREME VALUES

VARI	TYPE	IDENTIFIERS		NAME	MINIMUM	AT TIME	MAXIMUM	AT TIME
2	ESOL	143 F	X	FX	-0.1118	4.320	0.1478	4.460
3	ESOL	144 F	Y	FY	-0.2437E-01	4.760	0.2923E-01	4.580
4	ESOL	145 F	Z	FZ	-0.7992E-01	4.780	0.8267E-01	5.140
5	ESOL	146 M	X	MX	-0.1295	4.780	0.1393	5.120
6	ESOL	147 M	Y	MY	-0.4409	4.580	0.4584	4.260
7	ESOL	148 M	Z	MZ	-0.1080	5.580	0.1565	4.340
8	ESOL	173 F	X	FX	-0.4508E-01	4.120	0.7072E-01	4.460
9	ESOL	174 F	Y	FY	-0.4891E-01	4.680	0.4895E-01	4.560
10	ESOL	175 F	Z	FZ	-0.1323E-01	4.500	0.1910E-01	4.220
11	ESOL	176 M	X	MX	-0.1684	4.560	0.1534	4.680
12	ESOL	177 M	Y	MY	-0.6696E-01	4.120	0.1182	4.460
13	ESOL	178 M	Z	MZ	-0.4422E-01	4.460	0.2755E-01	4.120
14	ESOL	179 F	X	FX	-0.2989E-01	4.500	0.4666E-01	4.460
15	ESOL	180 F	Y	FY	-0.1530E-01	5.160	0.1556E-01	4.740
16	ESOL	181 F	Z	FZ	-0.1274E-01	4.840	0.1173E-01	5.040
17	ESOL	182 M	X	MX	-0.1248E-01	4.840	0.1151E-01	5.040
18	ESOL	183 M	Y	MY	-0.8627E-02	4.500	0.1106E-01	4.460
19	ESOL	184 M	Z	MZ	-0.6421E-01	4.460	0.4458E-01	4.500
20	ESOL	149 F	X	FX	-0.2365	5.260	0.3086	4.280
21	ESOL	150 F	Z	FZ	-0.2118	5.120	0.1919	4.760
22	ESOL	151 F	Y	FY	-0.2541	4.500	0.2389	5.500
23	ESOL	153 F	X	FX	-0.2413	4.160	0.3592	4.620
24	ESOL	154 F	Z	FZ	-0.1498	5.120	0.1359	4.780
25	ESOL	155 F	Y	FY	-0.1899	4.840	0.2207	5.180
26	ESOL	156 F	X	FX	-0.4481	4.260	0.5364	4.700
27	ESOL	157 F	Y	FY	-0.4787E-01	4.550	0.3830E-01	5.040
28	ESOL	158 F	Z	FZ	-0.1498	4.280	0.1335	4.500
29	ESOL	161 F	X	FX	-0.5046E-01	5.420	0.8029E-01	4.460
30	ESOL	162 F	Z	FZ	-0.2015E-01	5.040	0.2286E-01	4.840
31	ESOL	163 F	Y	FY	-0.4354E-01	4.360	0.5149E-01	4.580
32	ESOL	164 F	Z	FZ	-0.5921E-01	4.640	0.4205E-01	4.840
33	ESOL	165 F	X	FX	-0.4689	5.420	0.6894	4.460
34	ESOL	167 F	Z	FZ	-0.1127	4.620	0.9100E-01	4.280
35	ESOL	169 F	X	FX	-0.2868	5.420	0.4886	4.460
36	ESOL	170 F	Z	FZ	-0.4830E-01	5.600	0.6129E-01	4.640
37	ESOL	171 F	X	FX	-0.3068	5.420	0.5249	4.460
38	ESOL	172 F	Z	FZ	-0.1930E-01	4.220	0.1851E-01	4.640
39	ESOL	152 F	Y	FY	-0.1209E-02	4.460	0.1519E-02	4.320
40	ESOL	159 F	Y	FY	-0.2015E-02	4.600	0.2018E-02	5.040
41	ESOL	168 F	Y	FY	-0.1031E-01	4.600	0.9837E-02	5.040
42	ESOL	166 F	Y	FY	-0.4517E-02	5.040	0.4509E-02	4.840
43	ESOL	160 F	Y	FY	-0.1556E-02	4.760	0.1665E-02	4.720

POST26 SUMMARY OF VARIABLE EXTREME VALUES

VARI	TYPE	IDENTIFIERS		NAME	MINIMUM	AT TIME	MAXIMUM	AT TIME
2	ESOL	143 F	X	FX	-0.1118	4.320	0.1478	4.460
3	ESOL	144 F	Y	FY	-0.2437E-01	4.760	0.2923E-01	4.580
4	ESOL	145 F	Z	FZ	-0.7992E-01	4.780	0.8267E-01	5.140
5	ESOL	146 M	X	MX	-0.1295	4.780	0.1393	5.120
6	ESOL	147 M	Y	MY	-0.4409	4.580	0.4584	4.260
7	ESOL	148 M	Z	MZ	-0.1080	5.580	0.1565	4.340
8	ESOL	173 F	X	FX	-0.4508E-01	4.120	0.7072E-01	4.460
9	ESOL	174 F	Y	FY	-0.4891E-01	4.680	0.4895E-01	4.560
10	ESOL	175 F	Z	FZ	-0.1323E-01	4.500	0.1910E-01	4.220
11	ESOL	176 M	X	MX	-0.1684	4.560	0.1534	4.680
12	ESOL	177 M	Y	MY	-0.6696E-01	4.120	0.1182	4.460
13	ESOL	178 M	Z	MZ	-0.4422E-01	4.460	0.2755E-01	4.120
14	ESOL	179 F	X	FX	-0.2989E-01	4.500	0.4666E-01	4.460
15	ESOL	180 F	Y	FY	-0.1530E-01	5.160	0.1556E-01	4.740
16	ESOL	181 F	Z	FZ	-0.1274E-01	4.840	0.1173E-01	5.040
17	ESOL	182 M	X	MX	-0.1248E-01	4.840	0.1151E-01	5.040
18	ESOL	183 M	Y	MY	-0.8627E-02	4.500	0.1106E-01	4.460
19	ESOL	184 M	Z	MZ	-0.6421E-01	4.460	0.4458E-01	4.500
20	ESOL	149 F	X	FX	-0.2365	5.260	0.3086	4.280
21	ESOL	150 F	Z	FZ	-0.2118	5.120	0.1919	4.760
22	ESOL	151 F	Y	FY	-0.2541	4.500	0.2389	5.500
23	ESOL	153 F	X	FX	-0.2413	4.160	0.3592	4.620
24	ESOL	154 F	Z	FZ	-0.1498	5.120	0.1359	4.780
25	ESOL	155 F	Y	FY	-0.1899	4.840	0.2207	5.180
26	ESOL	156 F	X	FX	-0.4481	4.260	0.5364	4.700
27	ESOL	157 F	Y	FY	-0.4787E-01	4.560	0.3830E-01	5.040
28	ESOL	158 F	Z	FZ	-0.1498	4.280	0.1335	4.500
29	ESOL	161 F	X	FX	-0.5046E-01	5.420	0.8029E-01	4.460
30	ESOL	162 F	Z	FZ	-0.2015E-01	5.040	0.2286E-01	4.840
31	ESOL	163 F	Y	FY	-0.4354E-01	4.360	0.5149E-01	4.580
32	ESOL	164 F	Z	FZ	-0.5921E-01	4.640	0.4205E-01	4.840
33	ESOL	165 F	X	FX	-0.4689	5.420	0.6894	4.460
34	ESOL	167 F	Z	FZ	-0.1127	4.620	0.9100E-01	4.280
35	ESOL	169 F	X	FX	-0.2868	5.420	0.4886	4.460
36	ESOL	170 F	Z	FZ	-0.4830E-01	5.600	0.6129E-01	4.640
37	ESOL	171 F	X	FX	-0.3068	5.420	0.5249	4.460
38	ESOL	172 F	Z	FZ	-0.1930E-01	4.220	0.1851E-01	4.640
39	ESOL	152 F	Y	FY	-0.1209E-02	4.460	0.1519E-02	4.320
40	ESOL	159 F	Y	FY	-0.2015E-02	4.600	0.2018E-02	5.040
41	ESOL	168 F	Y	FY	-0.1031E-01	4.600	0.9837E-02	5.040
42	ESOL	166 F	Y	FY	-0.4517E-02	5.040	0.4509E-02	4.840

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 43 ESOL   160 F    Y    FY       -0.1556E-02  4.760     0.1665E-02  4.720

ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2ecx.db
 FOR POSSIBLE RESUME FROM THIS POINT


***** ROUTINE COMPLETED *****  CP =      15553.670



*****  ANSYS SOLUTION ROUTINE  *****

PERFORM AN EXPANSION PASS


EXPAND   100 SOLUTIONS
 IN THE RANGE FROM  0.30000     TO  0.40000
 CALCULATE ELEMENT RESULTS AS WELL AS THE NODAL DOF SOLUTION

PRINT BASI ITEMS WITH A FREQUENCY OF NONE
  FOR ALL APPLICABLE ENTITIES

*****  ANSYS SOLVE    COMMAND  *****
1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2           VERSION=SUN4SPARC      02:44:21  OCT 10, 1995 CP=  15553.700
FOR SUPPORT CALL                  PHONE                      FAX

 Time-history analysis of coupled system (presurizer spray line)

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**

                    S O L U T I O N   O P T I O N S

  PROBLEM DIMENSIONALITY. . . . . . . . . . . . . .3-D
  DEGREES OF FREEDOM. . . . . .  UX   UY   UZ   ROTX ROTY ROTZ
  ANALYSIS TYPE . . . . . . . . . . . . . . . . . .TRANSIENT
     SOLUTION METHOD. . . . . . . . . . . . . . . .REDUCED
     EXPANSION PASS . . . . . . . . . . . . . . . .ON

                  L O A D   S T E P   O P T I O N S

  LOAD STEP NUMBER. . . . . . . . . . . . . . . . .  1
  NUMBER OF SOLUTIONS TO BE EXPANDED. . . . . . . .  100
     RANGE. . . . . . . . . . . . . . . . . . . . .  0.30000     TO  0.40000
  ELEMENT RESULTS CALCULATION . . . . . . . . . . .  ON
  PRINT OUTPUT CONTROLS
     ITEM      FREQUENCY   COMPONENT
     BASI      NONE
  DATABASE OUTPUT CONTROLS
     ITEM      FREQUENCY   COMPONENT
     NSOL      LAST


   *** ELEMENT RESULT CALCULATION TIMES
 TYPE  NUMBER    ENAME      TOTAL CP  AVE CP

    1     120   PIPE16        0.542    0.005
    2      22   PIPE18        0.208    0.009
    3      10   COMBIN14      0.020    0.002
    4      12   COMBIN14      0.000    0.000
    5      11   COMBIN14      0.010    0.001
    6       3   COMBIN14      0.010    0.003
    7       3   COMBIN14      0.000    0.000
    8       3   COMBIN14      0.000    0.000
   30      31   MASS21        0.020    0.001
   71      12   BEAM4         0.040    0.003
   72       5   MASS21        0.010    0.002

   *** NODAL LOAD CALCULATION TIMES
 TYPE  NUMBER    ENAME      TOTAL CP  AVE CP

    1     120   PIPE16        0.089    0.001
    2      22   PIPE18        0.000    0.000
    3      10   COMBIN14      0.000    0.000
    4      12   COMBIN14      0.021    0.002
    5      11   COMBIN14      0.000    0.000
    6       3   COMBIN14      0.000    0.000
    7       3   COMBIN14      0.000    0.000
    8       3   COMBIN14      0.000    0.000
   30      31   MASS21        0.010    0.000
   71      12   BEAM4         0.000    0.000
   72       5   MASS21        0.010    0.002


*** ANSYS BINARY FILE STATISTICS
 BUFFER SIZE USED=  4096
      33.078 MB WRITTEN ON RESULTS FILE: pb2ecx.rst
```



```
ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2ecx.db
 FOR POSSIBLE RESUME FROM THIS POINT

FINISH SOLUTION PROCESSING


***** ROUTINE COMPLETED *****  CP =      15765.840


1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2           VERSION=SUN4SPARC      02:53:53  OCT 10, 1995 CP=  15765.860
FOR SUPPORT CALL                  PHONE                      FAX

 Time-history analysis of coupled system (presurizer spray line)

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


        ***** TIME-HISTORY POSTPROCESSOR (POST26) *****

ALL POST26 SPECIFICATIONS ARE RESET TO INITIAL DEFAULTS

MAXIMUM NUMBER OF VARIABLES= 43

VARIABLE  2  IS AT ELEMENT      143  NODE=         1
   ITEM= F    COMP= X      NAME= FX

VARIABLE  3  IS AT ELEMENT      144  NODE=         1
   ITEM= F    COMP= Y      NAME= FY

VARIABLE  4  IS AT ELEMENT      145  NODE=         1
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE  5  IS AT ELEMENT      146  NODE=         1
   ITEM= M    COMP= X      NAME= MX

VARIABLE  6  IS AT ELEMENT      147  NODE=         1
   ITEM= M    COMP= Y      NAME= MY

VARIABLE  7  IS AT ELEMENT      148  NODE=         1
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE  8  IS AT ELEMENT      173  NODE=        87
   ITEM= F    COMP= X      NAME= FX

VARIABLE  9  IS AT ELEMENT      174  NODE=        87
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 10  IS AT ELEMENT      175  NODE=        87
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 11  IS AT ELEMENT      176  NODE=        87
   ITEM= M    COMP= X      NAME= MX

VARIABLE 12  IS AT ELEMENT      177  NODE=        87
   ITEM= M    COMP= Y      NAME= MY

VARIABLE 13  IS AT ELEMENT      178  NODE=        87
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE 14  IS AT ELEMENT      179  NODE=       130
   ITEM= F    COMP= X      NAME= FX

VARIABLE 15  IS AT ELEMENT      180  NODE=       130
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 16  IS AT ELEMENT      181  NODE=       130
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 17  IS AT ELEMENT      182  NODE=       130
   ITEM= M    COMP= X      NAME= MX

VARIABLE 18  IS AT ELEMENT      183  NODE=       130
   ITEM= M    COMP= Y      NAME= MY

VARIABLE 19  IS AT ELEMENT      184  NODE=       130
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE 20  IS AT ELEMENT      149  NODE=         9
   ITEM= F    COMP= X      NAME= FX

VARIABLE 21  IS AT ELEMENT      150  NODE=        10
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 22  IS AT ELEMENT      151  NODE=        15
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 23  IS AT ELEMENT      153  NODE=        23
   ITEM= F    COMP= X      NAME= FX
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 VARIABLE 24  IS AT ELEMENT      154  NODE=        28
    ITEM= F     COMP= Z      NAME= FZ

 VARIABLE 25  IS AT ELEMENT      155  NODE=        37
    ITEM= F     COMP= Y      NAME= FY

 VARIABLE 26  IS AT ELEMENT      156  NODE=        39
    ITEM= F     COMP= X      NAME= FX

 VARIABLE 27  IS AT ELEMENT      157  NODE=        44
    ITEM= F     COMP= Y      NAME= FY

 VARIABLE 28  IS AT ELEMENT      158  NODE=        45
    ITEM= F     COMP= Z      NAME= FZ

 VARIABLE 29  IS AT ELEMENT      161  NODE=       124
    ITEM= F     COMP= X      NAME= FX

 VARIABLE 30  IS AT ELEMENT      162  NODE=       129
    ITEM= F     COMP= Z      NAME= FZ

 VARIABLE 31  IS AT ELEMENT      163  NODE=        52
    ITEM= F     COMP= Y      NAME= FY

 VARIABLE 32  IS AT ELEMENT      164  NODE=        54
    ITEM= F     COMP= Z      NAME= FZ

 VARIABLE 33  IS AT ELEMENT      165  NODE=        57
    ITEM= F     COMP= X      NAME= FX

 VARIABLE 34  IS AT ELEMENT      167  NODE=        73
    ITEM= F     COMP= Z      NAME= FZ

 VARIABLE 35  IS AT ELEMENT      169  NODE=       131
    ITEM= F     COMP= X      NAME= FX

 VARIABLE 36  IS AT ELEMENT      170  NODE=       131
    ITEM= F     COMP= Z      NAME= FZ

 VARIABLE 37  IS AT ELEMENT      171  NODE=       133
    ITEM= F     COMP= X      NAME= FX

 VARIABLE 38  IS AT ELEMENT      172  NODE=       133
    ITEM= F     COMP= Z      NAME= FZ

 VARIABLE 39  IS AT ELEMENT      152  NODE=        14
    ITEM= F     COMP= Y      NAME= FY

 VARIABLE 40  IS AT ELEMENT      159  NODE=        53
    ITEM= F     COMP= Y      NAME= FY

 VARIABLE 41  IS AT ELEMENT      168  NODE=        61
    ITEM= F     COMP= Y      NAME= FY

 VARIABLE 42  IS AT ELEMENT      166  NODE=        78
    ITEM= F     COMP= Y      NAME= FY

 VARIABLE 43  IS AT ELEMENT      160  NODE=        79
    ITEM= F     COMP= Y      NAME= FY

 STORAGE COMPLETE FOR      99 DATA POINTS

         SUMMARY OF VARIABLES STORED THIS STEP AND EXTREME VALUES
 VARI TYPE     IDENTIFIERS      NAME     MINIMUM      AT TIME     MAXIMUM     AT TIME

   2 ESOL    143 F     X      FX       -0.8621E-01   7.620      0.8652E-01   6.360
   3 ESOL    144 F     Y      FY       -0.1956E-01   7.520      0.2041E-01   6.500
   4 ESOL    145 F     Z      FZ       -0.5096E-01   7.480      0.4457E-01   7.100
   5 ESOL    146 M     X      MX       -0.7044E-01   7.460      0.7420E-01   7.820
   6 ESOL    147 M     Y      MY       -0.2770       7.180      0.2571       6.100
   7 ESOL    148 M     Z      MZ       -0.1261       7.480      0.1632       6.520
   8 ESOL    173 F     X      FX       -0.5198E-01   6.840      0.6348E-01   6.880
   9 ESOL    174 F     Y      FY       -0.4399E-01   6.940      0.4281E-01   6.980
  10 ESOL    175 F     Z      FZ       -0.1166E-01   7.260      0.1377E-01   6.960
  11 ESOL    176 M     X      MX       -0.1398       6.980      0.1502       6.940
  12 ESOL    177 M     Y      MY       -0.6727E-01   6.840      0.1075       6.880
  13 ESOL    178 M     Z      MZ       -0.4244E-01   6.880      0.3197E-01   6.840
  14 ESOL    179 F     X      FX       -0.3118E-01   6.840      0.4364E-01   6.880
  15 ESOL    180 F     Y      FY       -0.1121E-01   7.060      0.1131E-01   7.240
  16 ESOL    181 F     Z      FZ       -0.9559E-02   7.260      0.1021E-01   7.060
  17 ESOL    182 M     X      MX       -0.9411E-02   7.260      0.1004E-01   7.060
  18 ESOL    183 M     Y      MY       -0.7110E-02   6.920      0.1122E-01   6.880
  19 ESOL    184 M     Z      MZ       -0.6098E-01   6.880      0.4330E-01   6.920
  20 ESOL    149 F     X      FX       -0.2209       6.340      0.2367       6.500
  21 ESOL    150 F     Z      FZ       -0.1105       7.860      0.1130       6.120
  22 ESOL    151 F     Y      FY       -0.1299       7.160      0.1338       6.140
  23 ESOL    153 F     X      FX       -0.1671       7.520      0.2341       7.320
  24 ESOL    154 F     Z      FZ       -0.7791E-01   7.800      0.7306E-01   7.440
  25 ESOL    155 F     Y      FY       -0.1151       6.120      0.1056       7.820
  26 ESOL    156 F     X      FX       -0.2725       7.620      0.3551       7.220
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  27 ESOL    157 F     Y      FY       -0.2629E-01   7.080      0.3698E-01   6.900
  28 ESOL    158 F     Z      FZ       -0.7773E-01   6.080      0.9728E-01   7.180
  29 ESOL    161 F     X      FX       -0.5618E-01   6.840      0.7277E-01   6.880
  30 ESOL    162 F     Z      FZ       -0.1680E-01   7.060      0.1638E-01   7.020
  31 ESOL    163 F     Y      FY       -0.3277E-01   6.480      0.2191E-01   7.120
  32 ESOL    164 F     Z      FZ       -0.3781E-01   7.060      0.4331E-01   7.020
  33 ESOL    165 F     X      FX       -0.4605       6.840      0.5917       6.880
  34 ESOL    167 F     Z      FZ       -0.7784E-01   7.220      0.5556E-01   7.620
  35 ESOL    169 F     X      FX       -0.3228       6.840      0.4125       6.880
  36 ESOL    170 F     Z      FZ       -0.4402E-01   6.940      0.4570E-01   7.060
  37 ESOL    171 F     X      FX       -0.3737       6.840      0.4572       6.880
  38 ESOL    172 F     Z      FZ       -0.1216E-01   6.900      0.1281E-01   7.180
  39 ESOL    152 F     Y      FY       -0.1194E-02   6.700      0.1428E-02   6.520
  40 ESOL    159 F     Y      FY       -0.1385E-02   7.100      0.1405E-02   6.900
  41 ESOL    168 F     Y      FY       -0.6786E-02   7.100      0.7618E-02   6.900
  42 ESOL    166 F     Y      FY       -0.2019E-02   6.200      0.2654E-02   7.120
  43 ESOL    160 F     Y      FY       -0.1559E-02   6.940      0.1361E-02   6.980

         POST26 SUMMARY OF VARIABLE EXTREME VALUES
 VARI TYPE     IDENTIFIERS      NAME     MINIMUM      AT TIME     MAXIMUM     AT TIME

   2 ESOL    143 F     X      FX       -0.8621E-01   7.620      0.8652E-01   6.360
   3 ESOL    144 F     Y      FY       -0.1956E-01   7.520      0.2041E-01   6.500
   4 ESOL    145 F     Z      FZ       -0.5096E-01   7.480      0.4457E-01   7.100
   5 ESOL    146 M     X      MX       -0.7044E-01   7.460      0.7420E-01   7.820
   6 ESOL    147 M     Y      MY       -0.2770       7.180      0.2571       6.100
   7 ESOL    148 M     Z      MZ       -0.1261       7.480      0.1632       6.520
   8 ESOL    173 F     X      FX       -0.5198E-01   6.840      0.6348E-01   6.880
   9 ESOL    174 F     Y      FY       -0.4399E-01   6.940      0.4281E-01   6.980
  10 ESOL    175 F     Z      FZ       -0.1166E-01   7.260      0.1377E-01   6.960
  11 ESOL    176 M     X      MX       -0.1398       6.980      0.1502       6.940
  12 ESOL    177 M     Y      MY       -0.6727E-01   6.840      0.1075       6.880
  13 ESOL    178 M     Z      MZ       -0.4244E-01   6.880      0.3197E-01   6.840
  14 ESOL    179 F     X      FX       -0.3118E-01   6.840      0.4364E-01   6.880
  15 ESOL    180 F     Y      FY       -0.1121E-01   7.060      0.1131E-01   7.240
  16 ESOL    181 F     Z      FZ       -0.9559E-02   7.260      0.1021E-01   7.060
  17 ESOL    182 M     X      MX       -0.9411E-02   7.260      0.1004E-01   7.060
  18 ESOL    183 M     Y      MY       -0.7110E-02   6.920      0.1122E-01   6.880
  19 ESOL    184 M     Z      MZ       -0.6098E-01   6.880      0.4330E-01   6.920
  20 ESOL    149 F     X      FX       -0.2209       6.340      0.2367       6.500
  21 ESOL    150 F     Z      FZ       -0.1105       7.860      0.1130       6.120
  22 ESOL    151 F     Y      FY       -0.1299       7.160      0.1338       6.140
  23 ESOL    153 F     X      FX       -0.1671       7.520      0.2341       7.320
  24 ESOL    154 F     Z      FZ       -0.7791E-01   7.800      0.7306E-01   7.440
  25 ESOL    155 F     Y      FY       -0.1151       6.120      0.1056       7.820
  26 ESOL    156 F     X      FX       -0.2725       7.620      0.3551       7.220
  27 ESOL    157 F     Y      FY       -0.2629E-01   7.080      0.3698E-01   6.900
  28 ESOL    158 F     Z      FZ       -0.7773E-01   6.080      0.9728E-01   7.180
  29 ESOL    161 F     X      FX       -0.5618E-01   6.840      0.7277E-01   6.880
  30 ESOL    162 F     Z      FZ       -0.1680E-01   7.060      0.1638E-01   7.020
  31 ESOL    163 F     Y      FY       -0.3277E-01   6.480      0.2191E-01   7.120
  32 ESOL    164 F     Z      FZ       -0.3781E-01   7.060      0.4331E-01   7.020
  33 ESOL    165 F     X      FX       -0.4605       6.840      0.5917       6.880
  34 ESOL    167 F     Z      FZ       -0.7784E-01   7.220      0.5556E-01   7.620
  35 ESOL    169 F     X      FX       -0.3228       6.840      0.4125       6.880
  36 ESOL    170 F     Z      FZ       -0.4402E-01   6.940      0.4570E-01   7.060
  37 ESOL    171 F     X      FX       -0.3737       6.840      0.4572       6.880
  38 ESOL    172 F     Z      FZ       -0.1216E-01   6.900      0.1281E-01   7.180
  39 ESOL    152 F     Y      FY       -0.1194E-02   6.700      0.1428E-02   6.520
  40 ESOL    159 F     Y      FY       -0.1385E-02   7.100      0.1405E-02   6.900
  41 ESOL    168 F     Y      FY       -0.6786E-02   7.100      0.7618E-02   6.900
  42 ESOL    166 F     Y      FY       -0.2019E-02   6.200      0.2654E-02   7.120
  43 ESOL    160 F     Y      FY       -0.1559E-02   6.940      0.1361E-02   6.980

 ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2ecx.db
  FOR POSSIBLE RESUME FROM THIS POINT


 ***** ROUTINE COMPLETED *****  CP =      15778.870


 *****  ANSYS SOLUTION ROUTINE  *****


 PERFORM AN EXPANSION PASS


 EXPAND   100 SOLUTIONS
  IN THE RANGE FROM  0.40000      TO  0.50000
  CALCULATE ELEMENT RESULTS AS WELL AS THE NODAL DOF SOLUTION

 PRINT BASI ITEMS WITH A FREQUENCY OF NONE
   FOR ALL APPLICABLE ENTITIES

 *****  ANSYS SOLVE     COMMAND  *****
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
 40416-2          VERSION=SUN4SPARC      02:54:23  OCT 10, 1995 CP=   15778.900
 FOR SUPPORT CALL                    PHONE                          FAX
```

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 Time-history analysis of coupled system (presurizer spray line)

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**

                    S O L U T I O N   O P T I O N S

  PROBLEM DIMENSIONALITY. . . . . . . . . . . . . .3-D
  DEGREES OF FREEDOM. . . . . . UX   UY   UZ   ROTX ROTY ROTZ
  ANALYSIS TYPE . . . . . . . . . . . . . . . . . .TRANSIENT
     SOLUTION METHOD. . . . . . . . . . . . . . . .REDUCED
     EXPANSION PASS . . . . . . . . . . . . . . . .ON

                    L O A D   S T E P   O P T I O N S

  LOAD STEP NUMBER. . . . . . . . . . . . . . . . .  1
  NUMBER OF SOLUTIONS TO BE EXPANDED. . . . . . . .  100
     RANGE. . . . . . . . . . . . . . . . . . . . . 0.40000     TO  0.50000
  ELEMENT RESULTS CALCULATION . . . . . . . . . . .  ON
  PRINT OUTPUT CONTROLS
     ITEM       FREQUENCY    COMPONENT
     BASI       NONE
  DATABASE OUTPUT CONTROLS
     ITEM       FREQUENCY    COMPONENT
     NSOL       LAST


   *** ELEMENT RESULT CALCULATION TIMES
  TYPE  NUMBER    ENAME       TOTAL CP  AVE CP

     1     120  PIPE16          0.550    0.005
     2      22  PIPE18          0.159    0.007
     3      10  COMBIN14        0.010    0.001
     4      12  COMBIN14        0.021    0.002
     5      11  COMBIN14        0.011    0.001
     6       3  COMBIN14        0.000    0.000
     7       3  COMBIN14        0.000    0.000
     8       3  COMBIN14        0.000    0.000
    30      31  MASS21          0.020    0.001
    71      12  BEAM4           0.070    0.006
    72       5  MASS21          0.010    0.002

   *** NODAL LOAD CALCULATION TIMES
  TYPE  NUMBER    ENAME       TOTAL CP  AVE CP

     1     120  PIPE16          0.090    0.001
     2      22  PIPE18          0.011    0.000
     3      10  COMBIN14        0.000    0.000
     4      12  COMBIN14        0.011    0.001
     5      11  COMBIN14        0.010    0.001
     6       3  COMBIN14        0.000    0.000
     7       3  COMBIN14        0.000    0.000
     8       3  COMBIN14        0.000    0.000
    30      31  MASS21          0.020    0.001
    71      12  BEAM4           0.010    0.001
    72       5  MASS21          0.000    0.000


*** ANSYS BINARY FILE STATISTICS
 BUFFER SIZE USED= 4096
      33.078 MB WRITTEN ON RESULTS FILE: pb2ecx.rst

ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2ecx.db
 FOR POSSIBLE RESUME FROM THIS POINT

FINISH SOLUTION PROCESSING


***** ROUTINE COMPLETED *****  CP =      15991.960


1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC     03:03:49  OCT 10, 1995 CP=  15991.980
FOR SUPPORT CALL                    PHONE                      FAX

 Time-history analysis of coupled system (presurizer spray line)

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


          ***** TIME-HISTORY POSTPROCESSOR (POST26) *****

ALL POST26 SPECIFICATIONS ARE RESET TO INITIAL DEFAULTS

MAXIMUM NUMBER OF VARIABLES= 43

VARIABLE  2  IS AT ELEMENT      143  NODE=         1
   ITEM= F    COMP= X      NAME= FX
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VARIABLE  3  IS AT ELEMENT      144  NODE=         1
   ITEM= F    COMP= Y      NAME= FY

VARIABLE  4  IS AT ELEMENT      145  NODE=         1
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE  5  IS AT ELEMENT      146  NODE=         1
   ITEM= M    COMP= X      NAME= MX

VARIABLE  6  IS AT ELEMENT      147  NODE=         1
   ITEM= M    COMP= Y      NAME= MY

VARIABLE  7  IS AT ELEMENT      148  NODE=         1
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE  8  IS AT ELEMENT      173  NODE=        87
   ITEM= F    COMP= X      NAME= FX

VARIABLE  9  IS AT ELEMENT      174  NODE=        87
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 10  IS AT ELEMENT      175  NODE=        87
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 11  IS AT ELEMENT      176  NODE=        87
   ITEM= M    COMP= X      NAME= MX

VARIABLE 12  IS AT ELEMENT      177  NODE=        87
   ITEM= M    COMP= Y      NAME= MY

VARIABLE 13  IS AT ELEMENT      178  NODE=        87
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE 14  IS AT ELEMENT      179  NODE=       130
   ITEM= F    COMP= X      NAME= FX

VARIABLE 15  IS AT ELEMENT      180  NODE=       130
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 16  IS AT ELEMENT      181  NODE=       130
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 17  IS AT ELEMENT      182  NODE=       130
   ITEM= M    COMP= X      NAME= MX

VARIABLE 18  IS AT ELEMENT      183  NODE=       130
   ITEM= M    COMP= Y      NAME= MY

VARIABLE 19  IS AT ELEMENT      184  NODE=       130
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE 20  IS AT ELEMENT      149  NODE=         9
   ITEM= F    COMP= X      NAME= FX

VARIABLE 21  IS AT ELEMENT      150  NODE=        10
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 22  IS AT ELEMENT      151  NODE=        15
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 23  IS AT ELEMENT      153  NODE=        23
   ITEM= F    COMP= X      NAME= FX

VARIABLE 24  IS AT ELEMENT      154  NODE=        28
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 25  IS AT ELEMENT      155  NODE=        37
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 26  IS AT ELEMENT      156  NODE=        39
   ITEM= F    COMP= X      NAME= FX

VARIABLE 27  IS AT ELEMENT      157  NODE=        44
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 28  IS AT ELEMENT      158  NODE=        45
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 29  IS AT ELEMENT      161  NODE=       124
   ITEM= F    COMP= X      NAME= FX

VARIABLE 30  IS AT ELEMENT      162  NODE=       129
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 31  IS AT ELEMENT      163  NODE=        52
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 32  IS AT ELEMENT      164  NODE=        54
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 33  IS AT ELEMENT      165  NODE=        57
```

```
   ITEM= F     COMP= X      NAME= FX

VARIABLE 34   IS AT ELEMENT      167  NODE=       73
   ITEM= F     COMP= Z      NAME= FZ

VARIABLE 35   IS AT ELEMENT      169  NODE=      131
   ITEM= F     COMP= X      NAME= FX

VARIABLE 36   IS AT ELEMENT      170  NODE=      131
   ITEM= F     COMP= Z      NAME= FZ

VARIABLE 37   IS AT ELEMENT      171  NODE=      133
   ITEM= F     COMP= X      NAME= FX

VARIABLE 38   IS AT ELEMENT      172  NODE=      133
   ITEM= F     COMP= Z      NAME= FZ

VARIABLE 39   IS AT ELEMENT      152  NODE=       14
   ITEM= F     COMP= Y      NAME= FY

VARIABLE 40   IS AT ELEMENT      159  NODE=       53
   ITEM= F     COMP= Y      NAME= FY

VARIABLE 41   IS AT ELEMENT      168  NODE=       61
   ITEM= F     COMP= Y      NAME= FY

VARIABLE 42   IS AT ELEMENT      166  NODE=       78
   ITEM= F     COMP= Y      NAME= FY

VARIABLE 43   IS AT ELEMENT      160  NODE=       79
   ITEM= F     COMP= Y      NAME= FY

STORAGE COMPLETE FOR      99 DATA POINTS

        SUMMARY OF VARIABLES STORED THIS STEP AND EXTREME VALUES
VARI TYPE     IDENTIFIERS     NAME   MINIMUM     AT TIME     MAXIMUM     AT TIME

  2 ESOL   143 F    X    FX      -0.3470E-01   8.180     0.4599E-01   8.040
  3 ESOL   144 F    Y    FY      -0.1730E-01   8.860     0.1351E-01   8.500
  4 ESOL   145 F    Z    FZ      -0.4300E-01   8.220     0.4341E-01   8.500
  5 ESOL   146 M    X    MX      -0.7725E-01   8.860     0.7877E-01   8.500
  6 ESOL   147 M    Y    MY      -0.5760E-01   8.580     0.9392E-01   8.240
  7 ESOL   148 M    Z    MZ      -0.9912E-01   8.860     0.7616E-01   8.440
  8 ESOL   173 F    X    FX      -0.1981E-01   8.100     0.1741E-01   8.140
  9 ESOL   174 F    Y    FY      -0.1127E-01   8.600     0.1347E-01   8.480
 10 ESOL   175 F    Z    FZ      -0.5963E-02   8.100     0.4268E-02   8.480
 11 ESOL   176 M    X    MX      -0.4155E-01   8.140     0.3802E-01   8.360
 12 ESOL   177 M    Y    MY      -0.3087E-01   8.100     0.3161E-01   8.060
 13 ESOL   178 M    Z    MZ      -0.1178E-01   8.060     0.1591E-01   8.180
 14 ESOL   179 F    X    FX      -0.1314E-01   8.100     0.1205E-01   8.060
 15 ESOL   180 F    Y    FY      -0.4771E-02   8.480     0.5547E-02   8.080
 16 ESOL   181 F    Z    FZ      -0.3106E-02   9.420     0.3497E-02   9.240
 17 ESOL   182 M    X    MX      -0.3072E-02   9.420     0.3451E-02   9.240
 18 ESOL   183 M    Y    MY      -0.3971E-02   8.180     0.2788E-02   8.060
 19 ESOL   184 M    Z    MZ      -0.1678E-01   8.060     0.1881E-01   8.100
 20 ESOL   149 F    X    FX      -0.8961E-01   8.040     0.9728E-01   9.020
 21 ESOL   150 F    Z    FZ      -0.1139       8.500     0.1067       8.180
 22 ESOL   151 F    Y    FY      -0.1221       8.540     0.1241       8.200
 23 ESOL   153 F    X    FX      -0.1184       8.300     0.1001       8.140
 24 ESOL   154 F    Z    FZ      -0.7655E-01   8.500     0.8142E-01   8.180
 25 ESOL   155 F    Y    FY      -0.1005       8.180     0.1040       8.500
 26 ESOL   156 F    X    FX      -0.1909       8.440     0.1988       8.060
 27 ESOL   157 F    Y    FY      -0.2137E-01   8.160     0.1421E-01   8.320
 28 ESOL   158 F    Z    FZ      -0.4665E-01   8.140     0.3774E-01   8.600
 29 ESOL   161 F    X    FX      -0.2119E-01   8.100     0.2179E-01   8.140
 30 ESOL   162 F    Z    FZ      -0.5201E-02   9.240     0.5372E-02   8.100
 31 ESOL   163 F    Y    FY      -0.8370E-02   8.460     0.1465E-01   8.060
 32 ESOL   164 F    Z    FZ      -0.1133E-01   8.060     0.1209E-01   8.440
 33 ESOL   165 F    X    FX      -0.2390       8.100     0.1811       8.480
 34 ESOL   167 F    Z    FZ      -0.3672E-01   8.060     0.3322E-01   8.440
 35 ESOL   169 F    X    FX      -0.1043       8.100     0.1216       8.140
 36 ESOL   170 F    Z    FZ      -0.1366E-01   8.100     0.1715E-01   8.140
 37 ESOL   171 F    X    FX      -0.1293       8.100     0.1448       8.140
 38 ESOL   172 F    Z    FZ      -0.5819E-02   8.460     0.5023E-02   8.100
 39 ESOL   152 F    Y    FY      -0.7178E-03   8.860     0.5969E-03   8.440
 40 ESOL   159 F    Y    FY      -0.9872E-03   8.180     0.8078E-03   8.320
 41 ESOL   168 F    Y    FY      -0.5443E-02   8.180     0.4911E-02   8.300
 42 ESOL   166 F    Y    FY      -0.1023E-02   9.480     0.1151E-02   9.560
 43 ESOL   160 F    Y    FY      -0.4025E-03   8.360     0.4451E-03   8.140

        POST26 SUMMARY OF VARIABLE EXTREME VALUES
VARI TYPE     IDENTIFIERS     NAME    MINIMUM     AT TIME     MAXIMUM     AT TIME

  2 ESOL   143 F    X    FX      -0.3470E-01   8.180     0.4599E-01   8.040
  3 ESOL   144 F    Y    FY      -0.1730E-01   8.860     0.1351E-01   8.500
  4 ESOL   145 F    Z    FZ      -0.4300E-01   8.220     0.4341E-01   8.500
  5 ESOL   146 M    X    MX      -0.7725E-01   8.860     0.7877E-01   8.500
  6 ESOL   147 M    Y    MY      -0.5760E-01   8.580     0.9392E-01   8.240
  7 ESOL   148 M    Z    MZ      -0.9912E-01   8.860     0.7616E-01   8.440
  8 ESOL   173 F    X    FX      -0.1981E-01   8.100     0.1741E-01   8.140
  9 ESOL   174 F    Y    FY      -0.1127E-01   8.600     0.1347E-01   8.480
```



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 10 ESOL   175 F    Z    FZ      -0.5963E-02   8.100     0.4268E-02   8.480
 11 ESOL   176 M    X    MX      -0.4155E-01   8.140     0.3802E-01   8.360
 12 ESOL   177 M    Y    MY      -0.3087E-01   8.100     0.3161E-01   8.060
 13 ESOL   178 M    Z    MZ      -0.1178E-01   8.060     0.1591E-01   8.180
 14 ESOL   179 F    X    FX      -0.1314E-01   8.100     0.1205E-01   8.060
 15 ESOL   180 F    Y    FY      -0.4771E-02   8.480     0.5547E-02   8.080
 16 ESOL   181 F    Z    FZ      -0.3106E-02   9.420     0.3497E-02   9.240
 17 ESOL   182 M    X    MX      -0.3072E-02   9.420     0.3451E-02   9.240
 18 ESOL   183 M    Y    MY      -0.3971E-02   8.180     0.2788E-02   8.060
 19 ESOL   184 M    Z    MZ      -0.1678E-01   8.060     0.1881E-01   8.100
 20 ESOL   149 F    X    FX      -0.8961E-01   8.040     0.9728E-01   9.020
 21 ESOL   150 F    Z    FZ      -0.1139       8.500     0.1067       8.180
 22 ESOL   151 F    Y    FY      -0.1221       8.540     0.1241       8.200
 23 ESOL   153 F    X    FX      -0.1184       8.300     0.1001       8.140
 24 ESOL   154 F    Z    FZ      -0.7655E-01   8.500     0.8142E-01   8.180
 25 ESOL   155 F    Y    FY      -0.1005       8.180     0.1040       8.500
 26 ESOL   156 F    X    FX      -0.1909       8.440     0.1988       8.060
 27 ESOL   157 F    Y    FY      -0.2137E-01   8.160     0.1421E-01   8.320
 28 ESOL   158 F    Z    FZ      -0.4665E-01   8.140     0.3774E-01   8.600
 29 ESOL   161 F    X    FX      -0.2119E-01   8.100     0.2179E-01   8.140
 30 ESOL   162 F    Z    FZ      -0.5201E-02   9.240     0.5372E-02   8.100
 31 ESOL   163 F    Y    FY      -0.8370E-02   8.460     0.1465E-01   8.060
 32 ESOL   164 F    Z    FZ      -0.1133E-01   8.060     0.1209E-01   8.440
 33 ESOL   165 F    X    FX      -0.2390       8.100     0.1811       8.480
 34 ESOL   167 F    Z    FZ      -0.3672E-01   8.060     0.3322E-01   8.440
 35 ESOL   169 F    X    FX      -0.1043       8.100     0.1216       8.140
 36 ESOL   170 F    Z    FZ      -0.1366E-01   8.100     0.1715E-01   8.140
 37 ESOL   171 F    X    FX      -0.1293       8.100     0.1448       8.140
 38 ESOL   172 F    Z    FZ      -0.5819E-02   8.460     0.5023E-02   8.100
 39 ESOL   152 F    Y    FY      -0.7178E-03   8.860     0.5969E-03   8.440
 40 ESOL   159 F    Y    FY      -0.9872E-03   8.180     0.8078E-03   8.320
 41 ESOL   168 F    Y    FY      -0.5443E-02   8.180     0.4911E-02   8.300
 42 ESOL   166 F    Y    FY      -0.1023E-02   9.480     0.1151E-02   9.560
 43 ESOL   160 F    Y    FY      -0.4025E-03   8.360     0.4451E-03   8.140

ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2ecx.db
 FOR POSSIBLE RESUME FROM THIS POINT


***** ROUTINE COMPLETED *****  CP =      16004.750



*****  ANSYS SOLUTION ROUTINE  *****


PERFORM AN EXPANSION PASS


EXPAND   100 SOLUTIONS
 IN THE RANGE FROM  0.50000      TO  0.60000
 CALCULATE ELEMENT RESULTS AS WELL AS THE NODAL DOF SOLUTION

PRINT BASI ITEMS WITH A FREQUENCY OF NONE
  FOR ALL APPLICABLE ENTITIES

*****  ANSYS SOLVE    COMMAND  *****
1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC     09:04:22  OCT 10, 1995 CP=   16004.780
FOR SUPPORT CALL                PHONE                    FAX

 Time-history analysis of coupled system (pressurizer spray line)

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**

                    S O L U T I O N   O P T I O N S

  PROBLEM DIMENSIONALITY. . . . . .3-D
  DEGREES OF FREEDOM. . . . . UX   UY   UZ   ROTX ROTY ROTZ
  ANALYSIS TYPE . . . . . .TRANSIENT
     SOLUTION METHOD. . . . . .REDUCED
     EXPANSION PASS . . . . . .ON

                    L O A D   S T E P   O P T I O N S

  LOAD STEP NUMBER. . . . . 1
  NUMBER OF SOLUTIONS TO BE EXPANDED. . . . . 100
     RANGE. . . . . 0.50000      TO  0.60000
  ELEMENT RESULTS CALCULATION . . . . . ON
  PRINT OUTPUT CONTROLS
     ITEM      FREQUENCY    COMPONENT
     BASI        NONE
  DATABASE OUTPUT CONTROLS
     ITEM      FREQUENCY    COMPONENT
     NSOL        LAST


  *** ELEMENT RESULT CALCULATION TIMES
 TYPE  NUMBER    ENAME      TOTAL CP  AVE CP
```

```
     1      120  PIPE16          0.549     0.005
     2       22  PIPE18          0.223     0.010
     3       10  COMBIN14        0.020     0.002
     4       12  COMBIN14        0.020     0.002
     5       11  COMBIN14        0.021     0.002
     6        3  COMBIN14        0.000     0.000
     7        3  COMBIN14        0.010     0.003
     8        3  COMBIN14        0.000     0.000
    30       31  MASS21          0.050     0.002
    71       12  BEAM4           0.060     0.005
    72        5  MASS21          0.011     0.002

  *** NODAL LOAD CALCULATION TIMES
 TYPE  NUMBER    ENAME         TOTAL CP  AVE CP

     1      120  PIPE16          0.068     0.001
     2       22  PIPE18          0.020     0.001
     3       10  COMBIN14        0.020     0.002
     4       12  COMBIN14        0.000     0.000
     5       11  COMBIN14        0.000     0.000
     6        3  COMBIN14        0.000     0.000
     7        3  COMBIN14        0.010     0.003
     8        3  COMBIN14        0.000     0.000
    30       31  MASS21          0.000     0.000
    71       12  BEAM4           0.000     0.000
    72        5  MASS21          0.010     0.002


*** ANSYS BINARY FILE STATISTICS
 BUFFER SIZE USED=  4096
      33.406 MB WRITTEN ON RESULTS FILE: pb2ecx.rst

ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2ecx.db
 FOR POSSIBLE RESUME FROM THIS POINT

FINISH SOLUTION PROCESSING


***** ROUTINE COMPLETED *****  CP =      16220.170


1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC      03:14:10  OCT 10, 1995 CP=   16220.190
FOR SUPPORT CALL                    PHONE                        FAX

 Time-history aralysis of coupled system (presurizer spray line)

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


          ***** TIME-HISTORY POSTPROCESSOR (POST26) *****

ALL POST26 SPECIFICATIONS ARE RESET TO INITIAL DEFAULTS

MAXIMUM NUMBER OF VARIABLES= 43

VARIABLE  2  IS AT ELEMENT      143  NODE=         1
   ITEM= F    COMP= X      NAME= FX

VARIABLE  3  IS AT ELEMENT      144  NODE=         1
   ITEM= F    COMP= Y      NAME= FY

VARIABLE  4  IS AT ELEMENT      145  NODE=         1
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE  5  IS AT ELEMENT      146  NODE=         1
   ITEM= M    COMP= X      NAME= MX

VARIABLE  6  IS AT ELEMENT      147  NODE=         1
   ITEM= M    COMP= Y      NAME= MY

VARIABLE  7  IS AT ELEMENT      148  NODE=         1
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE  8  IS AT ELEMENT      173  NODE=        87
   ITEM= F    COMP= X      NAME= FX

VARIABLE  9  IS AT ELEMENT      174  NODE=        87
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 10  IS AT ELEMENT      175  NODE=        87
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 11  IS AT ELEMENT      176  NODE=        87
   ITEM= M    COMP= X      NAME= MX

VARIABLE 12  IS AT ELEMENT      177  NODE=        87
   ITEM= M    COMP= Y      NAME= MY
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VARIABLE 13  IS AT ELEMENT      178  NODE=        87
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE 14  IS AT ELEMENT      179  NODE=       130
   ITEM= F    COMP= X      NAME= FX

VARIABLE 15  IS AT ELEMENT      180  NODE=       130
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 16  IS AT ELEMENT      181  NODE=       130
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 17  IS AT ELEMENT      182  NODE=       130
   ITEM= M    COMP= X      NAME= MX

VARIABLE 18  IS AT ELEMENT      183  NODE=       130
   ITEM= M    COMP= Y      NAME= MY

VARIABLE 19  IS AT ELEMENT      184  NODE=       130
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE 20  IS AT ELEMENT      149  NODE=         9
   ITEM= F    COMP= X      NAME= FX

VARIABLE 21  IS AT ELEMENT      150  NODE=        10
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 22  IS AT ELEMENT      151  NODE=        15
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 23  IS AT ELEMENT      153  NODE=        23
   ITEM= F    COMP= X      NAME= FX

VARIABLE 24  IS AT ELEMENT      154  NODE=        28
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 25  IS AT ELEMENT      155  NODE=        37
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 26  IS AT ELEMENT      156  NODE=        39
   ITEM= F    COMP= X      NAME= FX

VARIABLE 27  IS AT ELEMENT      157  NODE=        44
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 28  IS AT ELEMENT      158  NODE=        45
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 29  IS AT ELEMENT      161  NODE=       126
   ITEM= F    COMP= X      NAME= FX

VARIABLE 30  IS AT ELEMENT      162  NODE=       129
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 31  IS AT ELEMENT      163  NODE=        52
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 32  IS AT ELEMENT      164  NODE=        54
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 33  IS AT ELEMENT      165  NODE=        57
   ITEM= F    COMP= X      NAME= FX

VARIABLE 34  IS AT ELEMENT      167  NODE=        73
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 35  IS AT ELEMENT      169  NODE=       131
   ITEM= F    COMP= X      NAME= FX

VARIABLE 36  IS AT ELEMENT      170  NODE=       131
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 37  IS AT ELEMENT      171  NODE=       133
   ITEM= F    COMP= X      NAME= FX

VARIABLE 38  IS AT ELEMENT      172  NODE=       133
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 39  IS AT ELEMENT      152  NODE=        14
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 40  IS AT ELEMENT      159  NODE=        53
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 41  IS AT ELEMENT      168  NODE=        61
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 42  IS AT ELEMENT      166  NODE=        78
   ITEM= F    COMP= Y      NAME= FY
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VARIABLE 43  IS AT ELEMENT     160  NODE=        79
   ITEM= F    COMP= Y     NAME= FY

STORAGE COMPLETE FOR     100 DATA POINTS

          SUMMARY OF VARIABLES STORED THIS STEP AND EXTREME VALUES
VARI TYPE     IDENTIFIERS     NAME    MINIMUM     AT TIME     MAXIMUM    AT TIME

  2 ESOL   143 F    X     FX        -0.6207E-01  11.48      0.5801E-01  11.34
  3 ESOL   144 F    Y     FY        -0.1568E-01  11.66      0.1082E-01  10.72
  4 ESOL   145 F    Z     FZ        -0.3652E-01  11.06      0.3116E-01  11.48
  5 ESOL   146 M    X     MX        -0.4418E-01  11.04      0.3973E-01  11.42
  6 ESOL   147 M    Y     MY        -0.1115      11.48      0.1431      11.06
  7 ESOL   148 M    Z     MZ        -0.1166      11.60      0.1200      11.46
  8 ESOL   173 F    X     FX        -0.3527E-01  11.22      0.2836E-01  10.56
  9 ESOL   174 F    Y     FY        -0.3323E-01  11.86      0.2778E-01  11.98
 10 ESOL   175 F    Z     FZ        -0.7154E-02  11.54      0.7700E-02  11.08
 11 ESOL   176 M    X     MX        -0.8692E-01  11.98      0.1067      11.86
 12 ESOL   177 M    Y     MY        -0.5568E-01  11.22      0.4058E-01  10.56
 13 ESOL   178 M    Z     MZ        -0.1832E-01  11.58      0.2219E-01  11.22
 14 ESOL   179 F    X     FX        -0.1775E-01  11.22      0.1967E-01  11.58
 15 ESOL   180 F    Y     FY        -0.6161E-02  11.74      0.7045E-02  11.62
 16 ESOL   181 F    Z     FZ        -0.6107E-02  11.64      0.3512E-02  11.44
 17 ESOL   182 M    X     MX        -0.5960E-02  11.64      0.3448E-02  11.44
 18 ESOL   183 M    Y     MY        -0.5727E-02  11.20      0.5765E-02  11.58
 19 ESOL   184 M    Z     MZ        -0.2928E-01  11.58      0.2390E-01  11.20
 20 ESOL   149 F    X     FX        -0.1538      11.30      0.1440      11.44
 21 ESOL   150 F    Z     FZ        -0.6634E-01  12.00      0.7283E-01  11.06
 22 ESOL   151 F    Y     FY        -0.9101E-01  11.32      0.9701E-01  11.06
 23 ESOL   153 F    X     FX        -0.1111      11.86      0.1429      11.44
 24 ESOL   154 F    Z     FZ        -0.4204E-01  10.70      0.4705E-01  11.70
 25 ESOL   155 F    Y     FY        -0.7853E-01  11.10      0.6826E-01  11.98
 26 ESOL   156 F    X     FX        -0.1804      12.02      0.1181      10.30
 27 ESOL   157 F    Y     FY        -0.2107E-01  11.66      0.2186E-01  11.84
 28 ESOL   158 F    Z     FZ        -0.7593E-01  11.68      0.3967E-01  11.66
 29 ESOL   161 F    X     FX        -0.3422E-01  11.22      0.2935E-01  10.56
 30 ESOL   162 F    Z     FZ        -0.7065E-02  11.82      0.1195E-01  11.64
 31 ESOL   163 F    Y     FY        -0.1701E-01  11.10      0.3019E-01  11.64
 32 ESOL   164 F    Z     FZ        -0.2168E-01  11.82      0.2113E-01  11.64
 33 ESOL   165 F    X     FX        -0.3226      11.22      0.2582      11.08
 34 ESOL   167 F    Z     FZ        -0.2846E-01  11.82      0.3696E-01  11.70
 35 ESOL   169 F    X     FX        -0.1933      11.22      0.2005      11.08
 36 ESOL   170 F    Z     FZ        -0.2789E-01  11.62      0.2593E-01  11.74
 37 ESOL   171 F    X     FX        -0.2310      11.22      0.1838      11.08
 38 ESOL   172 F    Z     FZ        -0.5702E-02  11.02      0.4663E-02  11.46
 39 ESOL   152 F    Y     FY        -0.1034E-02  11.60      0.1067E-02  11.46
 40 ESOL   159 F    Y     FY        -0.1150E-02  12.02      0.1163E-02  11.90
 41 ESOL   168 F    Y     FY        -0.6655E-02  12.02      0.6355E-02  11.90
 42 ESOL   166 F    Y     FY        -0.1232E-02  11.84      0.1716E-02  11.64
 43 ESOL   160 F    Y     FY        -0.1110E-02  11.86      0.8716E-03  11.98

          POST26 SUMMARY OF VARIABLE EXTREME VALUES
VARI TYPE     IDENTIFIERS     NAME    MINIMUM     AT TIME     MAXIMUM    AT TIME

  2 ESOL   143 F    X     FX        -0.6207E-01  11.48      0.5801E-01  11.34
  3 ESOL   144 F    Y     FY        -0.1568E-01  11.66      0.1082E-01  10.72
  4 ESOL   145 F    Z     FZ        -0.3652E-01  11.06      0.3116E-01  11.48
  5 ESOL   146 M    X     MX        -0.4418E-01  11.04      0.3973E-01  11.42
  6 ESOL   147 M    Y     MY        -0.1115      11.48      0.1431      11.06
  7 ESOL   148 M    Z     MZ        -0.1166      11.60      0.1200      11.46
  8 ESOL   173 F    X     FX        -0.3527E-01  11.22      0.2836E-01  10.56
  9 ESOL   174 F    Y     FY        -0.3323E-01  11.86      0.2778E-01  11.98
 10 ESOL   175 F    Z     FZ        -0.7154E-02  11.54      0.7700E-02  11.08
 11 ESOL   176 M    X     MX        -0.8692E-01  11.98      0.1067      11.86
 12 ESOL   177 M    Y     MY        -0.5568E-01  11.22      0.4058E-01  10.56
 13 ESOL   178 M    Z     MZ        -0.1832E-01  11.58      0.2219E-01  11.22
 14 ESOL   179 F    X     FX        -0.1775E-01  11.22      0.1967E-01  11.58
 15 ESOL   180 F    Y     FY        -0.6161E-02  11.74      0.7045E-02  11.62
 16 ESOL   181 F    Z     FZ        -0.6107E-02  11.64      0.3512E-02  11.44
 17 ESOL   182 M    X     MX        -0.5960E-02  11.64      0.3448E-02  11.44
 18 ESOL   183 M    Y     MY        -0.5727E-02  11.20      0.5765E-02  11.58
 19 ESOL   184 M    Z     MZ        -0.2928E-01  11.58      0.2390E-01  11.20
 20 ESOL   149 F    X     FX        -0.1538      11.30      0.1440      11.44
 21 ESOL   150 F    Z     FZ        -0.6634E-01  12.00      0.7283E-01  11.06
 22 ESOL   151 F    Y     FY        -0.9101E-01  11.32      0.9701E-01  11.06
 23 ESOL   153 F    X     FX        -0.1111      11.86      0.1429      11.44
 24 ESOL   154 F    Z     FZ        -0.4204E-01  10.70      0.4705E-01  11.70
 25 ESOL   155 F    Y     FY        -0.7853E-01  11.10      0.6826E-01  11.98
 26 ESOL   156 F    X     FX        -0.1804      12.02      0.1181      10.30
 27 ESOL   157 F    Y     FY        -0.2107E-01  11.66      0.2186E-01  11.84
 28 ESOL   158 F    Z     FZ        -0.7593E-01  11.68      0.3967E-01  11.86
 29 ESOL   161 F    X     FX        -0.3422E-01  11.22      0.2935E-01  10.56
 30 ESOL   162 F    Z     FZ        -0.7065E-02  11.82      0.1195E-01  11.64
 31 ESOL   163 F    Y     FY        -0.1701E-01  11.10      0.3019E-01  11.64
 32 ESOL   164 F    Z     FZ        -0.2168E-01  11.82      0.2113E-01  11.64
 33 ESOL   165 F    X     FX        -0.3226      11.22      0.2582      11.08
 34 ESOL   167 F    Z     FZ        -0.2846E-01  11.82      0.3696E-01  11.70
 35 ESOL   169 F    X     FX        -0.1933      11.22      0.2005      11.08
 36 ESOL   170 F    Z     FZ        -0.2789E-01  11.62      0.2593E-01  11.74
 37 ESOL   171 F    X     FX        -0.2310      11.22      0.1838      11.08
 38 ESOL   172 F    Z     FZ        -0.5702E-02  11.02      0.4663E-02  11.46
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 39 ESOL   152 F    Y     FY        -0.1034E-02  11.60      0.1067E-02  11.46
 40 ESOL   159 F    Y     FY        -0.1150E-02  12.02      0.1163E-02  11.90
 41 ESOL   168 F    Y     FY        -0.6655E-02  12.02      0.6355E-02  11.90
 42 ESOL   166 F    Y     FY        -0.1232E-02  11.84      0.1716E-02  11.64
 43 ESOL   160 F    Y     FY        -0.1110E-02  11.86      0.8716E-03  11.98

ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2ecx.db
 FOR POSSIBLE RESUME FROM THIS POINT


***** ROUTINE COMPLETED *****  CP =      16232.370



*****  ANSYS SOLUTION ROUTINE  *****


PERFORM AN EXPANSION PASS


EXPAND   100 SOLUTIONS
 IN THE RANGE FROM  0.60000     TO  0.70000
 CALCULATE ELEMENT RESULTS AS WELL AS THE NODAL DOF SOLUTION

PRINT BASI ITEMS WITH A FREQUENCY OF NONE
  FOR ALL APPLICABLE ENTITIES

*****  ANSYS SOLVE    COMMAND  *****
1

*****  ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC      03:14:42  OCT 10, 1995 CP=   16232.400
FOR SUPPORT CALL                    PHONE                          FAX

 Time-history analysis of coupled system (pressurizer spray line)

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**

                    S O L U T I O N   O P T I O N S

  PROBLEM DIMENSIONALITY. . . . . .3-D
  DEGREES OF FREEDOM. . . . . UX   UY   UZ   ROTX ROTY ROTZ
  ANALYSIS TYPE . . . . . .TRANSIENT
     SOLUTION METHOD. . . . . .REDUCED
     EXPANSION PASS . . . . . .ON

                    L O A D   S T E P   O P T I O N S

  LOAD STEP NUMBER. . . . . 1
  NUMBER OF SOLUTIONS TO BE EXPANDED. . . . . 100
     RANGE. . . . . 0.60000     TO  0.70000
  ELEMENT RESULTS CALCULATION . . . . . OK
  PRINT OUTPUT CONTROLS
     ITEM      FREQUENCY   COMPONENT
     BASI        NONE
  DATABASE OUTPUT CONTROLS
     ITEM      FREQUENCY   COMPONENT
     NSOL        LAST


  *** ELEMENT RESULT CALCULATION TIMES
 TYPE  NUMBER    ENAME      TOTAL CP  AVE CP

    1      120  PIPE16        0.509    0.004
    2       22  PIPE18        0.200    0.009
    3       10  COMBIN14      0.010    0.001
    4       12  COMBIN14      0.000    0.000
    5       11  COMBIN14      0.029    0.003
    6        3  COMBIN14      0.021    0.007
    7        3  COMBIN14      0.000    0.000
    8        3  COMBIN14      0.000    0.000
   30       31  MASS21        0.071    0.002
   71       12  BEAM4         0.049    0.004
   72        5  MASS21        0.000    0.000

  *** NODAL LOAD CALCULATION TIMES
 TYPE  NUMBER    ENAME      TOTAL CP  AVE CP

    1      120  PIPE16        0.070    0.001
    2       22  PIPE18        0.000    0.000
    3       10  COMBIN14      0.010    0.001
    4       12  COMBIN14      0.011    0.001
    5       11  COMBIN14      0.000    0.000
    6        3  COMBIN14      0.000    0.000
    7        3  COMBIN14      0.000    0.000
    8        3  COMBIN14      0.000    0.000
   30       31  MASS21        0.021    0.001
   71       12  BEAM4         0.020    0.002
   72        5  MASS21        0.000    0.000
```

```
 *** ANSYS BINARY FILE STATISTICS
  BUFFER SIZE USED=  4096
       33.078 MB WRITTEN ON RESULTS FILE: pb2ecx.rst

 ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2ecx.db
  FOR POSSIBLE RESUME FROM THIS POINT

 FINISH SOLUTION PROCESSING


 ***** ROUTINE COMPLETED *****  CP =      16445.120


1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
 40416-2           VERSION=SUN4SPARC      03:24:21  OCT 10, 1995 CP=  16445.160
 FOR SUPPORT CALL                  PHONE                      FAX

  Time-history analysis of coupled system (presurizer spray line)

 **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


          ***** TIME-HISTORY POSTPROCESSOR (POST26) *****

 ALL POST26 SPECIFICATIONS ARE RESET TO INITIAL DEFAULTS

 MAXIMUM NUMBER OF VARIABLES= 43

 VARIABLE  2  IS AT ELEMENT      143  NODE=         1
    ITEM= F    COMP= X      NAME= FX

 VARIABLE  3  IS AT ELEMENT      144  NODE=         1
    ITEM= F    COMP= Y      NAME= FY

 VARIABLE  4  IS AT ELEMENT      145  NODE=         1
    ITEM= F    COMP= Z      NAME= FZ

 VARIABLE  5  IS AT ELEMENT      146  NODE=         1
    ITEM= M    COMP= X      NAME= MX

 VARIABLE  6  IS AT ELEMENT      147  NODE=         1
    ITEM= M    COMP= Y      NAME= MY

 VARIABLE  7  IS AT ELEMENT      148  NODE=         1
    ITEM= M    COMP= Z      NAME= MZ

 VARIABLE  8  IS AT ELEMENT      173  NODE=        87
    ITEM= F    COMP= X      NAME= FX

 VARIABLE  9  IS AT ELEMENT      174  NODE=        87
    ITEM= F    COMP= Y      NAME= FY

 VARIABLE 10  IS AT ELEMENT      175  NODE=        87
    ITEM= F    COMP= Z      NAME= FZ

 VARIABLE 11  IS AT ELEMENT      176  NODE=        87
    ITEM= M    COMP= X      NAME= MX

 VARIABLE 12  IS AT ELEMENT      177  NODE=        87
    ITEM= M    COMP= Y      NAME= MY

 VARIABLE 13  IS AT ELEMENT      178  NODE=        87
    ITEM= M    COMP= Z      NAME= MZ

 VARIABLE 14  IS AT ELEMENT      179  NODE=       130
    ITEM= F    COMP= X      NAME= FX

 VARIABLE 15  IS AT ELEMENT      180  NODE=       130
    ITEM= F    COMP= Y      NAME= FY

 VARIABLE 16  IS AT ELEMENT      181  NODE=       130
    ITEM= F    COMP= Z      NAME= FZ

 VARIABLE 17  IS AT ELEMENT      182  NODE=       130
    ITEM= M    COMP= X      NAME= MX

 VARIABLE 18  IS AT ELEMENT      183  NODE=       130
    ITEM= M    COMP= Y      NAME= MY

 VARIABLE 19  IS AT ELEMENT      184  NODE=       130
    ITEM= M    COMP= Z      NAME= MZ

 VARIABLE 20  IS AT ELEMENT      149  NODE=         9
    ITEM= F    COMP= X      NAME= FX

 VARIABLE 21  IS AT ELEMENT      150  NODE=        10
    ITEM= F    COMP= Z      NAME= FZ

 VARIABLE 22  IS AT ELEMENT      151  NODE=        15
```



```
    ITEM= F    COMP= Y      NAME= FY

 VARIABLE 23  IS AT ELEMENT      153  NODE=        23
    ITEM= F    COMP= X      NAME= FX

 VARIABLE 24  IS AT ELEMENT      154  NODE=        28
    ITEM= F    COMP= Z      NAME= FZ

 VARIABLE 25  IS AT ELEMENT      155  NODE=        37
    ITEM= F    COMP= Y      NAME= FY

 VARIABLE 26  IS AT ELEMENT      156  NODE=        39
    ITEM= F    COMP= X      NAME= FX

 VARIABLE 27  IS AT ELEMENT      157  NODE=        44
    ITEM= F    COMP= Y      NAME= FY

 VARIABLE 28  IS AT ELEMENT      158  NODE=        45
    ITEM= F    COMP= Z      NAME= FZ

 VARIABLE 29  IS AT ELEMENT      161  NODE=       124
    ITEM= F    COMP= X      NAME= FX

 VARIABLE 30  IS AT ELEMENT      162  NODE=       129
    ITEM= F    COMP= Z      NAME= FZ

 VARIABLE 31  IS AT ELEMENT      163  NODE=        52
    ITEM= F    COMP= Y      NAME= FY

 VARIABLE 32  IS AT ELEMENT      164  NODE=        54
    ITEM= F    COMP= Z      NAME= FZ

 VARIABLE 33  IS AT ELEMENT      165  NODE=        57
    ITEM= F    COMP= X      NAME= FX

 VARIABLE 34  IS AT ELEMENT      167  NODE=        73
    ITEM= F    COMP= Z      NAME= FZ

 VARIABLE 35  IS AT ELEMENT      169  NODE=       131
    ITEM= F    COMP= X      NAME= FX

 VARIABLE 36  IS AT ELEMENT      170  NODE=       131
    ITEM= F    COMP= Z      NAME= FZ

 VARIABLE 37  IS AT ELEMENT      171  NODE=       133
    ITEM= F    COMP= X      NAME= FX

 VARIABLE 38  IS AT ELEMENT      172  NODE=       133
    ITEM= F    COMP= Z      NAME= FZ

 VARIABLE 39  IS AT ELEMENT      152  NODE=        14
    ITEM= F    COMP= Y      NAME= FY

 VARIABLE 40  IS AT ELEMENT      159  NODE=        53
    ITEM= F    COMP= Y      NAME= FY

 VARIABLE 41  IS AT ELEMENT      168  NODE=        61
    ITEM= F    COMP= Y      NAME= FY

 VARIABLE 42  IS AT ELEMENT      166  NODE=        78
    ITEM= F    COMP= Y      NAME= FY

 VARIABLE 43  IS AT ELEMENT      160  NODE=        79
    ITEM= F    COMP= Y      NAME= FY

 STORAGE COMPLETE FOR      99 DATA POINTS

        SUMMARY OF VARIABLES STORED THIS STEP AND EXTREME VALUES
 VARI TYPE    IDENTIFIERS      NAME   MINIMUM     AT TIME     MAXIMUM    AT TIME

   2 ESOL   143 F    X      FX       -0.7660E-01  12.54     0.7474E-01  12.70
   3 ESOL   144 F    Y      FY       -0.1472E-01  13.80     0.9595E-02  12.84
   4 ESOL   145 F    Z      FZ       -0.2586E-01  12.42     0.2752E-01  12.04
   5 ESOL   146 M    X      MX       -0.3577E-01  12.40     0.3939E-01  14.00
   6 ESOL   147 M    Y      MY       -0.9717E-01  12.84     0.1463      13.94
   7 ESOL   148 M    Z      MZ       -0.1218      13.78     0.1140      12.54
   8 ESOL   173 F    X      FX       -0.2156E-01  13.84     0.1810E-01  14.00
   9 ESOL   174 F    Y      FY       -0.1485E-01  12.10     0.2049E-01  12.06
  10 ESOL   175 F    Z      FZ       -0.3630E-02  12.50     0.6618E-02  13.90
  11 ESOL   176 M    X      MX       -0.6576E-01  12.06     0.4807E-01  12.10
  12 ESOL   177 M    Y      MY       -0.3223E-01  13.86     0.2503E-01  14.00
  13 ESOL   178 M    Z      MZ       -0.1366E-01  12.16     0.1616E-01  12.30
  14 ESOL   179 F    X      FX       -0.1215E-01  13.86     0.9432E-02  12.46
  15 ESOL   180 F    Y      FY       -0.7440E-02  12.80     0.7751E-02  12.98
  16 ESOL   181 F    Z      FZ       -0.4969E-02  13.00     0.4678E-02  12.80
  17 ESOL   182 M    X      MX       -0.4892E-02  13.00     0.4818E-02  12.80
  18 ESOL   183 M    Y      MY       -0.3048E-02  12.30     0.2896E-02  12.16
  19 ESOL   184 M    Z      MZ       -0.1323E-01  12.46     0.1640E-01  13.86
  20 ESOL   149 F    X      FX       -0.1624      13.78     0.1691      17.54
  21 ESOL   150 F    Z      FZ       -0.5842E-01  12.06     0.5246E-01  12.46
  22 ESOL   151 F    Y      FY       -0.7221E-01  12.70     0.4900E-01  13.86
```

23	ESOL	153	F	X	FX	-0.1576	13.80	0.1276	12.78
24	ESOL	154	F	Z	FZ	-0.3171E-01	12.06	0.3483E-01	12.40
25	ESOL	155	F	Y	FY	-0.4448E-01	12.48	0.5627E-01	12.68
26	ESOL	156	F	X	FX	-0.2310	13.86	0.1582	13.56
27	ESOL	157	F	Y	FY	-0.1742E-01	12.32	0.2179E-01	13.96
28	ESOL	158	F	Z	FZ	-0.5164E-01	13.90	0.4441E-01	12.14
29	ESOL	161	F	X	FX	-0.2149E-01	13.86	0.1566E-01	12.46
30	ESOL	162	F	Z	FZ	-0.7090E-02	12.80	0.7949E-02	13.00
31	ESOL	163	F	Y	FY	-0.2276E-01	13.94	0.2288E-01	12.72
32	ESOL	164	F	Z	FZ	-0.1209E-01	12.56	0.1373E-01	13.00
33	ESOL	165	F	X	FX	-0.1390	12.30	0.1824	13.90
34	ESOL	167	F	Z	FZ	-0.3079E-01	13.56	0.4227E-01	13.86
35	ESOL	169	F	X	FX	-0.1313	13.86	0.9269E-01	12.46
36	ESOL	170	F	Z	FZ	-0.1884E-01	12.98	0.1705E-01	12.80
37	ESOL	171	F	X	FX	-0.1339	13.86	0.9854E-01	14.00
38	ESOL	172	F	Z	FZ	-0.7296E-02	13.90	0.3915E-02	12.92
39	ESOL	152	F	Y	FY	-0.1003E-02	13.78	0.1097E-02	12.54
40	ESOL	159	F	Y	FY	-0.1030E-02	13.38	0.1029E-02	12.14
41	ESOL	168	F	Y	FY	-0.5844E-02	13.38	0.5510E-02	13.24
42	ESOL	166	F	Y	FY	-0.1505E-02	12.54	0.1826E-02	12.74
43	ESOL	160	F	Y	FY	-0.4710E-03	12.92	0.6725E-03	12.06

POST26 SUMMARY OF VARIABLE EXTREME VALUES

VARI	TYPE	IDENTIFIERS		NAME	MINIMUM	AT TIME	MAXIMUM	AT TIME
2	ESOL	143	F	X FX	-0.7660E-01	12.54	0.7474E-01	12.70
3	ESOL	144	F	Y FY	-0.1472E-01	13.80	0.9595E-02	12.84
4	ESOL	145	F	Z FZ	-0.2586E-01	12.42	0.2752E-01	12.04
5	ESOL	146	M	X MX	-0.3577E-01	12.40	0.3939E-01	14.00
6	ESOL	147	M	Y MY	-0.9717E-01	12.84	0.1463	13.94
7	ESOL	148	M	Z MZ	-0.1218	13.78	0.1140	12.54
8	ESOL	173	F	X FX	-0.2156E-01	13.84	0.1810E-01	14.00
9	ESOL	174	F	Y FY	-0.1485E-01	12.10	0.2049E-01	12.06
10	ESOL	175	F	Z FZ	-0.3630E-02	12.50	0.6618E-02	13.90
11	ESOL	176	M	X MX	-0.6576E-01	12.06	0.4807E-01	12.10
12	ESOL	177	M	Y MY	-0.3223E-01	13.86	0.2503E-01	14.00
13	ESOL	178	M	Z MZ	-0.1366E-01	12.16	0.1616E-01	12.30
14	ESOL	179	F	X FX	-0.1215E-01	13.86	0.9432E-02	12.46
15	ESOL	180	F	Y FY	-0.7440E-02	12.80	0.7751E-02	12.98
16	ESOL	181	F	Z FZ	-0.4969E-02	13.00	0.4878E-02	12.80
17	ESOL	182	M	X MX	-0.4892E-02	13.00	0.4818E-02	12.80
18	ESOL	183	M	Y MY	-0.3048E-02	12.30	0.2896E-02	12.16
19	ESOL	184	M	Z MZ	-0.1323E-01	12.46	0.1640E-01	13.86
20	ESOL	149	F	X FX	-0.1624	13.78	0.1691	12.54
21	ESOL	150	F	Z FZ	-0.5842E-01	12.06	0.5246E-01	12.46
22	ESOL	151	F	Y FY	-0.7221E-01	12.70	0.4900E-01	13.86
23	ESOL	153	F	X FX	-0.1576	13.80	0.1276	12.78
24	ESOL	154	F	Z FZ	-0.3171E-01	12.06	0.3483E-01	12.40
25	ESOL	155	F	Y FY	-0.4448E-01	12.48	0.5627E-01	12.68
26	ESOL	156	F	X FX	-0.2310	13.86	0.1582	13.56
27	ESOL	157	F	Y FY	-0.1742E-01	12.32	0.2179E-01	13.96
28	ESOL	158	F	Z FZ	-0.5164E-01	13.90	0.4441E-01	12.14
29	ESOL	161	F	X FX	-0.2149E-01	13.86	0.1566E-01	12.46
30	ESOL	162	F	Z FZ	-0.7090E-02	12.80	0.7949E-02	13.00
31	ESOL	163	F	Y FY	-0.2276E-01	13.94	0.2288E-01	12.72
32	ESOL	164	F	Z FZ	-0.1209E-01	12.56	0.1373E-01	13.00
33	ESOL	165	F	X FX	-0.1390	12.30	0.1824	13.90
34	ESOL	167	F	Z FZ	-0.3079E-01	13.56	0.4227E-01	13.86
35	ESOL	169	F	X FX	-0.1313	13.86	0.9269E-01	12.46
36	ESOL	170	F	Z FZ	-0.1884E-01	12.98	0.1705E-01	12.80
37	ESOL	171	F	X FX	-0.1339	13.86	0.9854E-01	14.00
38	ESOL	172	F	Z FZ	-0.7296E-02	13.90	0.3915E-02	12.92
39	ESOL	152	F	Y FY	-0.1003E-02	13.78	0.1097E-02	12.54
40	ESOL	159	F	Y FY	-0.1030E-02	13.38	0.1029E-02	12.14
41	ESOL	168	F	Y FY	-0.5844E-02	13.38	0.5510E-02	13.24
42	ESOL	166	F	Y FY	-0.1505E-02	12.54	0.1826E-02	12.74
43	ESOL	160	F	Y FY	-0.4710E-03	12.92	0.6725E-03	12.06

```
ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2ecx.db
 FOR POSSIBLE RESUME FROM THIS POINT


***** ROUTINE COMPLETED *****  CP =      16457.660



*****  ANSYS SOLUTION ROUTINE  *****

PERFORM AN EXPANSION PASS


EXPAND   100 SOLUTIONS
  IN THE RANGE FROM  0.70000      TO  0.80000
  CALCULATE ELEMENT RESULTS AS WELL AS THE NODAL DOF SOLUTION

PRINT BASI ITEMS WITH A FREQUENCY OF NONE
  FOR ALL APPLICABLE ENTITIES

*****  ANSYS SOLVE    COMMAND  *****
1
```



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***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC      03:24:52  OCT 10, 1995 CP=   16457.690
FOR SUPPORT CALL                  PHONE                        FAX

 Time-history analysis of coupled system (presurizer spray line)

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**

                    S O L U T I O N   O P T I O N S

  PROBLEM DIMENSIONALITY. . . . . .3-D
  DEGREES OF FREEDOM. . . . . UX   UY   UZ   ROTX ROTY ROTZ
  ANALYSIS TYPE . . . . . .TRANSIENT
     SOLUTION METHOD. . . . . .REDUCED
     EXPANSION PASS . . . . . .ON

                    L O A D   S T E P   O P T I O N S

  LOAD STEP NUMBER. . . . . 1
  NUMBER OF SOLUTIONS TO BE EXPANDED. . . . . 100
     RANGE. . . . . 0.70000      TO  0.80000
  ELEMENT RESULTS CALCULATION . . . . . ON
  PRINT OUTPUT CONTROLS
     ITEM      FREQUENCY    COMPONENT
     BASI      NONE
  DATABASE OUTPUT CONTROLS
     ITEM      FREQUENCY    COMPONENT
     NSOL      LAST


  *** ELEMENT RESULT CALCULATION TIMES
 TYPE  NUMBER    ENAME       TOTAL CP  AVE CP

    1      120  PIPE16         0.570     0.005
    2       22  PIPE18         0.213     0.010
    3       10  COMBIN14       0.010     0.001
    4       12  COMBIN14       0.029     0.002
    5       11  COMBIN14       0.020     0.002
    6        3  COMBIN14       0.000     0.000
    7        3  COMBIN14       0.010     0.003
    8        3  COMBIN14       0.000     0.000
   30       31  MASS21         0.011     0.000
   71       12  BEAM4          0.051     0.004
   72        5  MASS21         0.011     0.002

  *** NODAL LOAD CALCULATION TIMES
 TYPE  NUMBER    ENAME       TOTAL CP  AVE CP

    1      120  PIPE16         0.040     0.000
    2       22  PIPE18         0.020     0.001
    3       10  COMBIN14       0.000     0.000
    4       12  COMBIN14       0.000     0.000
    5       11  COMBIN14       0.000     0.000
    6        3  COMBIN14       0.000     0.000
    7        3  COMBIN14       0.000     0.000
    8        3  COMBIN14       0.000     0.000
   30       31  MASS21         0.029     0.001
   71       12  BEAM4          0.010     0.001
   72        5  MASS21         0.000     0.000


*** ANSYS BINARY FILE STATISTICS
 BUFFER SIZE USED=  4096
      33.078 MB WRITTEN ON RESULTS FILE: pb2ecx.rst

ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2ecx.db
 FOR POSSIBLE RESUME FROM THIS POINT

FINISH SOLUTION PROCESSING


***** ROUTINE COMPLETED *****  CP =      16671.070


1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC      03:34:34  OCT 10, 1995 CP=   16671.100
FOR SUPPORT CALL                  PHONE                        FAX

 Time-history analysis of coupled system (presurizer spray line)

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


         ***** TIME-HISTORY POSTPROCESSOR (POST26) *****

ALL POST26 SPECIFICATIONS ARE RESET TO INITIAL DEFAULTS

MAXIMUM NUMBER OF VARIABLES= 43
```

VARIABLE 2 IS AT ELEMENT 143 NODE= 1
ITEM= F COMP= X NAME= FX

VARIABLE 3 IS AT ELEMENT 144 NODE= 1
ITEM= F COMP= Y NAME= FY

VARIABLE 4 IS AT ELEMENT 145 NODE= 1
ITEM= F COMP= Z NAME= FZ

VARIABLE 5 IS AT ELEMENT 146 NODE= 1
ITEM= M COMP= X NAME= MX

VARIABLE 6 IS AT ELEMENT 147 NODE= 1
ITEM= M COMP= Y NAME= MY

VARIABLE 7 IS AT ELEMENT 148 NODE= 1
ITEM= M COMP= Z NAME= MZ

VARIABLE 8 IS AT ELEMENT 173 NODE= 87
ITEM= F COMP= X NAME= FX

VARIABLE 9 IS AT ELEMENT 174 NODE= 87
ITEM= F COMP= Y NAME= FY

VARIABLE 10 IS AT ELEMENT 175 NODE= 87
ITEM= F COMP= Z NAME= FZ

VARIABLE 11 IS AT ELEMENT 176 NODE= 87
ITEM= M COMP= X NAME= MX

VARIABLE 12 IS AT ELEMENT 177 NODE= 87
ITEM= M COMP= Y NAME= MY

VARIABLE 13 IS AT ELEMENT 178 NODE= 87
ITEM= M COMP= Z NAME= MZ

VARIABLE 14 IS AT ELEMENT 179 NODE= 130
ITEM= F COMP= X NAME= FX

VARIABLE 15 IS AT ELEMENT 180 NODE= 130
ITEM= F COMP= Y NAME= FY

VARIABLE 16 IS AT ELEMENT 181 NODE= 130
ITEM= F COMP= Z NAME= FZ

VARIABLE 17 IS AT ELEMENT 182 NODE= 130
ITEM= M COMP= X NAME= MX

VARIABLE 18 IS AT ELEMENT 183 NODE= 130
ITEM= M COMP= Y NAME= MY

VARIABLE 19 IS AT ELEMENT 184 NODE= 130
ITEM= M COMP= Z NAME= MZ

VARIABLE 20 IS AT ELEMENT 149 NODE= 9
ITEM= F COMP= X NAME= FX

VARIABLE 21 IS AT ELEMENT 150 NODE= 10
ITEM= F COMP= Z NAME= FZ

VARIABLE 22 IS AT ELEMENT 151 NODE= 15
ITEM= F COMP= Y NAME= FY

VARIABLE 23 IS AT ELEMENT 153 NODE= 23
ITEM= F COMP= X NAME= FX

VARIABLE 24 IS AT ELEMENT 154 NODE= 28
ITEM= F COMP= Z NAME= FZ

VARIABLE 25 IS AT ELEMENT 155 NODE= 37
ITEM= F COMP= Y NAME= FY

VARIABLE 26 IS AT ELEMENT 156 NODE= 39
ITEM= F COMP= X NAME= FX

VARIABLE 27 IS AT ELEMENT 157 NODE= 44
ITEM= F COMP= Y NAME= FY

VARIABLE 28 IS AT ELEMENT 158 NODE= 45
ITEM= F COMP= Z NAME= FZ

VARIABLE 29 IS AT ELEMENT 161 NODE= 124
ITEM= F COMP= X NAME= FX

VARIABLE 30 IS AT ELEMENT 162 NODE= 129
ITEM= F COMP= Z NAME= FZ

VARIABLE 31 IS AT ELEMENT 163 NODE= 52
ITEM= F COMP= Y NAME= FY

VARIABLE 32 IS AT ELEMENT 164 NODE= 54
ITEM= F COMP= Z NAME= FZ

VARIABLE 33 IS AT ELEMENT 165 NODE= 57
ITEM= F COMP= X NAME= FX

VARIABLE 34 IS AT ELEMENT 167 NODE= 73
ITEM= F COMP= Z NAME= FZ

VARIABLE 35 IS AT ELEMENT 169 NODE= 131
ITEM= F COMP= X NAME= FX

VARIABLE 36 IS AT ELEMENT 170 NODE= 131
ITEM= F COMP= Z NAME= FZ

VARIABLE 37 IS AT ELEMENT 171 NODE= 133
ITEM= F COMP= X NAME= FX

VARIABLE 38 IS AT ELEMENT 172 NODE= 133
ITEM= F COMP= Z NAME= FZ

VARIABLE 39 IS AT ELEMENT 152 NODE= 14
ITEM= F COMP= Y NAME= FY

VARIABLE 40 IS AT ELEMENT 159 NODE= 53
ITEM= F COMP= Y NAME= FY

VARIABLE 41 IS AT ELEMENT 168 NODE= 61
ITEM= F COMP= Y NAME= FY

VARIABLE 42 IS AT ELEMENT 166 NODE= 78
ITEM= F COMP= Y NAME= FY

VARIABLE 43 IS AT ELEMENT 160 NODE= 79
ITEM= F COMP= Y NAME= FY

STORAGE COMPLETE FOR 99 DATA POINTS

SUMMARY OF VARIABLES STORED THIS STEP AND EXTREME VALUES

VARI	TYPE	IDENTIFIERS		NAME	MINIMUM	AT TIME	MAXIMUM	AT TIME
2	ESOL	143	F X	FX	-0.4867E-01	15.10	0.5714E-01	15.48
3	ESOL	144	F Y	FY	-0.2228E-01	15.18	0.2225E-01	15.48
4	ESOL	145	F Z	FZ	-0.5907E-01	15.14	0.5918E-01	15.48
5	ESOL	146	M X	MX	-0.1034	15.12	0.1021	15.44
6	ESOL	147	M Y	MY	-0.1929	14.20	0.1910	14.52
7	ESOL	148	M Z	MZ	-0.8510E-01	15.20	0.8687E-01	15.38
8	ESOL	173	F X	FX	-0.1486E-01	15.10	0.2035E-01	15.48
9	ESOL	174	F Y	FY	-0.1033E-01	15.78	0.1088E-01	15.88
10	ESOL	175	F Z	FZ	-0.7656E-02	14.28	0.6510E-02	14.56
11	ESOL	176	M X	MX	-0.3682E-01	15.88	0.4013E-01	14.62
12	ESOL	177	M Y	MY	-0.2259E-01	15.10	0.3289E-01	15.48
13	ESOL	178	M Z	MZ	-0.1397E-01	15.48	0.9381E-02	15.10
14	ESOL	179	F X	FX	-0.9767E-02	15.52	0.1252E-01	15.48
15	ESOL	180	F Y	FY	-0.4485E-02	15.92	0.5856E-02	14.30
16	ESOL	181	F Z	FZ	-0.3707E-02	16.00	0.3488E-02	15.94
17	ESOL	182	M X	MX	-0.3642E-02	16.00	0.3431E-02	15.94
18	ESOL	183	M Y	MY	-0.2307E-02	15.52	0.3051E-02	15.48
19	ESOL	184	M Z	MZ	-0.1721E-01	15.48	0.1387E-01	15.52
20	ESOL	149	F X	FX	-0.1372	14.92	0.8537E-01	14.04
21	ESOL	150	F Z	FZ	-0.1548	15.46	0.1550	15.14
22	ESOL	151	F Y	FY	-0.1845	15.46	0.1800	15.14
23	ESOL	153	F X	FX	-0.1007	14.60	0.1550	14.22
24	ESOL	154	F Z	FZ	-0.1063	15.46	0.1084	15.14
25	ESOL	155	F Y	FY	-0.1503	15.14	0.1492	15.50
26	ESOL	156	F X	FX	-0.2530	14.60	0.2910	14.32
27	ESOL	157	F Y	FY	-0.2079E-01	14.24	0.2630E-01	14.66
28	ESOL	158	F Z	FZ	-0.7843E-01	14.54	0.7192E-01	15.46
29	ESOL	161	F X	FX	-0.1620E-01	15.52	0.2153E-01	15.48
30	ESOL	162	F Z	FZ	-0.5371E-02	15.94	0.6184E-02	16.00
31	ESOL	163	F Y	FY	-0.1970E-01	14.64	0.1800E-01	14.28
32	ESOL	164	F Z	FZ	-0.1303E-01	14.34	0.1501E-01	14.52
33	ESOL	165	F X	FX	-0.2220	14.28	0.1984	14.64
34	ESOL	167	F Z	FZ	-0.5258E-01	14.32	0.4906E-01	14.60
35	ESOL	169	F X	FX	-0.9190E-01	15.42	0.1171	15.48
36	ESOL	170	F Z	FZ	-0.1309E-01	16.00	0.9376E-02	15.96
37	ESOL	171	F X	FX	-0.9748E-01	15.10	0.1332	15.48
38	ESOL	172	F Z	FZ	-0.8149E-02	14.56	0.9205E-02	14.36
39	ESOL	152	F Y	FY	-0.5766E-03	15.20	0.6159E-03	15.36
40	ESOL	159	F Y	FY	-0.6891E-03	14.20	0.5903E-03	14.66
41	ESOL	168	F Y	FY	-0.3584E-02	14.20	0.2569E-02	14.66
42	ESOL	166	F Y	FY	-0.9785E-03	14.66	0.1266E-02	15.86
43	ESOL	160	F Y	FY	-0.3987E-03	14.70	0.4057E-03	15.88

POST26 SUMMARY OF VARIABLE EXTREME VALUES

VARI	TYPE	IDENTIFIERS		NAME	MINIMUM	AT TIME	MAXIMUM	AT TIME
2	ESOL	143	F X	FX	-0.4867E-01	15.10	0.5714E-01	15.48
3	ESOL	144	F Y	FY	-0.2228E-01	15.18	0.2225E-01	15.48
4	ESOL	145	F Z	FZ	-0.5907E-01	15.14	0.5918E-01	15.48
5	ESOL	146	M X	MX	-0.1034	15.12	0.1021	15.44

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  6 ESOL   147 M    Y    MY       -0.1929       14.20       0.1910       14.52
  7 ESOL   148 M    Z    MZ       -0.8510E-01   15.20       0.8687E-01   15.38
  8 ESOL   173 F    X    FX       -0.1486E-01   15.10       0.2035E-01   15.48
  9 ESOL   174 F    Y    FY       -0.1033E-01   15.78       0.1088E-01   15.88
 10 ESOL   175 F    Z    FZ       -0.7656E-02   14.28       0.6510E-02   14.56
 11 ESOL   176 M    X    MX       -0.3682E-01   15.88       0.4013E-01   14.62
 12 ESOL   177 M    Y    MY       -0.2259E-01   15.10       0.3289E-01   15.48
 13 ESOL   178 M    Z    MZ       -0.1397E-01   15.48       0.9381E-02   15.10
 14 ESOL   179 F    X    FX       -0.9767E-02   15.52       0.1252E-01   15.48
 15 ESOL   180 F    Y    FY       -0.4485E-02   15.92       0.5856E-02   14.30
 16 ESOL   181 F    Z    FZ       -0.3707E-02   16.00       0.3482E-02   15.94
 17 ESOL   182 M    X    MX       -0.3642E-02   16.00       0.3431E-02   15.94
 18 ESOL   183 M    Y    MY       -0.2307E-02   15.52       0.3051E-02   15.48
 19 ESOL   184 M    Z    MZ       -0.1721E-01   15.48       0.1387E-01   15.52
 20 ESOL   149 F    X    FX       -0.1372       14.92       0.8537E-01   14.04
 21 ESOL   150 F    Z    FZ       -0.1548       15.46       0.1550       15.14
 22 ESOL   151 F    Y    FY       -0.1845       15.46       0.1800       15.14
 23 ESOL   153 F    X    FX       -0.1007       14.60       0.1550       14.22
 24 ESOL   154 F    Z    FZ       -0.1063       15.46       0.1084       15.14
 25 ESOL   155 F    Y    FY       -0.1503       15.14       0.1492       15.50
 26 ESOL   156 F    X    FX       -0.2530       14.60       0.2910       14.32
 27 ESOL   157 F    Y    FY       -0.2079E-01   14.24       0.2630E-01   14.66
 28 ESOL   158 F    Z    FZ       -0.7843E-01   14.54       0.7192E-01   15.46
 29 ESOL   161 F    X    FX       -0.1620E-01   15.52       0.2153E-01   15.48
 30 ESOL   162 F    Z    FZ       -0.5371E-02   15.94       0.6184E-02   16.00
 31 ESOL   163 F    Y    FY       -0.1970E-01   14.64       0.1800E-01   14.28
 32 ESOL   164 F    Z    FZ       -0.1303E-01   14.34       0.1501E-01   14.52
 33 ESOL   165 F    X    FX       -0.2220       14.28       0.1984       14.64
 34 ESOL   167 F    Z    FZ       -0.5258E-01   14.32       0.4906E-01   14.60
 35 ESOL   169 F    X    FX       -0.9190E-01   15.42       0.1171       15.48
 36 ESOL   170 F    Z    FZ       -0.1309E-01   16.00       0.3376E-02   15.96
 37 ESOL   171 F    X    FX       -0.9748E-01   15.10       0.1332       15.48
 38 ESOL   172 F    Z    FZ       -0.8149E-02   14.5?       0.9205E-02   14.36
 39 ESOL   152 F    Y    FY       -0.5486E-03   15.20       0.6159E-03   15.36
 40 ESOL   159 F    Y    FY       -0.6891E-03   14.20       0.5903E-03   14.66
 41 ESOL   168 F    Y    FY       -0.3584E-02   14.20       0.2569E-02   14.66
 42 ESOL   166 F    Y    FY       -0.9785E-03   14.66       0.1266E-02   15.96
 43 ESOL   160 F    Y    FY       -0.3987E-03   14.70       0.4057E-03   15.88

ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2ecx.db
 FOR POSSIBLE RESUME FROM THIS POINT


***** ROUTINE COMPLETED *****  CP =      16683.320



*****  ANSYS SOLUTION ROUTINE  *****

PERFORM AN EXPANSION PASS


EXPAND   100 SOLUTIONS
 IN THE RANGE FROM  0.80000     TO  0.90000
 CALCULATE ELEMENT RESULTS AS WELL AS THE NODAL DOF SOLUTION

PRINT BASI ITEMS WITH A FREQUENCY OF NONE
  FOR ALL APPLICABLE ENTITIES

*****  ANSYS SOLVE    COMMAND  *****
1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC     03:35:05  OCT 10, 1995 CP=  16683.360
FOR SUPPORT CALL                    PHONE                      FAX

 Time-history analysis of coupled system (presurizer spray line)

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**

                    S O L U T I O N   O P T I O N S

  PROBLEM DIMENSIONALITY. . . . . .3-D
  DEGREES OF FREEDOM. . . . . UX   UY   UZ   ROTX ROTY ROTZ
  ANALYSIS TYPE . . . . . .TRANSIENT
     SOLUTION METHOD. . . . . .REDUCED
     EXPANSION PASS . . . . . .ON

                    L O A D   S T E P   O P T I O N S

  LOAD STEP NUMBER. . . . . 1
  NUMBER OF SOLUTIONS TO BE EXPANDED. . . . . 100
     RANGE . . . . . 0.80000     TO  0.90000
  ELEMENT RESULTS CALCULATION . . . . . ON
  PRINT OUTPUT CONTROLS
     ITEM      FREQUENCY   COMPONENT
     BASI      NONE
  DATABASE OUTPUT CONTROLS
     ITEM      FREQUENCY   COMPONENT
     NSOL      LAST
```



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  *** ELEMENT RESULT CALCULATION TIMES
 TYPE  NUMBER    ENAME       TOTAL CP  AVE CP

    1     120   PIPE16          0.580    0.005
    2      22   PIPE18          0.162    0.007
    3      10   COMBIN14        0.020    0.002
    4      12   COMBIN14        0.020    0.002
    5      11   COMBIN14        0.000    0.000
    6       3   COMBIN14        0.000    0.000
    7       3   COMBIN14        0.000    0.000
    8       3   COMBIN14        0.000    0.000
   30      31   MASS21          0.050    0.002
   71      12   BEAM4           0.050    0.004
   72       5   MASS21          0.010    0.002

  *** NODAL LOAD CALCULATION TIMES
 TYPE  NUMBER    ENAME       TOTAL CP  AVE CP

    1     120   PIPE16          0.070    0.001
    2      22   PIPE18          0.020    0.001
    3      10   COMBIN14        0.000    0.000
    4      12   COMBIN14        0.020    0.002
    5      11   COMBIN14        0.000    0.000
    6       3   COMBIN14        0.000    0.000
    7       3   COMBIN14        0.000    0.000
    8       3   COMBIN14        0.010    0.003
   30      31   MASS21          0.000    0.000
   71      12   BEAM4           0.021    0.002
   72       5   MASS21          0.000    0.000


*** ANSYS BINARY FILE STATISTICS
 BUFFER SIZE USED=  4096
      33.078 MB WRITTEN ON RESULTS FILE: pb2ecx.rst

ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2ecx.db
 FOR POSSIBLE RESUME FROM THIS POINT

FINISH SOLUTION PROCESSING


***** ROUTINE COMPLETED *****  CP =      16896.240


1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC     03:42:41  OCT 10, 1995 CP=  16896.260
FOR SUPPORT CALL                    PHONE                      FAX

 Time-history analysis of coupled system (presurizer spray line)

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


        ***** TIME-HISTORY POSTPROCESSOR (POST26) *****

ALL POST26 SPECIFICATIONS ARE RESET TO INITIAL DEFAULTS

MAXIMUM NUMBER OF VARIABLES= 43

VARIABLE  2  IS AT ELEMENT      143  NODE=         1
   ITEM= F    COMP= X      NAME= FX

VARIABLE  3  IS AT ELEMENT      144  NODE=         1
   ITEM= F    COMP= Y      NAME= FY

VARIABLE  4  IS AT ELEMENT      145  NODE=         1
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE  5  IS AT ELEMENT      146  NODE=         1
   ITEM= M    COMP= X      NAME= MX

VARIABLE  6  IS AT ELEMENT      147  NODE=         1
   ITEM= M    COMP= Y      NAME= MY

VARIABLE  7  IS AT ELEMENT      148  NODE=         1
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE  8  IS AT ELEMENT      173  NODE=        87
   ITEM= F    COMP= X      NAME= FX

VARIABLE  9  IS AT ELEMENT      174  NODE=        87
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 10  IS AT ELEMENT      175  NODE=        87
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 11  IS AT ELEMENT      176  NODE=        87
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   ITEM= M    COMP= X     NAME= MX

VARIABLE 12  IS AT ELEMENT     177  NODE=       87
   ITEM= M    COMP= Y     NAME= MY

VARIABLE 13  IS AT ELEMENT     178  NODE=       87
   ITEM= M    COMP= Z     NAME= MZ

VARIABLE 14  IS AT ELEMENT     179  NODE=      130
   ITEM= F    COMP= X     NAME= FX

VARIABLE 15  IS AT ELEMENT     180  NODE=      130
   ITEM= F    COMP= Y     NAME= FY

VARIABLE 16  IS AT ELEMENT     181  NODE=      130
   ITEM= F    COMP= Z     NAME= FZ

VARIABLE 17  IS AT ELEMENT     182  NODE=      130
   ITEM= M    COMP= X     NAME= MX

VARIABLE 18  IS AT ELEMENT     183  NODE=      130
   ITEM= M    COMP= Y     NAME= MY

VARIABLE 19  IS AT ELEMENT     184  NODE=      130
   ITEM= M    COMP= Z     NAME= MZ

VARIABLE 20  IS AT ELEMENT     149  NODE=        9
   ITEM= F    COMP= X     NAME= FX

VARIABLE 21  IS AT ELEMENT     150  NODE=       10
   ITEM= F    COMP= Z     NAME= FZ

VARIABLE 22  IS AT ELEMENT     151  NODE=       15
   ITEM= F    COMP= Y     NAME= FY

VARIABLE 23  IS AT ELEMENT     153  NODE=       23
   ITEM= F    COMP= X     NAME= FX

VARIABLE 24  IS AT ELEMENT     154  NODE=       28
   ITEM= F    COMP= Z     NAME= FZ

VARIABLE 25  IS AT ELEMENT     155  NODE=       37
   ITEM= F    COMP= Y     NAME= FY

VARIABLE 26  IS AT ELEMENT     156  NODE=       39
   ITEM= F    COMP= X     NAME= FX

VARIABLE 27  IS AT ELEMENT     157  NODE=       44
   ITEM= F    COMP= Y     NAME= FY

VARIABLE 29  IS AT ELEMENT     158  NODE=       45
   ITEM= F    COMP= Z     NAME= FZ

VARIABLE 29  IS AT ELEMENT     161  NODE=      124
   ITEM= F    COMP= X     NAME= FX

VARIABLE 30  IS AT ELEMENT     162  NODE=      129
   ITEM= F    COMP= Z     NAME= FZ

VARIABLE 31  IS AT ELEMENT     163  NODE=       52
   ITEM= F    COMP= Y     NAME= FY

VARIABLE 32  IS AT ELEMENT     164  NODE=       54
   ITEM= F    COMP= Z     NAME= FZ

VARIABLE 33  IS AT ELEMENT     165  NODE=       57
   ITEM= F    COMP= X     NAME= FX

VARIABLE 34  IS AT ELEMENT     167  NODE=       73
   ITEM= F    COMP= Z     NAME= FZ

VARIABLE 35  IS AT ELEMENT     169  NODE=      131
   ITEM= F    COMP= X     NAME= FX

VARIABLE 36  IS AT ELEMENT     170  NODE=      131
   ITEM= F    COMP= Z     NAME= FZ

VARIABLE 37  IS AT ELEMENT     171  NODE=      133
   ITEM= F    COMP= X     NAME= FX

VARIABLE 38  IS AT ELEMENT     172  NODE=      133
   ITEM= F    COMP= Z     NAME= FZ

VARIABLE 39  IS AT ELEMENT     152  NODE=       14
   ITEM= F    COMP= Y     NAME= FY

VARIABLE 40  IS AT ELEMENT     159  NODE=       53
   ITEM= F    COMP= Y     NAME= FY

VARIABLE 41  IS AT ELEMENT     168  NODE=       61
   ITEM= F    COMP= Y     NAME= FY
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VARIABLE 42  IS AT ELEMENT     166  NODE=       78
   ITEM= F    COMP= Y     NAME= FY

VARIABLE 43  IS AT ELEMENT     160  NODE=       79
   ITEM= F    COMP= Y     NAME= FY

STORAGE COMPLETE FOR     99 DATA POINTS

        SUMMARY OF VARIABLES STORED THIS STEP AND EXTREME VALUES
VARI TYPE     IDENTIFIERS     NAME    MINIMUM     AT TIME     MAXIMUM     AT TIME

  2 ESOL  143 F    X     FX       -0.6024E-01  16.44       0.4568E-01  16.62
  3 ESOL  144 F    Y     FY       -0.1804E-01  16.42       0.2090E-01  16.08
  4 ESOL  145 F    Z     FZ       -0.5033E-01  16.40       0.5126E-01  16.08
  5 ESOL  146 M    X     MX       -0.6654E-01  16.44       0.8431E-01  16.14
  6 ESOL  147 M    Y     MY       -0.2335      16.76       0.2464      16.40
  7 ESOL  148 M    Z     MZ       -0.6347E-01  16.60       0.7449E-01  16.76
  8 ESOL  173 F    X     FX       -0.1448E-01  16.22       0.1281E-01  16.64
  9 ESOL  174 F    Y     FY       -0.1122E-01  16.30       0.1289E-01  16.74
 10 ESOL  175 F    Z     FZ       -0.4115E-02  16.78       0.4723E-02  17.66
 11 ESOL  176 M    X     MX       -0.4728E-01  16.74       0.4189E-01  16.30
 12 ESOL  177 M    Y     MY       -0.2282E-01  16.20       0.2102E-01  16.64
 13 ESOL  178 M    Z     MZ       -0.9060E-02  16.08       0.1136E-01  16.22
 14 ESOL  179 F    X     FX       -0.8955E-02  16.20       0.8092E-02  16.64
 15 ESOL  180 F    Y     FY       -0.6653E-02  16.44       0.6336E-02  16.62
 16 ESOL  181 F    Z     FZ       -0.4726E-02  16.62       0.5131E-02  16.18
 17 ESOL  182 M    X     MX       -0.4659E-02  16.62       0.5052E-02  16.18
 18 ESOL  183 M    Y     MY       -0.2842E-02  16.20       0.2111E-02  16.84
 19 ESOL  184 M    Z     MZ       -0.1113E-01  16.64       0.1249E-01  16.20
 20 ESOL  149 F    X     FX       -0.1058      17.42       0.1667      16.46
 21 ESOL  150 F    Z     FZ       -0.1319      16.12       0.1229      16.44
 22 ESOL  151 F    Y     FY       -0.1504      16.12       0.1422      16.46
 23 ESOL  153 F    X     FX       -0.1301      17.10       0.1330      16.72
 24 ESOL  154 F    Z     FZ       -0.9418E-01  16.12       0.7806E-01  16.44
 25 ESOL  155 F    Y     FY       -0.1213      16.46       0.1244      16.16
 26 ESOL  156 F    X     FX       -0.1705      17.04       0.1635      17.42
 27 ESOL  157 F    Y     FY       -0.1455E-01  16.70       0.1401E-01  17.12
 28 ESOL  158 F    Z     FZ       -0.6249E-01  16.46       0.6359E-01  16.78
 29 ESOL  161 F    X     FX       -0.1443E-01  16.20       0.1408E-01  16.64
 30 ESOL  162 F    Z     FZ       -0.8138E-02  16.18       0.7224E-02  16.62
 31 ESOL  163 F    Y     FY       -0.1513E-01  17.84       0.1092E-01  17.40
 32 ESOL  164 F    Z     FZ       -0.1290E-01  16.82       0.1545E-01  16.38
 33 ESOL  165 F    X     FX       -0.1573      16.78       0.1355      17.00
 34 ESOL  167 F    Z     FZ       -0.3265E-01  16.74       0.3215E-01  17.04
 35 ESOL  169 F    X     FX       -0.1019      16.20       0.7815E-01  16.64
 36 ESOL  170 F    Z     FZ       -0.1407E-01  16.38       0.1280E-01  17.32
 37 ESOL  171 F    X     FX       -0.9381E-01  16.20       0.8415E-01  16.64
 38 ESOL  172 F    Z     FZ       -0.5746E-02  16.98       0.5964E-02  17.42
 39 ESOL  152 F    Y     FY       -0.5966E-03  16.62       0.5333E-03  16.46
 40 ESOL  159 F    Y     FY       -0.6129E-03  16.76       0.6724E-03  16.34
 41 ESOL  168 F    Y     FY       -0.3499E-02  16.76       0.3918E-02  16.34
 42 ESOL  166 F    Y     FY       -0.1595E-02  16.06       0.1290E-02  16.62
 43 ESOL  160 F    Y     FY       -0.4407E-03  16.30       0.4842E-03  16.74

        POST26 SUMMARY OF VARIABLE EXTREME VALUES
VARI TYPE     IDENTIFIERS     NAME    MINIMUM     AT TIME     MAXIMUM     AT TIME

  2 ESOL  143 F    X     FX       -0.6024E-01  16.44       0.4568E-01  16.62
  3 ESOL  144 F    Y     FY       -0.1804E-01  16.42       0.2090E-01  16.08
  4 ESOL  145 F    Z     FZ       -0.5033E-01  16.40       0.5126E-01  16.08
  5 ESOL  146 M    X     MX       -0.6654E-01  16.44       0.8431E-01  16.14
  6 ESOL  147 M    Y     MY       -0.2335      16.76       0.2464      16.40
  7 ESOL  148 M    Z     MZ       -0.6347E-01  16.60       0.7449E-01  16.76
  8 ESOL  173 F    X     FX       -0.1448E-01  16.22       0.1281E-01  16.64
  9 ESOL  174 F    Y     FY       -0.1122E-01  16.30       0.1289E-01  16.74
 10 ESOL  175 F    Z     FZ       -0.4115E-02  16.78       0.4723E-02  17.66
 11 ESOL  176 M    X     MX       -0.4728E-01  16.74       0.4189E-01  16.30
 12 ESOL  177 M    Y     MY       -0.2282E-01  16.20       0.2102E-01  16.64
 13 ESOL  178 M    Z     MZ       -0.9060E-02  16.08       0.1136E-01  16.22
 14 ESOL  179 F    X     FX       -0.8955E-02  16.20       0.8092E-02  16.64
 15 ESOL  180 F    Y     FY       -0.6653E-02  16.44       0.6336E-02  16.62
 16 ESOL  181 F    Z     FZ       -0.4726E-02  16.62       0.5131E-02  16.18
 17 ESOL  182 M    X     MX       -0.4659E-02  16.62       0.5052E-02  16.18
 18 ESOL  183 M    Y     MY       -0.2842E-02  16.20       0.2111E-02  16.84
 19 ESOL  184 M    Z     MZ       -0.1113E-01  16.64       0.1249E-01  16.20
 20 ESOL  149 F    X     FX       -0.1058      17.42       0.1667      16.46
 21 ESOL  150 F    Z     FZ       -0.1319      16.12       0.1229      16.44
 22 ESOL  151 F    Y     FY       -0.1504      16.12       0.1422      16.46
 23 ESOL  153 F    X     FX       -0.1301      17.10       0.1330      16.72
 24 ESOL  154 F    Z     FZ       -0.9418E-01  16.12       0.7806E-01  16.44
 25 ESOL  155 F    Y     FY       -0.1213      16.46       0.1244      16.16
 26 ESOL  156 F    X     FX       -0.1705      17.04       0.1635      17.42
 27 ESOL  157 F    Y     FY       -0.1455E-01  16.70       0.1401E-01  17.12
 28 ESOL  158 F    Z     FZ       -0.6249E-01  16.46       0.6359E-01  16.78
 29 ESOL  161 F    X     FX       -0.1443E-01  16.20       0.1408E-01  16.64
 30 ESOL  162 F    Z     FZ       -0.8138E-02  16.18       0.7224E-02  16.62
 31 ESOL  163 F    Y     FY       -0.1513E-01  17.84       0.1092E-01  17.40
 32 ESOL  164 F    Z     FZ       -0.1290E-01  16.82       0.1545E-01  16.38
 33 ESOL  165 F    X     FX       -0.1573      16.78       0.1355      17.00
 34 ESOL  167 F    Z     FZ       -0.3265E-01  16.74       0.3215E-01  17.04
```

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 35 ESOL   169 F    X    FX        -0.1019       16.20      0.7815E-01  16.64
 36 ESOL   170 F    Z    FZ        -0.1407E-01   16.38      0.1289E-01  17.32
 37 ESOL   171 F    X    FX        -0.9381E-01   16.20      0.8445E-01  16.64
 38 ESOL   172 F    Z    FZ        -0.5746E-02   16.98      0.5964E-02  17.42
 39 ESOL   152 F    Y    FY        -0.5966E-03   16.62      0.5333E-03  16.46
 40 ESOL   159 F    Y    FY        -0.6129E-03   16.76      0.6724E-03  16.34
 41 ESOL   168 F    Y    FY        -0.3459E-02   16.76      0.3918E-02  16.34
 42 ESOL   166 F    Y    FY        -0.1595E-02   16.06      0.1290E-02  16.62
 43 ESOL   160 F    Y    FY        -0.4407E-03   16.30      0.4842E-03  16.74

ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2ecx.db
 FOR POSSIBLE RESUME FROM THIS POINT


***** ROUTINE COMPLETED *****  CP =      16908.210



*****  ANSYS SOLUTION ROUTINE  *****

PERFORM AN EXPANSION PASS


EXPAND   100 SOLUTIONS
 IN THE RANGE FROM  0.90000      TO   1.0000
 CALCULATE ELEMENT RESULTS AS WELL AS THE NODAL DOF SOLUTION

PRINT BASI ITEMS WITH A FREQUENCY OF NONE
  FOR ALL APPLICABLE ENTITIES

*****  ANSYS SOLVE    COMMAND  *****
1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC     03:43:08  OCT 10, 1995 CP=  16908.240
FOR SUPPORT CALL                  PHONE                    FAX

 Time-history analysis of coupled system (presurizer spray line)

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**

                    S O L U T I O N   O P T I O N S

  PROBLEM DIMENSIONALITY. . . . . .3-D
  DEGREES OF FREEDOM. . . . . *UX   UY   UZ   ROTX ROTY ROTZ
  ANALYSIS TYPE . . . . . .TRANSIENT
     SOLUTION METHOD. . . . . .REDUCED
     EXPANSION PASS . . . . . .ON

                    L O A D   S T E P   O P T I O N S

  LOAD STEP NUMBER. . . . . .  1
  NUMBER OF SOLUTIONS TO BE EXPANDED. . . . . 100
     RANGE. . . . . 0.90000     TO   1.0000
  ELEMENT RESULTS CALCULATION . . . . . ON
  PRINT OUTPUT CONTROLS
     ITEM      FREQUENCY   COMPONENT
     BASI      NONE
  DATABASE OUTPUT CONTROLS
     ITEM      FREQUENCY   COMPONENT
     NSOL      LAST


  *** ELEMENT RESULT CALCULATION TIMES
 TYPE  NUMBER   ENAME      TOTAL CP  AVE CP

    1     120  PIPE16        0.538    0.004
    2      22  PIPE18        0.199    0.009
    3      10  COMBIN14      0.010    0.001
    4      12  COMBIN14      0.021    0.002
    5      11  COMBIN14      0.021    0.002
    6       3  COMBIN14      0.010    0.003
    7       3  COMBIN14      0.011    0.004
    8       3  COMBIN14      0.000    0.000
   30      31  MASS21        0.052    0.002
   71      12  BEAM4         0.080    0.007
   72       5  MASS21        0.000    0.000

  *** NODAL LOAD CALCULATION TIMES
 TYPE  NUMBER   ENAME      TOTAL CP  AVE CP

    1     120  PIPE16        0.068    0.001
    2      22  PIPE18        0.021    0.001
    3      10  COMBIN14      0.000    0.000
    4      12  COMBIN14      0.000    0.000
    5      11  COMBIN14      0.000    0.000
    6       3  COMBIN14      0.000    0.000
    7       3  COMBIN14      0.000    0.000
    8       3  COMBIN14      0.000    0.000
   30      31  MASS21        0.016    0.000
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   71      12  BEAM4         0.000    0.000
   72       5  MASS21        0.000    0.000


*** ANSYS BINARY FILE STATISTICS
 BUFFER SIZE USED= 4096
      33.406 MB WRITTEN ON RESULTS FILE: pb2ecx.rst

ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2ecx.db
 FOR POSSIBLE RESUME FROM THIS POINT

FINISH SOLUTION PROCESSING


***** ROUTINE COMPLETED *****  CP =      17124.150


1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC     03:51:14  OCT 10, 1995 CP=  17124.180
FOR SUPPORT CALL                  PHONE                    FAX

 Time-history analysis of coupled system (presurizer spray line)

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


        ***** TIME-HISTORY POSTPROCESSOR (POST26) *****

ALL POST26 SPECIFICATIONS ARE RESET TO INITIAL DEFAULTS

MAXIMUM NUMBER OF VARIABLES= 43

VARIABLE  2  IS AT ELEMENT      143  NODE=        1
   ITEM= F    COMP= X      NAME= FX

VARIABLE  3  IS AT ELEMENT      144  NODE=        1
   ITEM= F    COMP= Y      NAME= FY

VARIABLE  4  IS AT ELEMENT      145  NODE=        1
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE  5  IS AT ELEMENT      146  NODE=        1
   ITEM= M    COMP= X      NAME= MX

VARIABLE  6  IS AT ELEMENT      147  NODE=        1
   ITEM= M    COMP= Y      NAME= MY

VARIABLE  7  IS AT ELEMENT      148  NODE=        1
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE  8  IS AT ELEMENT      173  NODE=       87
   ITEM= F    COMP= X      NAME= FX

VARIABLE  9  IS AT ELEMENT      174  NODE=       87
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 10  IS AT ELEMENT      175  NODE=       87
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 11  IS AT ELEMENT      176  NODE=       87
   ITEM= M    COMP= X      NAME= MX

VARIABLE 12  IS AT ELEMENT      177  NODE=       87
   ITEM= M    COMP= Y      NAME= MY

VARIABLE 13  IS AT ELEMENT      178  NODE=       87
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE 14  IS AT ELEMENT      179  NODE=      130
   ITEM= F    COMP= X      NAME= FX

VARIABLE 15  IS AT ELEMENT      180  NODE=      130
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 16  IS AT ELEMENT      181  NODE=      130
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 17  IS AT ELEMENT      182  NODE=      130
   ITEM= M    COMP= X      NAME= MX

VARIABLE 18  IS AT ELEMENT      183  NODE=      130
   ITEM= M    COMP= Y      NAME= MY

VARIABLE 19  IS AT ELEMENT      184  NODE=      130
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE 20  IS AT ELEMENT      149  NODE=        9
   ITEM= F    COMP= X      NAME= FX
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VARIABLE 21  IS AT ELEMENT     150  NODE=       10
   ITEM= F    COMP= Z     NAME= FZ

VARIABLE 22  IS AT ELEMENT     151  NODE=       15
   ITEM= F    COMP= Y     NAME= FY

VARIABLE 23  IS AT ELEMENT     153  NODE=       23
   ITEM= F    COMP= X     NAME= FX

VARIABLE 24  IS AT ELEMENT     154  NODE=       28
   ITEM= F    COMP= Z     NAME= FZ

VARIABLE 25  IS AT ELEMENT     155  NODE=       37
   ITEM= F    COMP= Y     NAME= FY

VARIABLE 26  IS AT ELEMENT     156  NODE=       39
   ITEM= F    COMP= X     NAME= FX

VARIABLE 27  IS AT ELEMENT     157  NODE=       44
   ITEM= F    COMP= Y     NAME= FY

VARIABLE 28  IS AT ELEMENT     158  NODE=       45
   ITEM= F    COMP= Z     NAME= FZ

VARIABLE 29  IS AT ELEMENT     161  NODE=      124
   ITEM= F    COMP= X     NAME= FX

VARIABLE 30  IS AT ELEMENT     162  NODE=      129
   ITEM= F    COMP= Z     NAME= FZ

VARIABLE 31  IS AT ELEMENT     163  NODE=       52
   ITEM= F    COMP= Y     NAME= FY

VARIABLE 32  IS AT ELEMENT     164  NODE=       54
   ITEM= F    COMP= Z     NAME= FZ

VARIABLE 33  IS AT ELEMENT     165  NODE=       57
   ITEM= F    COMP= X     NAME= FX

VARIABLE 34  IS AT ELEMENT     167  NODE=       73
   ITEM= F    COMP= Z     NAME= FZ

VARIABLE 35  IS AT ELEMENT     169  NODE=      131
   ITEM= F    COMP= X     NAME= FX

VARIABLE 36  IS AT ELEMENT     170  NODE=      131
   ITEM= F    COMP= Z     NAME= FZ

VARIABLE 37  IS AT ELEMENT     171  NODE=      133
   ITEM= F    COMP= X     NAME= FX

VARIABLE 38  IS AT ELEMENT     172  NODE=      133
   ITEM= F    COMP= Z     NAME= FZ

VARIABLE 39  IS AT ELEMENT     152  NODE=       14
   ITEM= F    COMP= Y     NAME= FY

VARIA   40  IS AT ELEMENT     159  NODE=       53
   IT    F    COMP= Y     NAME= FY

      E 41  IS AT ELEMENT     168  NODE=       61
      = F    COMP= Y     NAME= FY

        42  IS AT ELEMENT     166  NODE=       78
      = F    COMP= Y     NAME= FY

     LE 43  IS AT ELEMENT     160  NODE=       79
     M= F    COMP= Y     NAME= FY

 STORAGE COMPLETE FOR     100 DATA POINTS

         SUMMARY OF VARIABLES STORED THIS STEP AND EXTREME VALUES
 VARI TYPE     IDENTIFIERS     NAME     MINIMUM     AT TIME      MAXIMUM    AT TIME

   2 ESOL   143 F    X      FX       -0.3306E-01   18.34      0.2698E-01  19.26
   3 ESOL   144 F    Y      FY       -0.1476E-01   18.98      0.1509E-01  18.64
   4 ESOL   145 F    Z      FZ       -0.3719E-01   18.26      0.3822E-01  18.62
   5 ESOL   146 M    X      MX       -0.5503E-01   18.96      0.5732E-01  19.96
   6 ESOL   147 M    Y      MY       -0.1411       18.64      0.1451      18.26
   7 ESOL   148 M    Z      MZ       -0.6662E-01   19.00      0.6855E-01  19.94
   8 ESOL   173 F    X      FX       -0.1307E-01   19.68      0.1083E-01  18.20
   9 ESOL   174 F    Y      FY       -0.6154E-02   18.50      0.7152E-02  18.60
  10 ESOL   175 F    Z      FZ       -0.3475E-02   18.12      0.2751E-02  18.52
  11 ESOL   176 M    X      MX       -0.2480E-01   18.60      0.2227E-01  18.50
  12 ESOL   177 M    Y      MY       -0.1881E-01   19.68      0.1743E-01  18.20
  13 ESOL   178 M    Z      MZ       -0.7905E-02   18.52      0.8967E-02  19.68
  14 ESOL   179 F    X      FX       -0.7868E-02   19.68      0.6294E-02  18.20
  15 ESOL   180 F    Y      FY       -0.5619E-02   18.38      0.4336E-02  18.20
  16 ESOL   181 F    Z      FZ       -0.2739E-02   18.72      0.3458E-02  18.38
  17 ESOL   182 M    X      MX       -0.2702E-02   18.72      0.3421E-02  18.38
  18 ESOL   183 M    Y      MY       -0.2275E-02   19.68      0.1632E-02  18.20
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  19 ESOL   184 M    Z      MZ       -0.8494E-02   18.20      0.1114E-01  19.68
  20 ESOL   149 F    X      FX       -0.6491E-01   18.72      0.7349E-01  18.32
  21 ESOL   150 F    Z      FZ       -0.9228E-01   18.62      0.8915E-01  18.98
  22 ESOL   151 F    Y      FY       -0.9833E-01   19.26      0.9999E-01  18.30
  23 ESOL   153 F    X      FX       -0.1011       18.98      0.8611E-01  18.64
  24 ESOL   154 F    Z      FZ       -0.5795E-01   19.98      0.5759E-01  18.28
  25 ESOL   155 F    Y      FY       -0.8854E-01   18.30      0.8441E-01  19.30
  26 ESOL   156 F    X      FX       -0.1155       18.32      0.9385E-01  19.50
  27 ESOL   157 F    Y      FY       -0.1218E-01   18.04      0.9969E-02  19.98
  28 ESOL   158 F    Z      FZ       -0.5353E-01   18.32      0.4566E-01  19.30
  29 ESOL   161 F    X      FX       -0.1266E-01   19.68      0.1098E-01  18.20
  30 ESOL   162 F    Z      FZ       -0.4798E-02   18.38      0.4107E-02  18.72
  31 ESOL   163 F    Y      FY       -0.1300E-01   19.96      0.8249E-02  18.76
  32 ESOL   164 F    Z      FZ       -0.6362E-02   18.62      0.7920E-02  19.78
  33 ESOL   165 F    X      FX       -0.1286       18.12      0.1015      18.52
  34 ESOL   167 F    Z      FZ       -0.2047E-01   18.08      0.2166E-01  18.34
  35 ESOL   169 F    X      FX       -0.6924E-01   19.68      0.7536E-01  18.20
  36 ESOL   170 F    Z      FZ       -0.7559E-02   18.96      0.9549E-02  18.62
  37 ESOL   171 F    X      FX       -0.7171E-01   19.68      0.7168E-01  18.20
  38 ESOL   172 F    Z      FZ       -0.3887E-02   18.34      0.4054E-02  18.12
  39 ESOL   152 F    Y      FY       -0.4663E-03   19.00      0.5195E-03  19.92
  40 ESOL   159 F    Y      FY       -0.4943E-03   18.06      0.4599E-03  19.02
  41 ESOL   168 F    Y      FY       -0.2628E-02   18.08      0.2796E-02  19.02
  42 ESOL   166 F    Y      FY       -0.1096E-02   18.38      0.7481E-03  18.58
  43 ESOL   160 F    Y      FY       -0.2329E-03   18.50      0.2602E-03  18.60

         POST26 SUMMARY OF VARIABLE EXTREME VALUES
 VARI TYPE     IDENTIFIERS     NAME     MINIMUM     AT TIME      MAXIMUM    AT TIME

   2 ESOL   143 F    X      FX       -0.3306E-01   18.34      0.2698E-01  19.26
   3 ESOL   144 F    Y      FY       -0.1476E-01   18.98      0.1509E-01  18.64
   4 ESOL   145 F    Z      FZ       -0.3719E-01   18.26      0.3822E-01  18.62
   5 ESOL   146 M    X      MX       -0.5503E-01   18.96      0.5732E-01  19.96
   6 ESOL   147 M    Y      MY       -0.1411       18.64      0.1451      18.26
   7 ESOL   148 M    Z      MZ       -0.6662E-01   19.00      0.6855E-01  19.94
   8 ESOL   173 F    X      FX       -0.1307E-01   19.68      0.1083E-01  18.20
   9 ESOL   174 F    Y      FY       -0.6154E-02   18.50      0.7152E-02  18.60
  10 ESOL   175 F    Z      FZ       -0.3475E-02   18.12      0.2751E-02  18.52
  11 ESOL   176 M    X      MX       -0.2480E-01   18.60      0.2227E-01  18.50
  12 ESOL   177 M    Y      MY       -0.1881E-01   19.68      0.1743E-01  18.20
  13 ESOL   178 M    Z      MZ       -0.7905E-02   18.52      0.8967E-02  19.68
  14 ESOL   179 F    X      FX       -0.7868E-02   19.68      0.6294E-02  18.20
  15 ESOL   180 F    Y      FY       -0.5619E-02   18.38      0.4336E-02  18.20
  16 ESOL   181 F    Z      FZ       -0.2739E-02   18.72      0.3458E-02  18.38
  17 ESOL   182 M    X      MX       -0.2702E-02   18.72      0.3421E-02  18.38
  18 ESOL   183 M    Y      MY       -0.2275E-02   19.68      0.1632E-02  18.20
  19 ESOL   184 M    Z      MZ       -0.8494E-02   18.20      0.1114E-01  19.68
  20 ESOL   149 F    X      FX       -0.6491E-01   18.72      0.7349E-01  18.32
  21 ESOL   150 F    Z      FZ       -0.9228E-01   18.62      0.8915E-01  18.98
  22 ESOL   151 F    Y      FY       -0.9833E-01   19.28      0.9999E-01  18.30
  23 ESOL   153 F    X      FX       -0.1011       18.98      0.8611E-01  18.64
  24 ESOL   154 F    Z      FZ       -0.5795E-01   19.98      0.5759E-01  18.28
  25 ESOL   155 F    Y      FY       -0.8854E-01   18.30      0.8441E-01  19.30
  26 ESOL   156 F    X      FX       -0.1155       18.32      0.9385E-01  19.50
  27 ESOL   157 F    Y      FY       -0.1218E-01   18.04      0.9969E-02  19.98
  28 ESOL   158 F    Z      FZ       -0.5353E-01   18.32      0.4566E-01  19.30
  29 ESOL   161 F    X      FX       -0.1266E-01   19.68      0.1098E-01  18.20
  30 ESOL   162 F    Z      FZ       -0.4798E-02   18.38      0.4107E-02  18.72
  31 ESOL   163 F    Y      FY       -0.1300E-01   19.96      0.8249E-02  18.76
  32 ESOL   164 F    Z      FZ       -0.6362E-02   18.62      0.7920E-02  19.78
  33 ESOL   165 F    X      FX       -0.1286       18.12      0.1015      18.52
  34 ESOL   167 F    Z      FZ       -0.2047E-01   18.08      0.2166E-01  18.34
  35 ESOL   169 F    X      FX       -0.6924E-01   19.68      0.7536E-01  18.20
  36 ESOL   170 F    Z      FZ       -0.7559E-02   18.96      0.9549E-02  18.62
  37 ESOL   171 F    X      FX       -0.7171E-01   19.68      0.7168E-01  18.20
  38 ESOL   172 F    Z      FZ       -0.3887E-02   18.34      0.4054E-02  18.12
  39 ESOL   152 F    Y      FY       -0.4663E-03   19.00      0.5195E-03  19.92
  40 ESOL   159 F    Y      FY       -0.4943E-03   18.06      0.4599E-03  19.02
  41 ESOL   168 F    Y      FY       -0.2628E-02   18.08      0.2796E-02  19.02
  42 ESOL   166 F    Y      FY       -0.1096E-02   18.38      0.7481E-03  18.58
  43 ESOL   160 F    Y      FY       -0.2329E-03   18.50      0.2602E-03  18.60

 ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2ecx.db
  FOR POSSIBLE RESUME FROM THIS POINT


 ***** ROUTINE COMPLETED *****  CP =      17136.890



 *****  ANSYS SOLUTION ROUTINE  *****

 PERFORM AN EXPANSION PASS


 EXPAND   100 SOLUTIONS
  IN THE RANGE FROM        0.      TO  0.10000
  CALCULATE ELEMENT RESULTS AS WELL AS THE NODAL DOF SOLUTION

 PRINT BASI ITEMS WITH A FREQUENCY OF NONE
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  FOR ALL APPLICABLE ENTITIES

***** ANSYS SOLVE    COMMAND *****
1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC     03:51:43  OCT 10, 1995 CP=  17136.920
FOR SUPPORT CALL                    PHONE                    FAX

 Time-history analysis of coupled system (presurizer spray line)

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**

                    S O L U T I O N   O P T I O N S

  PROBLEM DIMENSIONALITY. . . . . .3-D
  DEGREES OF FREEDOM. . . . . UX   UY   UZ   ROTX ROTY ROTZ
  ANALYSIS TYPE . . . . . .TRANSIENT
     SOLUTION METHOD. . . . . .REDUCED
     EXPANSION PASS . . . . . .ON

                    L O A D   S T E P   O P T I O N S

  LOAD STEP NUMBER. . . . . 1
  NUMBER OF SOLUTIONS TO BE EXPANDED. . . . . 100
     RANGE. . . . . 0.      TO  0.10000
  ELEMENT RESULTS CALCULATION . . . . . ON
  PRINT OUTPUT CONTROLS
     ITEM      FREQUENCY   COMPONENT
     BASI        NONE
  DATABASE OUTPUT CONTROLS
     ITEM      FREQUENCY   COMPONENT
     NSOL        LAST


   *** ELEMENT RESULT CALCULATION TIMES
 TYPE  NUMBER    ENAME       TOTAL CP  AVE CP

    1     120  PIPE16          0.601    0.005
    2      22  PIPE18          0.169    0.008
    3      10  COMBIN14        0.010    0.001
    4      12  COMBIN14        0.010    0.001
    5      11  COMBIN14        0.011    0.001
    6       3  COMBIN14        0.000    0.000
    7       3  COMBIN14        0.000    0.000
    8       3  COMBIN14        0.010    0.003
   30      31  MASS21          0.011    0.000
   71      12  BEAM4           0.061    0.005
   72       5  MASS21          0.000    0.000

   *** NODAL LOAD CALCULATION TIMES
 TYPE  NUMBER    ENAME       TOTAL CP  AVE CP

    1     120  PIPE16          0.069    0.001
    2      22  PIPE18          0.010    0.000
    3      10  COMBIN14        0.000    0.000
    4      12  COMBIN14        0.000    0.000
    5      11  COMBIN14        0.010    0.001
    6       3  COMBIN14        0.000    0.000
    7       3  COMBIN14        0.000    0.000
    8       3  COMBIN14        0.010    0.003
   30      31  MASS21          0.020    0.001
   71      12  BEAM4           0.010    0.001
   72       5  MASS21          0.000    0.000


*** ANSYS BINARY FILE STATISTICS
 BUFFER SIZE USED=  4096
      33.074 MB WRITTEN ON RESULTS FILE: pb2ecx.rst

ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2ecx.db
 FOR POSSIBLE RESUME FROM THIS POINT

FINISH SOLUTION PROCESSING


***** ROUTINE COMPLETED *****  CP =      17350.410

1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC     03:59:16  OCT 10, 1995 CP=  17350.420
FOR SUPPORT CALL                    PHONE                    FAX

 Time-history analysis of coupled system (presurizer spray line)

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


        ***** TIME-HISTORY POSTPROCESSOR (POST26) *****
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ALL POST26 SPECIFICATIONS ARE RESET TO INITIAL DEFAULTS

MAXIMUM NUMBER OF VARIABLES= 30

VARIABLE  2  IS AT ELEMENT       1  NODE=       1
   ITEM= F    COMP= X      NAME= FX

VARIABLE  3  IS AT ELEMENT       1  NODE=       1
   ITEM= F    COMP= Y      NAME= FY

VARIABLE  4  IS AT ELEMENT       1  NODE=       1
   ITEM= M    COMP= X      NAME= MX

VARIABLE  5  IS AT ELEMENT       1  NODE=       1
   ITEM= M    COMP= Y      NAME= MY

VARIABLE  6  IS AT ELEMENT       8  NODE=       6
   ITEM= F    COMP= X      NAME= FX

VARIABLE  7  IS AT ELEMENT       8  NODE=       6
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE  8  IS AT ELEMENT      12  NODE=      10
   ITEM= F    COMP= X      NAME= FX

VARIABLE  9  IS AT ELEMENT      12  NODE=      10
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 10  IS AT ELEMENT      12  NODE=      10
   ITEM= M    COMP= X      NAME= MX

VARIABLE 11  IS AT ELEMENT      12  NODE=      10
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE 12  IS AT ELEMENT      22  NODE=      15
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 13  IS AT ELEMENT      22  NODE=      15
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE 14  IS AT ELEMENT      32  NODE=      23
   ITEM= M    COMP= X      NAME= MX

VARIABLE 15  IS AT ELEMENT      32  NODE=      23
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE 16  IS AT ELEMENT      48  NODE=      35
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 17  IS AT ELEMENT      52  NODE=      39
   ITEM= F    COMP= X      NAME= FX

VARIABLE 18  IS AT ELEMENT      52  NODE=      39
   ITEM= M    COMP= Y      NAME= MY

VARIABLE 19  IS AT ELEMENT      58  NODE=      45
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 20  IS AT ELEMENT      58  NODE=      45
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE 21  IS AT ELEMENT      71  NODE=      56
   ITEM= F    COMP= X      NAME= FX

VARIABLE 22  IS AT ELEMENT      86  NODE=      72
   ITEM= F    COMP= X      NAME= FX

VARIABLE 23  IS AT ELEMENT     107  NODE=      93
   ITEM= M    COMP= X      NAME= MX

VARIABLE 24  IS AT ELEMENT     114  NODE=     102
   ITEM= F    COMP= X      NAME= FX

VARIABLE 25  IS AT ELEMENT     114  NODE=     102
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 26  IS AT ELEMENT     117  NODE=     103
   ITEM= F    COMP= X      NAME= FX

VARIABLE 27  IS AT ELEMENT     123  NODE=     112
   ITEM= M    COMP= Y      NAME= MY

VARIABLE 28  IS AT ELEMENT     125  NODE=     101
   ITEM= F    COMP= X      NAME= FX

VARIABLE 29  IS AT ELEMENT     125  NODE=     101
   ITEM= M    COMP= Y      NAME= MY

VARIABLE 30  IS AT ELEMENT     139  NODE=      65
   ITEM= F    COMP= X      NAME= FX
```

```
 STORAGE COMPLETE FOR     99 DATA POINTS

        SUMMARY OF VARIABLES STORED THIS STEP AND EXTREME VALUES
VARI TYPE     IDENTIFIERS     NAME   MINIMUM     AT TIME     MAXIMUM     AT TIME

  2 ESOL     1 P     X      FX      -0.1337E-02  1.380      0.1125E-02 0.4200
  3 ESOL     1 P     Y      FY      -0.5835E-03  1.420      0.3610E-03 0.3400
  4 ESOL     1 M     X      MX      -0.7537E-03 0.6400      0.1004E-02  1.700
  5 ESOL     1 M     Y      MY      -0.5236E-02 0.4800      0.6253E-02  1.460
  6 ESOL     8 P     X      FX      -0.3832E-03  1.360      0.4741E-03 0.4200
  7 ESOL     8 M     Z      MZ      -0.6745E-03 0.4200      0.7314E-03  1.360
  8 ESOL    12 P     X      FX      -0.1771E-02 0.2400      0.2221E-02  1.540
  9 ESOL    12 P     Z      FZ      -0.4182E-03  1.720      0.4646E-03  1.360
 10 ESOL    12 M     X      MX      -0.4669E-02  1.360      0.3410E-02  1.020
 11 ESOL    12 M     Z      MZ      -0.5895E-02  1.520      0.5617E-02 0.2400
 12 ESOL    22 P     Z      FZ      -0.5328E-03  1.720      0.6765E-03  1.360
 13 ESOL    22 M     Z      MZ      -0.3569E-02  1.160      0.3713E-02 0.2200
 14 ESOL    32 M     X      MX      -0.2182E-02  1.360      0.2542E-02  1.720
 15 ESOL    32 M     Z      MZ      -0.1903E-01 0.4800      0.2516E-01  1.520
 16 ESOL    48 P     Y      FY      -0.8447E-03  1.040      0.1448E-02  1.380
 17 ESOL    52 P     X      FX      -0.5678E-02  1.580      0.4042E-02 0.4800
 18 ESOL    52 M     Y      MY      -0.3312E-01 0.5000      0.4495E-01  1.600
 19 ESOL    58 P     Z      FZ      -0.4395E-03 0.6400      0.6542E-03  1.700
 20 ESOL    58 M     Z      MZ      -0.2896E-02  1.680      0.2734E-02 0.4800
 21 ESOL    71 P     X      FX      -0.1807E-02 0.1800      0.1629E-02  1.300
 22 ESOL    86 P     X      FX      -0.2767E-02 0.3400      0.4560E-02  1.540
 23 ESOL   107 M     X      MX      -0.1637E-02 0.4800      0.2239E-02  1.580
 24 ESOL   114 P     X      FX      -0.1178E-02  1.420      0.8152E-03 0.2400
 25 ESOL   114 P     Z      FZ      -0.1592E-02 0.4800      0.2138E-02  1.580
 26 ESOL   117 P     X      FX      -0.6175E-03  1.580      0.4048E-03 0.4000
 27 ESOL   123 M     Y      MY      -0.8603E-04  1.600      0.6314E-04 0.5400
 28 ESOL   125 P     X      FX      -0.1016E-02  1.560      0.6285E-03 0.4000
 29 ESOL   125 M     Y      MY      -0.1167E-02  1.560      0.7197E-03 0.4000
 30 ESOL   139 P     X      FX      -0.1994E-02 0.4000      0.3284E-02  1.540

          POST26 SUMMARY OF VARIABLE EXTREME VALUES
VARI TYPE     IDENTIFIERS     NAME     MINIMUM     AT TIME     MAXIMUM     AT TIME

  2 ESOL     1 P     X      FX      -0.1337E-02  1.380      0.1125E-02 0.4200
  3 ESOL     1 P     Y      FY      -0.5835E-03  1.420      0.3610E-03 0.3400
  4 ESOL     1 M     X      MX      -0.7537E-03 0.6400      0.1004E-02  1.700
  5 ESOL     1 M     Y      MY      -0.5236E-02 0.4800      0.6253E-02  1.460
  6 ESOL     8 P     X      FX      -0.3832E-03  1.360      0.4741E-03 0.4200
  7 ESOL     8 M     Z      MZ      -0.6745E-03 0.4200      0.7314E-03  1.360
  8 ESOL    12 P     X      FX      -0.1771E-02 0.2400      0.2221E-02  1.540
  9 ESOL    12 P     Z      FZ      -0.4182E-03  1.720      0.4646E-03  1.360
 10 ESOL    12 M     X      MX      -0.4669E-02  1.360      0.3410E-02  1.020
 11 ESOL    12 M     Z      MZ      -0.5895E-02  1.520      0.5617E-02 0.2400
 12 ESOL    22 P     Z      FZ      -0.5328E-03  1.720      0.6765E-03  1.360
 13 ESOL    22 M     Z      MZ      -0.3569E-02  1.160      0.3713E-02 0.2200
 14 ESOL    32 M     X      MX      -0.2182E-02  1.360      0.2542E-02  1.720
 15 ESOL    32 M     Z      MZ      -0.1903E-01 0.4800      0.2516E-01  1.520
 16 ESOL    48 P     Y      FY      -0.8447E-03  1.040      0.1448E-02  1.380
 17 ESOL    52 P     X      FX      -0.5678E-02  1.580      0.4042E-02 0.4800
 18 ESOL    52 M     Y      MY      -0.3312E-01 0.5000      0.4495E-01  1.600
 19 ESOL    58 P     Z      FZ      -0.4395E-03 0.6400      0.6542E-03  1.700
 20 ESOL    58 M     Z      MZ      -0.2896E-02  1.680      0.2734E-02 0.4800
 21 ESOL    71 P     X      FX      -0.1807E-02 0.1800      0.1629E-02  1.300
 22 ESOL    86 P     X      FX      -0.2767E-02 0.3400      0.4560E-02  1.540
 23 ESOL   107 M     X      MX      -0.1637E-02 0.4800      0.2239E-02  1.580
 24 ESOL   114 P     X      FX      -0.1178E-02  1.420      0.8152E-03 0.2400
 25 ESOL   114 P     Z      FZ      -0.1592E-02 0.4800      0.2138E-02  1.580
 26 ESOL   117 P     X      FX      -0.6175E-03  1.580      0.4048E-03 0.4000
 27 ESOL   123 M     Y      MY      -0.8603E-04  1.600      0.6314E-04 0.5400
 28 ESOL   125 P     X      FX      -0.1016E-02  1.560      0.6285E-03 0.4000
 29 ESOL   125 M     Y      MY      -0.1167E-02  1.560      0.7197E-03 0.4000
 30 ESOL   139 P     X      FX      -0.1994E-02 0.4000      0.3284E-02  1.540

 ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2ecx.db
  FOR POSSIBLE RESUME FROM THIS POINT


 ***** ROUTINE COMPLETED *****  CP =      17359.600


 *****  ANSYS SOLUTION ROUTINE  *****

 PERFORM AN EXPANSION PASS

 EXPAND   100 SOLUTIONS
  IN THE RANGE FROM  0.10000      TO  0.20000
  CALCULATE ELEMENT RESULTS AS WELL AS THE NODAL DOF SOLUTION

 PRINT BASI ITEMS WITH A FREQUENCY OF NONE
   FOR ALL APPLICABLE ENTITIES

 *****  ANSYS SOLVE    COMMAND  *****
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1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC      03:59:40  OCT 10, 1995 CP=   17359.630
FOR SUPPORT CALL                  PHONE                      FAX

 Time-history analysis of coupled system (pressurizer spray line)

 **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**

                    S O L U T I O N   O P T I O N S

   PROBLEM DIMENSIONALITY. . . . . .3-D
   DEGREES OF FREEDOM. . . . . UX   UY   UZ   ROTX ROTY ROTZ
   ANALYSIS TYPE . . . . . .TRANSIENT
      SOLUTION METHOD. . . . . .REDUCED
      EXPANSION PASS . . . . . .ON

                    L O A D   S T E P   O P T I O N S

   LOAD STEP NUMBER. . . . . 1
   NUMBER OF SOLUTIONS TO BE EXPANDED. . . . . 100
      RANGE. . . . . 0.10000     TO  0.20000
   ELEMENT RESULTS CALCULATION . . . . . ON
   PRINT OUTPUT CONTROLS
      ITEM      FREQUENCY   COMPONENT
      BASI        NONE
   DATABASE OUTPUT CONTROLS
      ITEM      FREQUENCY   COMPONENT
      NSOL        LAST


    *** ELEMENT RESULT CALCULATION TIMES
  TYPE  NUMBER    ENAME       TOTAL CP  AVE CP

     1      120  PIPE16         0.551     0.005
     2       22  PIPE18         0.219     0.010
     3       10  COMBIN14       0.010     0.001
     4       12  COMBIN14       0.010     0.001
     5       11  COMBIN14       0.010     0.001
     6        3  COMBIN14       0.000     0.000
     7        3  COMBIN14       0.000     0.000
     8        3  COMBIN14       0.010     0.003
    30       31  MASS21         0.040     0.001
    71       12  BEAM4          0.060     0.005
    72        5  MASS21         0.000     0.000

    *** NODAL LOAD CALCULATION TIMES
  TYPE  NUMBER    ENAME       TOTAL CP  AVE CP

     1      120  PIPE16         0.060     0.000
     2       22  PIPE18         0.000     0.000
     3       10  COMBIN14       0.000     0.000
     4       12  COMBIN14       0.020     0.002
     5       11  COMBIN14       0.020     0.002
     6        3  COMBIN14       0.000     0.000
     7        3  COMBIN14       0.000     0.000
     8        3  COMBIN14       0.000     0.000
    30       31  MASS21         0.000     0.000
    71       12  BEAM4          0.000     0.000
    72        5  MASS21         0.010     0.002


 *** ANSYS BINARY FILE STATISTICS
 BUFFER SIZE USED=  4096
       37.078 MB WRITTEN ON RESULTS FILE: pb2ecx.rst

 ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2ecx.db
  FOR POSSIBLE RESUME FROM THIS POINT

 FINISH SOLUTION PROCESSING


 ***** ROUTINE COMPLETED *****  CP =      17572.749


1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC      04:07:17  OCT 10, 1995 CP=   17572.771
FOR SUPPORT CALL                  PHONE                      FAX

 Time-history analysis of coupled system (pressurizer spray line)

 **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


          ***** TIME-HISTORY POSTPROCESSOR (POST26) *****

 ALL POST26 SPECIFICATIONS ARE RESET TO INITIAL DEFAULTS
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```
 MAXIMUM NUMBER OF VARIABLES= 30

 VARIABLE  2  IS AT ELEMENT       1  NODE=        1
    ITEM= F    COMP= X      NAME= FX

 VARIABLE  3  IS AT ELEMENT       1  NODE=        1
    ITEM= F    COMP= Y      NAME= FY

 VARIABLE  4  IS AT ELEMENT       1  NODE=        1
    ITEM= M    COMP= X      NAME= MX

 VARIABLE  5  IS AT ELEMENT       1  NODE=        1
    ITEM= M    COMP= Y      NAME= MY

 VARIABLE  6  IS AT ELEMENT       8  NODE=        6
    ITEM= F    COMP= X      NAME= FX

 VARIABLE  7  IS AT ELEMENT       8  NODE=        6
    ITEM= M    COMP= Z      NAME= MZ

 VARIABLE  8  IS AT ELEMENT      12  NODE=       10
    ITEM= F    COMP= X      NAME= FX

 VARIABLE  9  IS AT ELEMENT      12  NODE=       10
    ITEM= F    COMP= Z      NAME= FZ

 VARIABLE 10  IS AT ELEMENT      12  NODE=       10
    ITEM= M    COMP= X      NAME= MX

 VARIABLE 11  IS AT ELEMENT      12  NODE=       10
    ITEM= M    COMP= Z      NAME= MZ

 VARIABLE 12  IS AT ELEMENT      22  NODE=       15
    ITEM= F    COMP= Z      NAME= FZ

 VARIABLE 13  IS AT ELEMENT      22  NODE=       15
    ITEM= M    COMP= Z      NAME= MZ

 VARIABLE 14  IS AT ELEMENT      32  NODE=       23
    ITEM= M    COMP= X      NAME= MX

 VARIABLE 15  IS AT ELEMENT      32  NODE=       23
    ITEM= M    COMP= Z      NAME= MZ

 VARIABLE 16  IS AT ELEMENT      48  NODE=       35
    ITEM= F    COMP= Y      NAME= FY

 VARIABLE 17  IS AT ELEMENT      52  NODE=       39
    ITEM= F    COMP= X      NAME= FX

 VARIABLE 18  IS AT ELEMENT      52  NODE=       39
    ITEM= M    COMP= Y      NAME= MY

 VARIABLE 19  IS AT ELEMENT      58  NODE=       45
    ITEM= F    COMP= Z      NAME= FZ

 VARIABLE 20  IS AT ELEMENT      58  NODE=       45
    ITEM= M    COMP= Z      NAME= MZ

 VARIABLE 21  IS AT ELEMENT      71  NODE=       56
    ITEM= F    COMP= X      NAME= FX

 VARIABLE 22  IS AT ELEMENT      86  NODE=       72
    ITEM= F    COMP= X      NAME= FX

 VARIABLE 23  IS AT ELEMENT     107  NODE=       93
    ITEM= M    COMP= X      NAME= MX

 VARIABLE 24  IS AT ELEMENT     114  NODE=      102
    ITEM= F    COMP= X      NAME= FX

 VARIABLE 25  IS AT ELEMENT     114  NODE=      102
    ITEM= F    COMP= Z      NAME= FZ

 VARIABLE 26  IS AT ELEMENT     117  NODE=      103
    ITEM= F    COMP= X      NAME= FX

 VARIABLE 27  IS AT ELEMENT     123  NODE=      112
    ITEM= M    COMP= Y      NAME= MY

 VARIABLE 28  IS AT ELEMENT     125  NODE=      101
    ITEM= F    COMP= X      NAME= FX

 VARIABLE 29  IS AT ELEMENT     125  NODE=      101
    ITEM= M    COMP= Y      NAME= MY

 VARIABLE 30  IS AT ELEMENT     139  NODE=       65
    ITEM= F    COMP= X      NAME= FX

 STORAGE COMPLETE FOR      99 DATA POINTS
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```
        SUMMARY OF VARIABLES STORED THIS STEP AND EXTREME VALUES
VARI TYPE     IDENTIFIERS     NAME    MINIMUM     AT TIME     MAXIMUM     AT TIME

  2 ESOL     1 F     X      FX       -0.5218E-01  3.940      0.3629E-01  3.600
  3 ESOL     1 F     Y      FY       -0.1574E-01  3.840      0.7758E-02  3.600
  4 ESOL     1 M     X      MX       -0.3345E-01  3.840      0.1382E-01  3.600
  5 ESOL     1 M     Y      MY       -0.1492      3.720      0.2535      3.880
  6 ESOL     8 F     X      FX       -0.5802E-01  3.980      0.3739E-01  3.780
  7 ESOL     8 M     Z      MZ       -0.3922E-01  3.780      0.7321E-01  3.940
  8 ESOL    12 F     X      FX       -0.1241      3.980      0.9907E-01  3.740
  9 ESOL    12 F     Z      FZ       -0.1403E-01  3.680      0.2583E-01  3.920
 10 ESOL    12 M     X      MX       -0.2445      3.900      0.1170      3.680
 11 ESOL    12 M     Z      MZ       -0.3641      3.780      0.4705      3.980
 12 ESOL    22 F     Z      FZ       -0.1884E-01  3.640      0.3242E-01  3.940
 13 ESOL    22 M     Z      MZ       -0.3150      3.760      0.4893      3.980
 14 ESOL    32 M     X      MX       -0.1078      3.880      0.5978E-01  3.620
 15 ESOL    32 M     Z      MZ       -0.2133      3.460      0.4732      3.840
 16 ESOL    48 F     Y      FY       -0.4191E-01  3.660      0.8450E-01  3.940
 17 ESOL    52 F     X      FX       -0.1115      3.920      0.6972E-01  3.600
 18 ESOL    52 M     Y      MY       -0.4907      3.600      0.9785      3.960
 19 ESOL    58 F     Z      FZ       -0.2355E-01  3.860      0.1392E-01  3.680
 20 ESOL    58 M     Z      MZ       -0.1000      4.000      0.8976E-01  3.700
 21 ESOL    71 F     X      FX       -0.2597      3.960      0.2540      3.660
 22 ESOL    86 F     X      FX       -0.1263      3.960      0.1991      3.660
 23 ESOL   107 M     X      MX       -0.2867E-01  3.580      0.5373E-01  3.940
 24 ESOL   114 F     X      FX       -0.8440E-01  3.660      0.6377E-01  3.960
 25 ESOL   114 F     Z      FZ       -0.2414E-01  3.600      0.5263E-01  3.940
 26 ESOL   117 F     X      FX       -0.1128E-01  3.840      0.8899E-02  3.600
 27 ESOL   123 M     Y      MY       -0.3141E-02  3.960      0.1482E-02  3.580
 28 ESOL   125 F     X      FX       -0.3547E-01  3.660      0.2265E-01  3.960
 29 ESOL   125 M     Y      MY       -0.4055E-01  3.660      0.2429E-01  3.960
 30 ESOL   139 F     X      FX       -0.6350E-01  3.420      0.1249      3.660

        POST26 SUMMARY OF VARIABLE EXTREME VALUES
VARI TYPE     IDENTIFIERS     NAME    MINIMUM     AT TIME     MAXIMUM     AT TIME

  2 ESOL     1 F     X      FX       -0.5218E-01  3.940      0.3629E-01  3.600
  3 ESOL     1 F     Y      FY       -0.1574E-01  3.840      0.7758E-02  3.600
  4 ESOL     1 M     X      MX       -0.3345E-01  3.840      0.1382E-01  3.600
  5 ESOL     1 M     Y      MY       -0.1492      3.720      0.2535      3.880
  6 ESOL     8 F     X      FX       -0.5802E-01  3.980      0.3739E-01  3.780
  7 ESOL     8 M     Z      MZ       -0.3922E-01  3.780      0.7321E-01  3.940
  8 ESOL    12 F     X      FX       -0.1241      3.980      0.9907E-01  3.740
  9 ESOL    12 F     Z      FZ       -0.1403E-01  3.680      0.2583E-01  3.920
 10 ESOL    12 M     X      MX       -0.2445      3.900      0.1170      3.680
 11 ESOL    12 M     Z      MZ       -0.3641      3.780      0.4705      3.980
 12 ESOL    22 F     Z      FZ       -0.1884E-01  3.640      0.3242E-01  3.940
 13 ESOL    22 M     Z      MZ       -0.3150      3.760      0.4893      3.980
 14 ESOL    32 M     X      MX       -0.1078      3.880      0.5978E-01  3.620
 15 ESOL    32 M     Z      MZ       -0.2133      3.460      0.4732      3.840
 16 ESOL    48 F     Y      FY       -0.4191E-01  3.660      0.8450E-01  3.940
 17 ESOL    52 F     X      FX       -0.1115      3.920      0.6972E-01  3.600
 18 ESOL    52 M     Y      MY       -0.4907      3.600      0.9785      3.960
 19 ESOL    58 F     Z      FZ       -0.2355E-01  3.860      0.1392E-01  3.680
 20 ESOL    58 M     Z      MZ       -0.1000      4.000      0.8976E-01  3.700
 21 ESOL    71 F     X      FX       -0.2597      3.960      0.2540      3.660
 22 ESOL    86 F     X      FX       -0.1263      3.960      0.1991      3.660
 23 ESOL   107 M     X      MX       -0.2867E-01  3.580      0.5373E-01  3.940
 24 ESOL   114 F     X      FX       -0.8440E-01  3.660      0.6377E-01  3.960
 25 ESOL   114 F     Z      FZ       -0.2414E-01  3.600      0.5263E-01  3.940
 26 ESOL   117 F     X      FX       -0.1128E-01  3.840      0.8899E-02  3.600
 27 ESOL   123 M     Y      MY       -0.3141E-02  3.960      0.1482E-02  3.580
 28 ESOL   125 F     X      FX       -0.3547E-01  3.660      0.2265E-01  3.960
 29 ESOL   125 M     Y      MY       -0.4055E-01  3.660      0.2429E-01  3.960
 30 ESOL   139 F     X      FX       -0.6350E-01  3.420      0.1249      3.660

 ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2ecx.db
  FOR POSSIBLE RESUME FROM THIS POINT


 ***** ROUTINE COMPLETED *****  CP =      17582.291


 *****  ANSYS SOLUTION ROUTINE  *****


 PERFORM AN EXPANSION PASS


 EXPAND   100 SOLUTIONS
  IN THE RANGE FROM  0.20000     TO  0.30000
  CALCULATE ELEMENT RESULTS AS WELL AS THE NODAL DOF SOLUTION

 PRINT BASIC ITEMS WITH A FREQUENCY OF NONE
  FOR ALL APPLICABLE ENTITIES

 *****  ANSYS SOLVE    COMMAND  *****
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
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40416-2          VERSION=SUN4SPARC     04:07:41  OCT 10, 1995 CP=  17582.320
FOR SUPPORT CALL                  PHONE                      FAX

 Time-history analysis of coupled system (presurizer spray line)

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**

                    S O L U T I O N   O P T I O N S

  PROBLEM DIMENSIONALITY. . . . . . . . . . . . . . .3-D
  DEGREES OF FREEDOM. . . . . . UX   UY   UZ   ROTX ROTY ROTZ
  ANALYSIS TYPE . . . . . . . . . . . . . . . . . . .TRANSIENT
     SOLUTION METHOD. . . . . . . . . . . . . . . . .REDUCED
     EXPANSION PASS . . . . . . . . . . . . . . . . .ON

                    L O A D   S T E P   O P T I O N S

  LOAD STEP NUMBER. . . . . . . . . . . . . . . . . .  1
  NUMBER OF SOLUTIONS TO BE EXPANDED. . . . . . . . .100
     RANGE. . . . . . . . . . . . . . . . . . . . . . 0.20000     TO  0.30000
  ELEMENT RESULTS CALCULATION . . . . . . . . . . . . ON
  PRINT OUTPUT CONTROLS
     ITEM      FREQUENCY   COMPONENT
     BASI      NONE
  DATABASE OUTPUT CONTROLS
     ITEM      FREQUENCY   COMPONENT
     NSOL      LAST


  *** ELEMENT RESULT CALCULATION TIMES
 TYPE  NUMBER    ENAME      TOTAL CP  AVE CP

    1     120  PIPE16         0.517    0.004
    2      22  PIPE18         0.168    0.008
    3      10  COMBIN14       0.020    0.002
    4      12  COMBIN14       0.010    0.001
    5      11  COMBIN14       0.010    0.001
    6       3  COMBIN14       0.000    0.000
    7       3  COMBIN14       0.000    0.000
    8       3  COMBIN14       0.010    0.003
   30      31  MASS21         0.078    0.003
   71      12  BEAM4          0.059    0.005
   72       5  MASS21         0.000    0.000

  *** NODAL LOAD CALCULATION TIMES
 TYPE  NUMBER    ENAME      TOTAL CP  AVE CP

    1     120  PIPE16         0.061    0.001
    2      22  PIPE18         0.020    0.001
    3      10  COMBIN14       0.000    0.000
    4      12  COMBIN14       0.000    0.000
    5      11  COMBIN14       0.000    0.000
    6       3  COMBIN14       0.010    0.003
    7       3  COMBIN14       0.000    0.000
    8       3  COMBIN14       0.000    0.000
   30      31  MASS21         0.020    0.001
   71      12  BEAM4          0.000    0.000
   72       5  MASS21         0.000    0.000


*** ANSYS BINARY FILE STATISTICS
 BUFFER SIZE USED=  4096
      33.078 MB WRITTEN ON RESULTS FILE: pb2ecx.rst

ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2ecx.db
 FOR POSSIBLE RESUME FROM THIS POINT

FINISH SOLUTION PROCESSING


***** ROUTINE COMPLETED *****  CP =      17794.940


1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC     04:15:14  OCT 10, 1995 CP=  17794.959
FOR SUPPORT CALL                  PHONE                      FAX

 Time-history analysis of coupled system (presurizer spray line)

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


         ***** TIME-HISTORY POSTPROCESSOR (POST26) *****

ALL POST26 SPECIFICATIONS ARE RESET TO INITIAL DEFAULTS

MAXIMUM NUMBER OF VARIABLES= 30

VARIABLE  2  IS AT ELEMENT       1  NODE=         1
```



```
   ITEM= F    COMP= X      NAME= FX

VARIABLE  3  IS AT ELEMENT       1  NODE=         1
   ITEM= F    COMP= Y      NAME= FY

VARIABLE  4  IS AT ELEMENT       1  NODE=         1
   ITEM= M    COMP= X      NAME= MX

VARIABLE  5  IS AT ELEMENT       1  NODE=         1
   ITEM= M    COMP= Y      NAME= MY

VARIABLE  6  IS AT ELEMENT       8  NODE=         6
   ITEM= F    COMP= X      NAME= FX

VARIABLE  7  IS AT ELEMENT       8  NODE=         6
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE  8  IS AT ELEMENT      12  NODE=        10
   ITEM= F    COMP= X      NAME= FX

VARIABLE  9  IS AT ELEMENT      12  NODE=        10
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 10  IS AT ELEMENT      12  NODE=        10
   ITEM= M    COMP= X      NAME= MX

VARIABLE 11  IS AT ELEMENT      12  NODE=        10
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE 12  IS AT ELEMENT      22  NODE=        15
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 13  IS AT ELEMENT      22  NODE=        15
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE 14  IS AT ELEMENT      32  NODE=        23
   ITEM= M    COMP= X      NAME= MX

VARIABLE 15  IS AT ELEMENT      32  NODE=        23
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE 16  IS AT ELEMENT      48  NODE=        35
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 17  IS AT ELEMENT      52  NODE=        39
   ITEM= F    COMP= X      NAME= FX

VARIABLE 18  IS AT ELEMENT      52  NODE=        39
   ITEM= M    COMP= Y      NAME= MY

VARIABLE 19  IS AT ELEMENT      58  NODE=        45
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 20  IS AT ELEMENT      58  NODE=        45
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE 21  IS AT ELEMENT      71  NODE=        56
   ITEM= F    COMP= X      NAME= FX

VARIABLE 22  IS AT ELEMENT      86  NODE=        72
   ITEM= F    COMP= X      NAME= FX

VARIABLE 23  IS AT ELEMENT     107  NODE=        93
   ITEM= M    COMP= X      NAME= MX

VARIABLE 24  IS AT ELEMENT     114  NODE=       102
   ITEM= F    COMP= X      NAME= FX

VARIABLE 25  IS AT ELEMENT     114  NODE=       102
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 26  IS AT ELEMENT     117  NODE=       103
   ITEM= F    COMP= X      NAME= FX

VARIABLE 27  IS AT ELEMENT     123  NODE=       112
   ITEM= M    COMP= Y      NAME= MY

VARIABLE 28  IS AT ELEMENT     125  NODE=       101
   ITEM= F    COMP= X      NAME= FX

VARIABLE 29  IS AT ELEMENT     125  NODE=       101
   ITEM= M    COMP= Y      NAME= MY

VARIABLE 30  IS AT ELEMENT     139  NODE=        65
   ITEM= F    COMP= X      NAME= FX

STORAGE COMPLETE FOR     99 DATA POINTS

        SUMMARY OF VARIABLES STORED THIS STEP AND EXTREME VALUES
VARI TYPE    IDENTIFIERS     NAME   MINIMUM     AT TIME     MAXIMUM   AT TIME
```

2	ESOL	1 F	X	FX	-0.1469	4.460	0.1118	4.320
3	ESOL	1 F	Y	FY	-0.2923E-01	4.580	0.2437E-01	4.760
4	ESOL	1 M	X	MX	-0.1393	5.120	0.1295	4.780
5	ESOL	1 M	Y	MY	-0.4584	4.260	0.4409	4.580
6	ESOL	8 F	X	FX	-0.1294	4.460	0.1103	4.320
7	ESOL	8 M	Z	MZ	-0.1389	5.420	0.1657	4.460
8	ESOL	12 F	X	FX	-0.1527	4.460	0.1945	4.280
9	ESOL	12 F	Z	FZ	-0.6893E-01	5.500	0.7803E-01	5.120
10	ESOL	12 M	X	MX	-0.6935	5.120	0.6272	4.780
11	ESOL	12 M	Z	MZ	-0.7683	4.320	0.6679	4.460
12	ESOL	22 F	Z	FZ	-0.1071	4.840	0.1156	5.180
13	ESOL	22 M	Z	MZ	-0.7969	4.300	0.7937	4.460
14	ESOL	32 M	X	MX	-0.4125	5.160	0.3998	5.500
15	ESOL	32 M	Z	MZ	-0.8191	4.180	1.099	4.600
16	ESOL	48 F	Y	FY	-0.1876	4.840	0.2190	5.180
17	ESOL	52 F	X	FX	-0.2252	4.640	0.1919	4.260
18	ESOL	52 M	Y	MY	-1.627	4.260	1.857	4.680
19	ESOL	58 F	Z	FZ	-0.9391E-01	4.500	0.9873E-01	5.440
20	ESOL	58 M	Z	MZ	-0.2345	4.560	0.2028	5.020
21	ESOL	71 F	X	FX	-0.3760	4.660	0.4761	4.460
22	ESOL	86 F	X	FX	-0.2801	5.420	0.4118	4.460
23	ESOL	107 M	X	MX	-0.9565E-01	4.260	0.1132	4.640
24	ESOL	114 F	X	FX	-0.1640	4.460	0.1423	5.420
25	ESOL	114 F	Z	FZ	-0.8484E-01	4.260	0.9180E-01	4.720
26	ESOL	117 F	X	FX	-0.3025E-01	4.460	0.1743E-01	5.160
27	ESOL	123 M	Y	MY	-0.5740E-02	4.740	0.6305E-02	4.300
28	ESOL	125 F	X	FX	-0.7879E-01	4.460	0.6196E-01	5.420
29	ESOL	125 M	Y	MY	-0.8910E-01	4.460	0.7229E-01	5.420
30	ESOL	139 F	X	FX	-0.1582	5.420	0.2490	4.460

T26 SUMMARY OF VARIABLE EXTREME VALUES

VARI	TYPE	IDENTIFIERS		NAME	MINIMUM	AT TIME	MAXIMUM	AT TIME
2	ESOL	1 F	X	FX	-0.1469	4.460	0.1118	4.320
3	ESOL	1 F	Y	FY	-0.2923E-01	4.580	0.2437E-01	4.760
4	ESOL	1 M	X	MX	-0.1393	5.120	0.1295	4.780
5	ESOL	1 M	Y	MY	-0.4584	4.260	0.4409	4.580
6	ESOL	8 F	X	FX	-0.1294	4.460	0.1103	4.320
7	ESOL	8 M	Z	MZ	-0.1389	5.420	0.1657	4.460
8	ESOL	12 F	X	FX	-0.1527	4.460	0.1945	4.280
9	ESOL	12 F	Z	FZ	-0.6893E-01	5.500	0.7803E-01	5.120
10	ESOL	12 M	X	MX	-0.6935	5.120	0.6272	4.780
11	ESOL	12 M	Z	MZ	-0.7683	4.320	0.6679	4.460
12	ESOL	22 F	Z	FZ	-0.1071	4.840	0.1156	5.180
13	ESOL	22 M	Z	MZ	-0.7969	4.300	0.7937	4.460
14	ESOL	32 M	X	MX	-0.4125	5.160	0.3998	5.500
15	ESOL	32 M	Z	MZ	-0.8191	4.180	1.099	4.600
16	ESOL	48 F	Y	FY	-0.1876	4.840	0.2190	5.180
17	ESOL	52 F	X	FX	-0.2252	4.640	0.1919	4.260
18	ESOL	52 M	Y	MY	-1.627	4.260	1.857	4.680
19	ESOL	58 F	Z	FZ	-0.9391E-01	4.500	0.9873E-01	5.440
20	ESOL	58 M	Z	MZ	-0.23[illegible]	4.560	0.2028	5.020
21	ESOL	71 F	X	FX	-0.37[illegible]	4.660	0.4761	4.460
22	ESOL	86 F	X	FX	-0.2801	5.420	0.4118	4.460
23	ESOL	107 M	X	MX	-0.9565E-01	4.260	0.1132	4.640
24	ESOL	114 F	X	FX	-0.1640	4.460	0.1423	5.420
25	ESOL	114 F	Z	FZ	-0.8484E-01	4.260	0.9180E-01	4.720
26	ESOL	117 F	X	FX	-0.3025E-01	4.460	0.1743E-01	5.160
27	ESOL	123 M	Y	MY	-0.5740E-02	4.740	0.6305E-02	4.300
28	ESOL	125 F	X	FX	-0.7879E-01	4.460	0.6196E-01	5.420
29	ESOL	125 M	Y	MY	-0.8910E-01	4.460	0.7229E-01	5.420
30	ESOL	139 F	X	FX	-0.1582	5.420	0.2490	4.460

ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2ecx.db
FOR POSSIBLE RESUME FROM THIS POINT

***** ROUTINE COMPLETED ***** CP = 17805.071

***** ANSYS SOLUTION ROUTINE *****

PERFORM AN EXPANSION PASS

EXPAND 100 SOLUTIONS
IN THE RANGE FROM 0.30000 TO 0.40000
CALCULATE ELEMENT RESULTS AS WELL AS THE NODAL DOF SOLUTION

PRINT BASI ITEMS WITH A FREQUENCY OF NONE
FOR ALL APPLICABLE ENTITIES

***** ANSYS SOLVE COMMAND *****
1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM REVISION 5.0 *****
40416-2 VERSION=SUN4SPARC 04:15:41 OCT 10, 1995 CP= 17805.100
FOR SUPPORT CALL PHONE FAX

Time-history analysis of coupled system (presurizer spray line)

ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY

S O L U T I O N   O P T I O N S

PROBLEM DIMENSIONALITY. 3-D
DEGREES OF FREEDOM. . . . . . UX UY UZ ROTX ROTY ROTZ
ANALYSIS TYPE . . . . .TRANSIENT
SOLUTION METHOD. . . . . .REDUCED
EXPANSION PASS . . . . .ON

L O A D   S T E P   O P T I O N S

LOAD STEP NUMBER. 1
NUMBER OF SOLUTIONS TO BE EXPANDED. 100
RANGE. 0.30000 TO 0.40000
ELEMENT RESULTS CALCULATION . . . . ON
PRINT OUTPUT CONTROLS
ITEM FREQUENCY COMPONENT
BASI NONE
DATABASE OUTPUT CONTROLS
ITEM FREQUENCY COMPONENT
NSOL LAST

*** ELEMENT RESULT CALCULATION TIMES

TYPE	NUMBER	ENAME	TOTAL CP	AVE CP
1	120	PIPE16	0.510	0.004
2	22	PIPE18	0.188	0.009
3	10	COMBIN14	0.000	0.000
4	12	COMBIN14	0.012	0.001
5	11	COMBIN14	0.029	0.003
6	3	COMBIN14	0.000	0.000
7	3	COMBIN14	0.000	0.000
8	3	COMBIN14	0.000	0.000
30	31	MASS21	0.031	0.001
71	12	BEAM4	0.069	0.006
72	5	MASS21	0.000	0.000

*** NODAL LOAD CALCULATION TIMES

TYPE	NUMBER	ENAME	TOTAL CP	AVE CP
1	120	PIPE16	0.080	0.001
2	22	PIPE18	0.010	0.000
3	10	COMBIN14	0.000	0.000
4	12	COMBIN14	0.000	0.000
5	11	COMBIN14	0.000	0.000
6	3	COMBIN14	0.010	0.003
7	3	COMBIN14	0.000	0.000
8	3	COMBIN14	0.000	0.000
30	31	MASS21	0.021	0.001
71	12	BEAM4	0.000	0.000
72	5	MASS21	0.000	0.000

*** ANSYS BINARY FILE STATISTICS
BUFFER SIZE USED= 4096
33.078 MB WRITTEN ON RESULTS FILE: pb2ecx.rst

ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2ecx.db
FOR POSSIBLE RESUME FROM THIS POINT

FINISH SOLUTION PROCESSING

***** ROUTINE COMPLETED ***** CP = 18018.170

1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM REVISION 5.0 *****
40416-2 VERSION=SUN4SPARC 04:23:18 OCT 10, 1995 CP= 18018.190
FOR SUPPORT CALL PHONE FAX

Time-history analysis of coupled system (presurizer spray line)

ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY

***** TIME-HISTORY POSTPROCESSOR (POST26) *****

ALL POST26 SPECIFICATIONS ARE RESET TO INITIAL DEFAULTS

MAXIMUM NUMBER OF VARIABLES= 30

VARIABLE 2 IS AT ELEMENT 1 NODE= 1
ITEM= F COMP= X NAME= FX

VARIABLE 3 IS AT ELEMENT 1 NODE= 1

```
   ITEM= P    COMP= Y     NAME= PY

VARIABLE  4  IS AT ELEMENT       1  NODE=        1
   ITEM= M    COMP= X     NAME= MX

VARIABLE  5  IS AT ELEMENT       1  NODE=        1
   ITEM= M    COMP= Y     NAME= MY

VARIABLE  6  IS AT ELEMENT       8  NODE=        6
   ITEM= P    COMP= X     NAME= PX

VARIABLE  7  IS AT ELEMENT       8  NODE=        6
   ITEM= M    COMP= Z     NAME= MZ

VARIABLE  8  IS AT ELEMENT      12  NODE=       10
   ITEM= P    COMP= X     NAME= PX

VARIABLE  9  IS AT ELEMENT      12  NODE=       10
   ITEM= P    COMP= Z     NAME= PZ

VARIABLE 10  IS AT ELEMENT      12  NODE=       10
   ITEM= M    COMP= X     NAME= MX

VARIABLE 11  IS AT ELEMENT      12  NODE=       10
   ITEM= M    COMP= Z     NAME= MZ

VARIABLE 12  IS AT ELEMENT      22  NODE=       15
   ITEM= P    COMP= Z     NAME= PZ

VARIABLE 13  IS AT ELEMENT      22  NODE=       15
   ITEM= M    COMP= Z     NAME= MZ

VARIABLE 14  IS AT ELEMENT      32  NODE=       23
   ITEM= M    COMP= X     NAME= MX

VARIABLE 15  IS AT ELEMENT      32  NODE=       23
   ITEM= M    COMP= Z     NAME= MZ

VARIABLE 16  IS AT ELEMENT      48  NODE=       35
   ITEM= P    COMP= Y     NAME= PY

VARIABLE 17  IS AT ELEMENT      52  NODE=       39
   ITEM= P    COMP= X     NAME= PX

VARIABLE 18  IS AT ELEMENT      52  NODE=       39
   ITEM= M    COMP= Y     NAME= MY

VARIABLE 19  IS AT ELEMENT      58  NODE=       45
   ITEM= P    COMP= Z     NAME= PZ

VARIABLE 20  IS AT ELEMENT      58  NODE=       45
   ITEM= M    COMP= Z     NAME= MZ

VARIABLE 21  IS AT ELEMENT      71  NODE=       56
   ITEM= P    COMP= X     NAME= PX

VARIABLE 22  IS AT ELEMENT      86  NODE=       72
   ITEM= P    COMP= X     NAME= PX

VARIABLE 23  IS AT ELEMENT     107  NODE=       93
   ITEM= M    COMP= X     NAME= MX

VARIABLE 24  IS AT ELEMENT     114  NODE=      102
   ITEM= P    COMP= X     NAME= PX

VARIABLE 25  IS AT ELEMENT     114  NODE=      102
   ITEM= P    COMP= Z     NAME= PZ

VARIABLE 26  IS AT ELEMENT     117  NODE=      103
   ITEM= P    COMP= X     NAME= PX

VARIABLE 27  IS AT ELEMENT     123  NODE=      112
   ITEM= M    COMP= Y     NAME= MY

VARIABLE 28  IS AT ELEMENT     125  NODE=      101
   ITEM= P    COMP= X     NAME= PX

VARIABLE 29  IS AT ELEMENT     125  NODE=      101
   ITEM= M    COMP= Y     NAME= MY

VARIABLE 30  IS AT ELEMENT     139  NODE=       65
   ITEM= P    COMP= X     NAME= PX

STORAGE COMPLETE FOR     99 DATA POINTS

        SUMMARY OF VARIABLES STORED THIS STEP AND EXTREME VALUES
VARI TYPE     IDENTIFIERS     NAME    MINIMUM     AT TIME     MAXIMUM    AT TIME

  2 ESOL      1 P    X      PX       -0.8603E-01  6.360      0.8543E-01  7.620
  3 ESOL      1 P    Y      PY       -0.2041E-01  6.500      0.1956E-01  7.520
  4 ESOL      1 M    X      MX       -0.7420E-01  7.820      0.7044E-01  7.460
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```
  5 ESOL      1 M    Y      MY       -0.2571      6.100      0.2770      7.180
  6 ESOL      8 P    X      PX       -0.8081E-01  6.700      0.7130E-01  6.520
  7 ESOL      8 M    Z      MZ       -0.7705E-01  7.620      0.8517E-01  7.160
  8 ESOL     12 P    X      PX       -0.1387      6.340      0.1435      6.520
  9 ESOL     12 P    Z      PZ       -0.3941E-01  6.120      0.4157E-01  7.860
 10 ESOL     12 M    X      MX       -0.3653      7.860      0.3700      6.120
 11 ESOL     12 M    Z      MZ       -0.5574      6.520      0.5375      6.340
 12 ESOL     22 P    Z      PZ       -0.5067E-01  7.400      0.5612E-01  7.840
 13 ESOL     22 M    Z      MZ       -0.4358      6.520      0.4959      6.340
 14 ESOL     32 M    X      MX       -0.2196      7.820      0.2006      7.500
 15 ESOL     32 M    Z      MZ       -0.5247      7.500      0.6866      7.320
 16 ESOL     48 P    Y      PY       -0.1125      6.120      0.1069      7.820
 17 ESOL     52 P    X      PX       -0.1507      7.220      0.1162      7.620
 18 ESOL     52 M    Y      MY       -0.9407      6.040       1.157      7.220
 19 ESOL     58 P    Z      PZ       -0.4923E-01  7.020      0.5632E-01  7.380
 20 ESOL     58 M    Z      MZ       -0.1125      7.100      0.1652      6.920
 21 ESOL     71 P    X      PX       -0.3056      6.840      0.3971      6.880
 22 ESOL     86 P    X      PX       -0.2827      6.840      0.3510      6.880
 23 ESOL    107 M    X      MX       -0.4876E-01  6.040      0.7090E-01  7.220
 24 ESOL    114 P    X      PX       -0.1318      6.880      0.1047      6.840
 25 ESOL    114 P    Z      PZ       -0.4650E-01  6.040      0.6299E-01  7.220
 26 ESOL    117 P    X      PX       -0.2590E-01  6.880      0.2100E-01  6.760
 27 ESOL    123 M    Y      MY       -0.4361E-02  6.940      0.3637E-02  6.800
 28 ESOL    125 P    X      PX       -0.7001E-01  6.880      0.5792E-01  6.840
 29 ESOL    125 M    Y      MY       -0.7948E-01  6.880      0.6413E-01  6.760
 30 ESOL    139 P    X      PX       -0.1603      6.840      0.2051      6.880

        POST26 SUMMARY OF VARIABLE EXTREME VALUES
VARI TYPE     IDENTIFIERS     NAME    MINIMUM     AT TIME     MAXIMUM    AT TIME

  2 ESOL      1 P    X      PX       -0.8603E-01  6.360      0.8543E-01  7.620
  3 ESOL      1 P    Y      PY       -0.2041E-01  6.500      0.1956E-01  7.520
  4 ESOL      1 M    X      MX       -0.7420E-01  7.820      0.7044E-01  7.460
  5 ESOL      1 M    Y      MY       -0.2571      6.100      0.2770      7.180
  6 ESOL      8 P    X      PX       -0.8081E-01  6.700      0.7130E-01  6.520
  7 ESOL      8 M    Z      MZ       -0.7705E-01  7.620      0.8517E-01  7.160
  8 ESOL     12 P    X      PX       -0.1387      6.340      0.1435      6.520
  9 ESOL     12 P    Z      PZ       -0.3941E-01  6.120      0.4157E-01  7.860
 10 ESOL     12 M    X      MX       -0.3653      7.960      0.3700      6.120
 11 ESOL     12 M    Z      MZ       -0.5574      6.520      0.5375      6.340
 12 ESOL     22 P    Z      PZ       -0.5067E-01  7.400      0.5612E-01  7.840
 13 ESOL     22 M    Z      MZ       -0.4358      6.520      0.4959      6.340
 14 ESOL     32 M    X      MX       -0.2196      7.820      0.2006      7.500
 15 ESOL     32 M    Z      MZ       -0.5247      7.500      0.6866      7.320
 16 ESOL     48 P    Y      PY       -0.1125      6.120      0.1069      7.820
 17 ESOL     52 P    X      PX       -0.1507      7.220      0.1162      7.620
 18 ESOL     52 M    Y      MY       -0.9407      6.040       1.157      7.220
 19 ESOL     58 P    Z      PZ       -0.4923E-01  7.020      0.5632E-01  7.380
 20 ESOL     58 M    Z      MZ       -0.1125      7.100      0.1652      6.920
 21 ESOL     71 P    X      PX       -0.3056      6.840      0.3971      6.880
 22 ESOL     86 P    X      PX       -0.2827      6.840      0.3510      6.880
 23 ESOL    107 M    X      MX       -0.4876E-01  6.040      0.7090E-01  7.220
 24 ESOL    114 P    X      PX       -0.1318      6.880      0.1047      6.840
 25 ESOL    114 P    Z      PZ       -0.4650E-01  6.040      0.6299E-01  7.220
 26 ESOL    117 P    X      PX       -0.2590E-01  6.880      0.2100E-01  6.760
 27 ESOL    123 M    Y      MY       -0.4361E-02  6.940      0.3637E-02  6.800
 28 ESOL    125 P    X      PX       -0.7001E-01  6.880      0.5792E-01  6.840
 29 ESOL    125 M    Y      MY       -0.7948E-01  6.880      0.6413E-01  6.760
 30 ESOL    139 P    X      PX       -0.1603      6.840      0.2051      6.880

ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2ecx.db
 FOR POSSIBLE RESUME FROM THIS POINT


***** ROUTINE COMPLETED *****  CP =      18027.880


*****  ANSYS SOLUTION ROUTINE  *****


PERFORM AN EXPANSION PASS


EXPAND   100 SOLUTIONS
 IN THE RANGE FROM  0.40000      TO  0.50000
 CALCULATE ELEMENT RESULTS AS WELL AS THE NODAL DOF SOLUTION

PRINT BASI ITEMS WITH A FREQUENCY OF NONE
  FOR ALL APPLICABLE ENTITIES

*****  ANSYS SOLVE    COMMAND  *****
1

*****  ANSYS  -  ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC      04:23:44  OCT 10, 1995 CP=   18027.910
FOR SUPPORT CALL                    PHONE                    FAX

 Time-history analysis of coupled system (pressurizer spray line)

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**
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                    S O L U T I O N   O P T I O N S

 PROBLEM DIMENSIONALITY. . . . . .3-D
 DEGREES OF FREEDOM. . . . . UX   UY   UZ   ROTX ROTY ROTZ
 ANALYSIS TYPE . . . . . .TRANSIENT
    SOLUTION METHOD. . . . . .REDUCED
    EXPANSION PASS . . . . . .ON

                    L O A D   S T E P   O P T I O N S

 LOAD STEP NUMBER. . . . . 1
 NUMBER OF SOLUTIONS TO BE EXPANDED. . . . . 100
    RANGE. . . . . 0.40000     TO  0.50000
 ELEMENT RESULTS CALCULATION . . . . . ON
 PRINT OUTPUT CONTROLS
    ITEM      FREQUENCY   COMPONENT
    BASI        NONE
 DATABASE OUTPUT CONTROLS
    ITEM      FREQUENCY   COMPONENT
    NSOL        LAST


  *** ELEMENT RESULT CALCULATION TIMES
 TYPE  NUMBER    ENAME      TOTAL CP  AVE CP

    1     120   PIPE16        0.549    0.005
    2      22   PIPE18        0.141    0.006
    3      10   COMBIN14      0.010    0.001
    4      12   COMBIN14      0.012    0.001
    5      11   COMBIN14      0.041    0.004
    6       3   COMBIN14      0.000    0.000
    7       3   COMBIN14      0.000    0.000
    8       3   COMBIN14      0.010    0.003
   30      31   MASS21        0.041    0.001
   71      12   BEAM4         0.090    0.008
   72       5   MASS21        0.000    0.000

  *** NODAL LOAD CALCULATION TIMES
 TYPE  NUMBER    ENAME      TOTAL CP  AVE CP

    1     120   PIPE16        0.100    0.001
    2      22   PIPE18        0.029    0.001
    3      10   COMBIN14      0.000    0.000
    4      12   COMBIN14      0.010    0.001
    5      11   COMBIN14      0.000    0.000
    6       3   COMBIN14      0.000    0.000
    7       3   COMBIN14      0.000    0.000
    8       3   COMBIN14      0.000    0.000
   30      31   MASS21        0.000    0.000
   71      12   BEAM4         0.000    0.000
   72       5   MASS21        0.000    0.000


*** ANSYS BINARY FILE STATISTICS
 BUFFER SIZE USED= 4096
      33.078 MB WRITTEN ON RESULTS FILE: pb2ecx.rst

ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2ecx.db
 FOR POSSIBLE RESUME FROM THIS POINT

FINISH SOLUTION PROCESSING


***** ROUTINE COMPLETED *****  CP =      18240.939


1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2       VERSION=SUN4SPARC     04:31:18  OCT 10, 1995 CP=  18240.959
FOR SUPPORT CALL                  PHONE                    FAX

 Time-history analysis of coupled system (pressurizer spray line)

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


        ****  TIME-HISTORY POSTPROCESSOR (POST26) *****

ALL POST26 SPECIFICATIONS ARE RESET TO INITIAL DEFAULTS

MAXIMUM NUMBER OF VARIABLES= 30

VARIABLE  2  IS AT ELEMENT       1  NODE=         1
   ITEM= F    COMP= X     NAME= FX

VARIABLE  3  IS AT ELEMENT       1  NODE=         1
   ITEM= F    COMP= Y     NAME= FY

VARIABLE  4  IS AT ELEMENT       1  NODE=         1
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   ITEM= M    COMP= X     NAME= MX

VARIABLE  5  IS AT ELEMENT       1  NODE=         1
   ITEM= M    COMP= Y     NAME= MY

VARIABLE  6  IS AT ELEMENT       8  NODE=         6
   ITEM= F    COMP= X     NAME= FX

VARIABLE  7  IS AT ELEMENT       8  NODE=         6
   ITEM= M    COMP= Z     NAME= MZ

VARIABLE  8  IS AT ELEMENT      12  NODE=        10
   ITEM= F    COMP= X     NAME= FX

VARIABLE  9  IS AT ELEMENT      12  NODE=        10
   ITEM= F    COMP= Z     NAME= FZ

VARIABLE 10  IS AT ELEMENT      12  NODE=        10
   ITEM= M    COMP= X     NAME= MX

VARIABLE 11  IS AT ELEMENT      12  NODE=        10
   ITEM= M    COMP= Z     NAME= MZ

VARIABLE 12  IS AT ELEMENT      22  NODE=        15
   ITEM= F    COMP= Z     NAME= FZ

VARIABLE 13  IS AT ELEMENT      22  NODE=        15
   ITEM= M    COMP= Z     NAME= MZ

VARIABLE 14  IS AT ELEMENT      32  NODE=        23
   ITEM= M    COMP= X     NAME= MX

VARIABLE 15  IS AT ELEMENT      32  NODE=        23
   ITEM= M    COMP= Z     NAME= MZ

VARIABLE 16  IS AT ELEMENT      48  NODE=        35
   ITEM= F    COMP= Y     NAME= FY

VARIABLE 17  IS AT ELEMENT      52  NODE=        39
   ITEM= F    COMP= X     NAME= FX

VARIABLE 18  IS AT ELEMENT      52  NODE=        39
   ITEM= M    COMP= Y     NAME= MY

VARIABLE 19  IS AT ELEMENT      58  NODE=        45
   ITEM= F    COMP= Z     NAME= FZ

VARIABLE 20  IS AT ELEMENT      58  NODE=        45
   ITEM= M    COMP= Z     NAME= MZ

VARIABLE 21  IS AT ELEMENT      71  NODE=        56
   ITEM= F    COMP= X     NAME= FX

VARIABLE 22  IS AT ELEMENT      86  NODE=        72
   ITEM= F    COMP= X     NAME= FX

VARIABLE 23  IS AT ELEMENT     107  NODE=        93
   ITEM= M    COMP= X     NAME= MX

VARIABLE 24  IS AT ELEMENT     114  NODE=       102
   ITEM= F    COMP= X     NAME= FX

VARIABLE 25  IS AT ELEMENT     114  NODE=       102
   ITEM= F    COMP= Z     NAME= FZ

VARIABLE 26  IS AT ELEMENT     117  NODE=       103
   ITEM= F    COMP= X     NAME= FX

VARIABLE 27  IS AT ELEMENT     123  NODE=       112
   ITEM= M    COMP= Y     NAME= MY

VARIABLE 28  IS AT ELEMENT     125  NODE=       101
   ITEM= F    COMP= X     NAME= FX

VARIABLE 29  IS AT ELEMENT     125  NODE=       101
   ITEM= M    COMP= Y     NAME= MY

VARIABLE 30  IS AT ELEMENT     139  NODE=        65
   ITEM= F    COMP= X     NAME= FX

STORAGE COMPLETE FOR      99 DATA POINTS

        SUMMARY OF VARIABLES STORED THIS STEP AND EXTREME VALUES
VARI TYPE    IDENTIFIERS     NAME   MINIMUM     AT TIME     MAXIMUM     AT TIME

  2 ESOL     1 F    X        FX     -0.4578E-01  8.040     0.3453E-01  8.180
  3 ESOL     1 F    Y        FY     -0.1351E-01  8.500     0.1730E-01  8.860
  4 ESOL     1 M    X        MX     -0.7877E-01  8.500     0.7725E-01  8.860
  5 ESOL     1 M    Y        MY     -0.9392E-01  8.240     0.5760E-01  8.580
  6 ESOL     8 F    X        FX     -0.4198E-01  8.040     0.3155E-01  8.180
  7 ESOL     8 M    Z        MZ     -0.5466E-01  8.180     0.5800E-01  8.560
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  8 ESOL    12 F    X     FX        -0.6101E-01  8.560     0.6159E-01  9.020
  9 ESOL    12 F    Z     FZ        -0.4176E-01  8.180     0.4217E-01  8.500
 10 ESOL    12 M    X     MX        -0.3706      8.500     0.3546      8.880
 11 ESOL    12 M    Z     MZ        -0.2295      9.020     0.2745      8.040
 12 ESOL    22 F    Z     FZ        -0.6088E-01  8.160     0.6122E-01  8.520
 13 ESOL    22 M    Z     MZ        -0.2627      8.180     0.2976      8.560
 14 ESOL    32 M    X     MX        -0.2140      8.520     0.2282      8.160
 15 ESOL    32 M    Z     MZ        -0.4033      8.300     0.3378      8.140
 16 ESOL    48 F    Y     FY        -0.1022      8.180     0.1052      8.500
 17 ESOL    52 F    X     FX        -0.8510E-01  8.040     0.8179E-01  8.440
 18 ESOL    52 M    Y     MY        -0.6495      8.440     0.7195      8.040
 19 ESOL    58 F    Z     FZ        -0.4397E-01  8.520     0.4769E-01  8.140
 20 ESOL    58 M    Z     MZ        -0.1096      8.160     0.7476E-01  8.320
 21 ESOL    71 F    X     FX        -0.1755      8.100     0.1476      8.480
 22 ESOL    86 F    X     FX        -0.1051      8.100     0.1119      8.140
 23 ESOL   107 M    X     MX        -0.3324E-01  8.440     0.3544E-01  8.040
 24 ESOL   114 F    X     FX        -0.4784E-01  8.140     0.4663E-01  8.100
 25 ESOL   114 F    Z     FZ        -0.3049E-01  8.440     0.3496E-01  8.040
 26 ESOL   117 F    X     FX        -0.1309E-01  8.060     0.1120E-01  8.440
 27 ESOL   123 M    Y     MY        -0.3093E-02  8.040     0.3286E-02  8.460
 28 ESOL   125 F    X     FX        -0.2286E-01  8.060     0.2121E-01  8.100
 29 ESOL   125 M    Y     MY        -0.2611E-01  8.060     0.2401E-01  8.100
 30 ESOL   139 F    X     FX        -0.5012E-01  8.100     0.6288E-01  8.140

          POST26 SUMMARY OF VARIABLE EXTREME VALUES
VARI TYPE     IDENTIFIERS    NAME      MINIMUM     AT TIME     MAXIMUM    AT TIME

  2 ESOL      1 F    X     FX        -0.4578E-01  8.040     0.3453E-01  8.180
  3 ESOL      1 F    Y     FY        -0.1351E-01  8.500     0.1730E-01  8.860
  4 ESOL      1 M    X     MX        -0.7677E-01  8.500     0.7725E-01  8.860
  5 ESOL      1 M    Y     MY        -0.9192E-01  8.240     0.5760E-01  8.580
  6 ESOL      8 F    X     FX        -0.4188E-01  8.040     0.3155E-01  8.180
  7 ESOL      8 M    Z     MZ        -0.5466E-01  8.180     0.5800E-01  8.560
  8 ESOL     12 F    X     FX        -0.6101E-01  8.560     0.6159E-01  9.020
  9 ESOL     12 F    Z     FZ        -0.4176E-01  8.180     0.4217E-01  8.500
 10 ESOL     12 M    X     MX        -0.3706      8.500     0.3546      8.880
 11 ESOL     12 M    Z     MZ        -0.2295      9.020     0.2745      8.040
 12 ESOL     22 F    Z     FZ        -0.6088E-01  8.160     0.6122E-01  8.520
 13 ESOL     22 M    Z     MZ        -0.2627      8.180     0.2976      8.560
 14 ESOL     32 M    X     MX        -0.2140      8.520     0.2282      8.160
 15 ESOL     32 M    Z     MZ        -0.4033      8.300     0.3378      8.140
 16 ESOL     48 F    Y     FY        -0.1022      8.180     0.1052      8.500
 17 ESOL     52 F    X     FX        -0.8510E-01  8.040     0.8179E-01  8.440
 18 ESOL     52 M    Y     MY        -0.6495      8.440     0.7195      8.040
 19 ESOL     58 F    Z     FZ        -0.4397E-01  8.520     0.4769E-01  8.140
 20 ESOL     58 M    Z     MZ        -0.1096      8.160     0.7476E-01  8.320
 21 ESOL     71 F    X     FX        -0.1755      8.100     0.1476      8.480
 22 ESOL     86 F    X     FX        -0.1051      8.100     0.1119      8.140
 23 ESOL    107 M    X     MX        -0.3324E-01  8.440     0.3544E-01  8.040
 24 ESOL    114 F    X     FX        -0.4784E-01  8.140     0.4663E-01  8.100
 25 ESOL    114 F    Z     FZ        -0.3049E-01  8.440     0.3496E-01  8.040
 26 ESOL    117 F    X     FX        -0.1309E-01  8.060     0.1120E-01  8.440
 27 ESOL    123 M    Y     MY        -0.3093E-02  8.040     0.3286E-02  8.460
 28 ESOL    125 F    X     FX        -0.2286E-01  8.060     0.2121E-01  8.100
 29 ESOL    125 M    Y     MY        -0.2611E-01  8.060     0.2401E-01  8.100
 30 ESOL    139 F    X     FX        -0.5012E-01  8.100     0.6288E-01  8.140

 ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2ecx.db
  FOR POSSIBLE RESUME FROM THIS POINT


 ***** ROUTINE COMPLETED *****  CP =      18250.890



 *****  ANSYS SOLUTION ROUTINE  *****


 PERFORM AN EXPANSION PASS


 EXPAND   100 SOLUTIONS
   IN THE RANGE FROM  0.50000      TO  0.60000
   CALCULATE ELEMENT RESULTS AS WELL AS THE NODAL DOF SOLUTION

 PRINT BASI ITEMS WITH A FREQUENCY OF NONE
   FOR ALL APPLICABLE ENTITIES

 *****  ANSYS SOLVE    COMMAND  *****
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
 40416-2          VERSION=SUN4SPARC     04:31:44  OCT 10, 1995 CP=  18250.931
 FOR SUPPORT CALL                  PHONE                    FAX

  Time-history analysis of coupled system (presurizer spray line)

 **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**

                    S O L U T I O N   O P T I O N S
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 PROBLEM DIMENSIONALITY. . . . . .3-D
 DEGREES OF FREEDOM. . . . . UX   UY   UZ   ROTX ROTY ROTZ
 ANALYSIS TYPE . . . . . .TRANSIENT
    SOLUTION METHOD. . . . . .REDUCED
    EXPANSION PASS . . . . . .ON

                    L O A D   S T E P   O P T I O N S

 LOAD STEP NUMBER. . . . . 1
 NUMBER OF SOLUTIONS TO BE EXPANDED. . . . . 100
    RANGE. . . . . 0.50000     TO  0.60000
 ELEMENT RESULTS CALCULATION . . . . . ON
 PRINT OUTPUT CONTROLS
    ITEM      FREQUENCY    COMPONENT
    BASI      NONE
 DATABASE OUTPUT CONTROLS
    ITEM      FREQUENCY    COMPONENT
    NSOL      LAST


  *** ELEMENT RESULT CALCULATION TIMES
 TYPE  NUMBER    ENAME      TOTAL CP  AVE CP

    1     120  PIPE16         0.531     0.004
    2      22  PIPE16         0.162     0.007
    3      10  COMBIN14       0.010     0.001
    4      12  COMBIN14       0.020     0.002
    5      11  COMBIN14       0.020     0.002
    6       3  COMBIN14       0.000     0.000
    7       3  COMBIN14       0.000     0.000
    8       3  COMBIN14       0.000     0.000
   30      31  MASS21         0.020     0.001
   71      12  BEAM4          0.049     0.004
   72       5  MASS21         0.012     0.002

  *** NODAL LOAD CALCULATION TIMES
 TYPE  NUMBER    ENAME      TOTAL CP  AVE CP

    1     120  PIPE16         0.100     0.001
    2      22  PIPE18         0.010     0.000
    3      10  COMBIN14       0.020     0.002
    4      12  COMBIN14       0.000     0.000
    5      11  COMBIN14       0.000     0.000
    6       3  COMBIN14       0.000     0.000
    7       3  COMBIN14       0.000     0.000
    8       3  COMBIN14       0.000     0.000
   30      31  MASS21         0.021     0.001
   71      12  BEAM4          0.010     0.001
   72       5  MASS21         0.000     0.000


 *** ANSYS BINARY FILE STATISTICS
  BUFFER SIZE USED=  4096
       33.406 MB WRITTEN ON RESULTS FILE: pb2ecx.rst

 ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2ecx.db
  FOR POSSIBLE RESUME FROM THIS POINT

 FINISH SOLUTION PROCESSING


 ***** ROUTINE COMPLETED *****  CP =      18466.929


1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
 40416-2          VERSION=SUN4SPARC     04:39:20  OCT 10, 1995 CP=  18466.951
 FOR SUPPORT CALL                  PHONE                    FAX

  Time-history analysis of coupled system (presurizer spray line)

 **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


         ***** TIME-HISTORY POSTPROCESSOR (POST26) *****

 ALL POST26 SPECIFICATIONS ARE RESET TO INITIAL DEFAULTS

 MAXIMUM NUMBER OF VARIABLES= 30

 VARIABLE  2  IS AT ELEMENT       1  NODE=        1
    ITEM= F    COMP= X      NAME= FX

 VARIABLE  3  IS AT ELEMENT       1  NODE=        1
    ITEM= F    COMP= Y      NAME= FY

 VARIABLE  4  IS AT ELEMENT       1  NODE=        1
    ITEM= M    COMP= X      NAME= MX

 VARIABLE  5  IS AT ELEMENT       1  NODE=        1
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   ITEM= M    COMP= Y     NAME= MY

VARIABLE  6  IS AT ELEMENT       8  NODE=        6
   ITEM= F    COMP= X     NAME= FX

VARIABLE  7  IS AT ELEMENT       8  NODE=        6
   ITEM= M    COMP= Z     NAME= MZ

VARIABLE  8  IS AT ELEMENT      12  NODE=       10
   ITEM= F    COMP= X     NAME= FX

VARIABLE  9  IS AT ELEMENT      12  NODE=       10
   ITEM= F    COMP= Z     NAME= FZ

VARIABLE 10  IS AT ELEMENT      12  NODE=       10
   ITEM= M    COMP= X     NAME= MX

VARIABLE 11  IS AT ELEMENT      12  NODE=       10
   ITEM= M    COMP= Z     NAME= MZ

VARIABLE 12  IS AT ELEMENT      22  NODE=       15
   ITEM= F    COMP= Z     NAME= FZ

VARIABLE 13  IS AT ELEMENT      22  NODE=       15
   ITEM= M    COMP= Z     NAME= MZ

VARIABLE 14  IS AT ELEMENT      32  NODE=       23
   ITEM= M    COMP= X     NAME= MX

VARIABLE 15  IS AT ELEMENT      32  NODE=       23
   ITEM= M    COMP= Z     NAME= MZ

VARIABLE 16  IS AT ELEMENT      48  NODE=       35
   ITEM= F    COMP= Y     NAME= FY

VARIABLE 17  IS AT ELEMENT      52  NODE=       39
   ITEM= F    COMP= X     NAME= FX

VARIABLE 18  IS AT ELEMENT      52  NODE=       39
   ITEM= M    COMP= Y     NAME= MY

VARIABLE 19  IS AT ELEMENT      58  NODE=       45
   ITEM= F    COMP= Z     NAME= FZ

VARIABLE 20  IS AT ELEMENT      58  NODE=       45
   ITEM= M    COMP= Z     NAME= MZ

VARIABLE 21  IS AT ELEMENT      71  NODE=       56
   ITEM= F    COMP= X     NAME= FX

VARIABLE 22  IS AT ELEMENT      86  NODE=       72
   ITEM= F    COMP= X     NAME= FX

VARIABLE 23  IS AT ELEMENT     107  NODE=       93
   ITEM= M    COMP= X     NAME= MX

VARIABLE 24  IS AT ELEMENT     114  NODE=      102
   ITEM= F    COMP= X     NAME= FX

VARIABLE 25  IS AT ELEMENT     114  NODE=      102
   ITEM= F    COMP= Z     NAME= FZ

VARIABLE 26  IS AT ELEMENT     117  NODE=      103
   ITEM= F    COMP= X     NAME= FX

VARIABLE 27  IS AT ELEMENT     123  NODE=      112
   ITEM= M    COMP= Y     NAME= MY

VARIABLE 28  IS AT ELEMENT     125  NODE=      101
   ITEM= F    COMP= X     NAME= FX

VARIABLE 29  IS AT ELEMENT     125  NODE=      101
   ITEM= M    COMP= Y     NAME= MY

VARIABLE 30  IS AT ELEMENT     139  NODE=       65
   ITEM= F    COMP= X     NAME= FX

 STORAGE COMPLETE FOR    100 DATA POINTS

        SUMMARY OF VARIABLES STORED THIS STEP AND EXTREME VALUES
VARI TYPE     IDENTIFIERS     NAME    MINIMUM     AT TIME     MAXIMUM     AT TIME

  2 ESOL      1 F    X        FX      -0.5766E-01  11.34      0.6176E-01  11.48
  3 ESOL      1 F    Y        FY      -0.1082E-01  10.72      0.1568E-01  11.66
  4 ESOL      1 M    X        MX      -0.3973E-01  11.42      0.4418E-01  11.04
  5 ESOL      1 M    Y        MY      -0.1431      11.06      0.1115      11.48
  6 ESOL      8 F    X        FX      -0.5577E-01  11.60      0.5776E-01  11.46
  7 ESOL      8 M    Z        MZ      -0.5591E-01  11.76      0.6284E-01  11.34
  8 ESOL     12 F    X        FX      -0.9867E-01  11.60      0.9125E-01  11.44
  9 ESOL     12 F    Z        FZ      -0.2772E-01  11.10      0.2599E-01  11.42
 10 ESOL     12 M    X        MX      -0.2069      12.00      0.2336      11.06
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 11 ESOL     12 M    Z        MZ      -0.4000      11.46      0.3898      11.60
 12 ESOL     22 F    Z        FZ      -0.3692E-01  11.00      0.3652E-01  11.32
 13 ESOL     22 M    Z        MZ      -0.3102      11.76      0.3638      11.32
 14 ESOL     32 M    X        MX      -0.1117      11.34      0.1282      11.06
 15 ESOL     32 M    Z        MZ      -0.3360      11.88      0.3963      11.44
 16 ESOL     48 F    Y        FY      -0.7502E-01  11.10      0.6829E-01  11.98
 17 ESOL     52 F    X        FX      -0.5622E-01  11.84      0.8107E-01  12.02
 18 ESOL     52 M    Y        MY      -0.5936      12.00      0.4356      10.30
 19 ESOL     58 F    Z        FZ      -0.3269E-01  11.30      0.4751E-01  11.68
 20 ESOL     58 M    Z        MZ      -0.8634E-01  12.02      0.1123      11.86
 21 ESOL     71 F    X        FX      -0.2270      11.54      0.1887      11.08
 22 ESOL     86 F    X        FX      -0.1800      11.22      0.1698      11.08
 23 ESOL    107 M    X        MX      -0.4094E-01  12.02      0.3225E-01  11.84
 24 ESOL    114 F    X        FX      -0.8603E-01  11.08      0.7587E-01  11.54
 25 ESOL    114 F    Z        FZ      -0.3230E-01  12.02      0.2291E-01  11.84
 26 ESOL    117 F    X        FX      -0.1228E-01  11.58      0.1412E-01  11.22
 27 ESOL    123 M    Y        MY      -0.2733E-02  11.84      0.3277E-02  12.02
 28 ESOL    125 F    X        FX      -0.3396E-01  11.08      0.4004E-01  11.22
 29 ESOL    125 M    Y        MY      -0.3994E-01  11.08      0.4343E-01  11.22
 30 ESOL    139 F    X        FX      -0.9413E-01  11.22      0.1131      11.08

        POST26 SUMMARY OF VARIABLE EXTREME VALUES
VARI TYPE     IDENTIFIERS     NAME    MINIMUM     AT TIME     MAXIMUM     AT TIME

  2 ESOL      1 F    X        FX      -0.5766E-01  11.34      0.6176E-01  11.48
  3 ESOL      1 F    Y        FY      -0.1082E-01  10.72      0.1568E-01  11.66
  4 ESOL      1 M    X        MX      -0.3973E-01  11.42      0.4418E-01  11.04
  5 ESOL      1 M    Y        MY      -0.1431      11.06      0.1115      11.48
  6 ESOL      8 F    X        FX      -0.5577E-01  11.60      0.5776E-01  11.46
  7 ESOL      8 M    Z        MZ      -0.5591E-01  11.76      0.6284E-01  11.34
  8 ESOL     12 F    X        FX      -0.9867E-01  11.60      0.9125E-01  11.44
  9 ESOL     12 F    Z        FZ      -0.2772E-01  11.10      0.2599E-01  11.42
 10 ESOL     12 M    X        MX      -0.2069      12.00      0.2336      11.06
 11 ESOL     12 M    Z        MZ      -0.4000      11.46      0.3898      11.60
 12 ESOL     22 F    Z        FZ      -0.3692E-01  11.00      0.3652E-01  11.32
 13 ESOL     22 M    Z        MZ      -0.3102      11.76      0.3638      11.32
 14 ESOL     32 M    X        MX      -0.1117      11.34      0.1282      11.06
 15 ESOL     32 M    Z        MZ      -0.3360      11.88      0.3963      11.44
 16 ESOL     48 F    Y        FY      -0.7502E-01  11.10      0.6829E-01  11.98
 17 ESOL     52 F    X        FX      -0.5622E-01  11.84      0.8107E-01  12.02
 18 ESOL     52 M    Y        MY      -0.5936      12.00      0.4356      10.30
 19 ESOL     58 F    Z        FZ      -0.3269E-01  11.30      0.4751E-01  11.68
 20 ESOL     58 M    Z        MZ      -0.8634E-01  12.02      0.1123      11.86
 21 ESOL     71 F    X        FX      -0.2270      11.54      0.1887      11.08
 22 ESOL     86 F    X        FX      -0.1800      11.22      0.1698      11.08
 23 ESOL    107 M    X        MX      -0.4094E-01  12.02      0.3225E-01  11.84
 24 ESOL    114 F    X        FX      -0.8603E-01  11.08      0.7587E-01  11.54
 25 ESOL    114 F    Z        FZ      -0.3230E-01  12.02      0.2291E-01  11.84
 26 ESOL    117 F    X        FX      -0.1228E-01  11.58      0.1412E-01  11.22
 27 ESOL    123 M    Y        MY      -0.2733E-02  11.84      0.3277E-02  12.02
 28 ESOL    125 F    X        FX      -0.3396E-01  11.08      0.4004E-01  11.22
 29 ESOL    125 M    Y        MY      -0.3994E-01  11.08      0.4343E-01  11.22
 30 ESOL    139 F    X        FX      -0.9413E-01  11.22      0.1131      11.08

 ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2ecx.db
  FOR POSSIBLE RESUME FROM THIS POINT

 ***** ROUTINE COMPLETED *****  CP =      18476.991



 *****  ANSYS SOLUTION ROUTINE  *****

 PERFORM AN EXPANSION PASS


 EXPAND   100 SOLUTIONS
  IN THE RANGE FROM  0.60000     TO  0.70000
  CALCULATE ELEMENT RESULTS AS WELL AS THE NODAL DOF SOLUTION

 PRINT BASI ITEMS WITH A FREQUENCY OF NONE
   FOR ALL APPLICABLE ENTITIES

 *****  ANSYS SOLVE    COMMAND  *****
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
4C416-2           VERSION=SUN4SPARC    04:39:46  OCT 10, 1995 CP=   18477.021
FOR SUPPORT CALL                  PHONE                        FAX

  Time-history analysis of coupled system (presurizer spray line)

 **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**

                    S O L U T I O N   O P T I O N S

   PROBLEM DIMENSIONALITY. . . . . . . . . . . . . .3-D
   DEGREES OF FREEDOM. . . . . . UX   UY   UZ   ROTX ROTY ROTZ
   ANALYSIS TYPE . . . . . . . . . . . . . . . . . .TRANSIENT
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     SOLUTION METHOD. . . . . .REDUCED
     EXPANSION PASS . . . . . .ON

                L O A D   S T E P   O P T I O N S

  LOAD STEP NUMBER. . . . . .  1
  NUMBER OF SOLUTIONS TO BE EXPANDED. . . . . .  100
     RANGE. . . . . .  0.60000     TO  0.70000
  ELEMENT RESULTS CALCULATION . . . . . .  ON
  PRINT OUTPUT CONTROLS
     ITEM      FREQUENCY   COMPONENT
     BASI      NONE
  DATABASE OUTPUT CONTROLS
     ITEM      FREQUENCY   COMPONENT
     NSOL      LAST


  *** ELEMENT RESULT CALCULATION TIMES
 TYPE  NUMBER    ENAME      TOTAL CP  AVE CP

    1     120  PIPE16         0.556    0.005
    2      22  PIPE18         0.184    0.008
    3      10  COMBIN14       0.010    0.001
    4      12  COMBIN14       0.012    0.001
    5      11  COMBIN14       0.010    0.001
    6       3  COMBIN14       0.000    0.000
    7       3  COMBIN14       0.000    0.000
    8       3  COMBIN14       0.000    0.000
   30      31  MASS21         0.029    0.001
   71      12  BEAM4          0.041    0.003
   72       5  MASS21         0.010    0.002

  *** NODAL LOAD CALCULATION TIMES
 TYPE  NUMBER    ENAME      TOTAL CP  AVE CP

    1     120  PIPE16         0.049    0.000
    2      22  PIPE18         0.000    0.000
    3      10  COMBIN14       0.000    0.000
    4      12  COMBIN14       0.010    0.001
    5      11  COMBIN14       0.010    0.001
    6       3  COMBIN14       0.000    0.000
    7       3  COMBIN14       0.000    0.000
    8       3  COMBIN14       0.010    0.003
   30      31  MASS21         0.061    0.002
   71      12  BEAM4          0.000    0.000
   72       5  MASS21         0.010    0.002


*** ANSYS BINARY FILE STATISTICS
 BUFFER SIZE USED=  4096
      33.078 MB WRITTEN ON RESULTS FILE: pb2ecx.rst

ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2ecx.db
 FOR POSSIBLE RESUME FROM THIS POINT

FINISH SOLUTION PROCESSING


***** ROUTINE COMPLETED *****  CP =      18690.499


1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC     04:47:21  OCT 10, 1995 CP=   18690.519
FOR SUPPORT CALL                 PHONE                        FAX

 Time-history analysis of coupled system (presurizer spray line)

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


          ***** TIME-HISTORY POSTPROCESSOR (POST26) *****

ALL POST26 SPECIFICATIONS ARE RESET TO INITIAL DEFAULTS

MAXIMUM NUMBER OF VARIABLES= 30

VARIABLE  2  IS AT ELEMENT       1  NODE=         1
   ITEM= F    COMP= X      NAME= FX

VARIABLE  3  IS AT ELEMENT       1  NODE=         1
   ITEM= F    COMP= Y      NAME= FY

VARIABLE  4  IS AT ELEMENT       1  NODE=         1
   ITEM= M    COMP= X      NAME= MX

VARIABLE  5  IS AT ELEMENT       1  NODE=         1
   ITEM= M    COMP= Y      NAME= MY

VARIABLE  6  IS AT ELEMENT       8  NODE=         6
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   ITEM= F    COMP= X      NAME= FX

VARIABLE  7  IS AT ELEMENT       8  NODE=         6
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE  8  IS AT ELEMENT      12  NODE=        10
   ITEM= F    COMP= X      NAME= FX

VARIABLE  9  IS AT ELEMENT      12  NODE=        10
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 10  IS AT ELEMENT      12  NODE=        10
   ITEM= M    COMP= X      NAME= MX

VARIABLE 11  IS AT ELEMENT      12  NODE=        10
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE 12  IS AT ELEMENT      22  NODE=        15
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 13  IS AT ELEMENT      22  NODE=        15
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE 14  IS AT ELEMENT      32  NODE=        23
   ITEM= M    COMP= X      NAME= MX

VARIABLE 15  IS AT ELEMENT      32  NODE=        23
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE 16  IS AT ELEMENT      48  NODE=        35
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 17  IS AT ELEMENT      52  NODE=        39
   ITEM= F    COMP= X      NAME= FX

VARIABLE 18  IS AT ELEMENT      52  NODE=        39
   ITEM= M    COMP= Y      NAME= MY

VARIABLE 19  IS AT ELEMENT      58  NODE=        45
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 20  IS AT ELEMENT      58  NODE=        45
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE 21  IS AT ELEMENT      71  NODE=        56
   ITEM= F    COMP= X      NAME= FX

VARIABLE 22  IS AT ELEMENT      86  NODE=        72
   ITEM= F    COMP= X      NAME= FX

VARIABLE 23  IS AT ELEMENT     107  NODE=        93
   ITEM= M    COMP= X      NAME= MX

VARIABLE 24  IS AT ELEMENT     114  NODE=       102
   ITEM= F    COMP= X      NAME= FX

VARIABLE 25  IS AT ELEMENT     114  NODE=       102
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 26  IS AT ELEMENT     117  NODE=       103
   ITEM= F    COMP= X      NAME= FX

VARIABLE 27  IS AT ELEMENT     123  NODE=       112
   ITEM= M    COMP= Y      NAME= MY

VARIABLE 28  IS AT ELEMENT     125  NODE=       101
   ITEM= F    COMP= X      NAME= FX

VARIABLE 29  IS AT ELEMENT     125  NODE=       101
   ITEM= M    COMP= Y      NAME= MY

VARIABLE 30  IS AT ELEMENT     139  NODE=        65
   ITEM= F    COMP= X      NAME= FX

STORAGE COMPLETE FOR     99 DATA POINTS

        SUMMARY OF VARIABLES STORED THIS STEP AND EXTREME VALUES
VARI TYPE     IDENTIFIERS      NAME   MINIMUM     AT TIME     MAXIMUM     AT TIME

  2 ESOL     1 F    X      FX       -0.7447E-01  12.70     0.7640E-01  12.54
  3 ESOL     1 F    Y      FY       -0.9595E-02  12.84     0.1472E-01  13.80
  4 ESOL     1 M    X      MX       -0.[illegible]E-01  14.00     0.3577E-01  12.40
  5 ESOL     1 M    Y      MY       -0.1463     [illegible].94     0.9717E-01  12.84
  6 ESOL     8 F    X      FX       -0.6964E-01  12.70     0.7215E-01  12.54
  7 ESOL     8 M    Z      MZ       -0.7209E-01  12.54     0.7603E-01  12.70
  8 ESOL    12 F    X      FX       -0.1061      12.68     0.1119      12.54
  9 ESOL    12 F    Z      FZ       -0.1985E-01  12.40     0.2169E-01  12.06
 10 ESOL    12 M    X      MX       -0.1902      12.04     0.1721      12.40
 11 ESOL    12 M    Z      MZ       -0.4797      12.54     0.4464      12.70
 12 ESOL    22 F    Z      FZ       -0.2200E-01  12.34     0.2931E-01  12.04
 13 ESOL    22 M    Z      MZ       -0.4230      12.54     0.4280      12.70
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  14 ESOL     32 M     X     MX        -0.6425E-01  14.00      0.1087       12.36
  15 ESOL     32 M     Z     MZ        -0.4752      13.80      0.3840       12.80
  16 ESOL     48 F     Y     FY        -0.4334E-01  12.48      0.5645E-01   12.68
  17 ESOL     52 F     X     FX        -0.7055E-01  13.56      0.9726E-01   13.86
  18 ESOL     52 M     Y     MY        -0.7482      13.88      0.5617       13.56
  19 ESOL     58 F     Z     FZ        -0.2539E-01  12.08      0.2071E-01   12.36
  20 ESOL     58 M     Z     MZ        -0.9185E-01  13.40      0.1064       12.14
  21 ESOL     71 F     X     FX        -0.9265E-01  12.98      0.1522       13.90
  22 ESOL     86 F     X     FX        -0.9516E-01  13.86      0.8125E-01   14.00
  23 ESOL    107 M     X     MX        -0.3902E-01  13.84      0.3469E-01   13.58
  24 ESOL    114 F     X     FX        -0.4101E-01  13.90      0.3465E-01   12.50
  25 ESOL    114 F     Z     FZ        -0.3915E-01  13.88      0.2852E-01   13.56
  26 ESOL    117 F     X     FX        -0.1195E-01  12.16      0.1211E-01   12.04
  27 ESOL    123 M     Y     MY        -0.2931E-02  12.16      0.2897E-02   13.10
  28 ESOL    125 F     X     FX        -0.1713E-01  12.46      0.2080E-01   13.86
  29 ESOL    125 M     Y     MY        -0.2087E-01  12.46      0.2416E-01   12.30
  30 ESOL    139 F     X     FX        -0.6573E-01  13.86      0.5136E-01   12.46

          POST26 SUMMARY OF VARIABLE EXTREME VALUES
VARI TYPE     IDENTIFIERS     NAME      MINIMUM     AT TIME     MAXIMUM    AT TIME

  2 ESOL      1 F     X     FX        -0.7447E-01  12.70      0.7640E-01   12.54
  3 ESOL      1 F     Y     FY        -0.9595E-02  12.84      0.1472E-01   13.80
  4 ESOL      1 M     X     MX        -0.3939E-01  14.00      0.3577E-01   12.40
  5 ESOL      1 M     Y     MY        -0.1463      13.94      0.9717E-01   12.84
  6 ESOL      8 F     X     FX        -0.6964E-01  12.70      0.7215E-01   12.54
  7 ESOL      8 M     Z     MZ        -0.7209E-01  12.54      0.7603E-01   12.70
  8 ESOL     12 F     X     FX        -0.1061      12.68      0.1119       12.54
  9 ESOL     12 F     Z     FZ        -0.1985E-01  12.40      0.2169E-01   12.06
 10 ESOL     12 M     X     MX        -0.1902      12.04      0.1721       12.40
 11 ESOL     12 M     Z     MZ        -0.4797      12.54      0.4464       12.70
 12 ESOL     22 F     Z     FZ        -0.2200E-01  12.34      0.2931E-01   12.04
 13 ESOL     22 M     Z     MZ        -0.4230      12.54      0.4280       12.70
 14 ESOL     32 M     X     MX        -0.8425E-01  14.00      0.1087       12.36
 15 ESOL     32 M     Z     MZ        -0.4752      13.80      0.3840       12.80
 16 ESOL     48 F     Y     FY        -0.4334E-01  12.48      0.5645E-01   12.68
 17 ESOL     52 F     X     FX        -0.7055E-01  13.56      0.9726E-01   13.86
 18 ESOL     52 M     Y     MY        -0.7482      13.88      0.5617       13.56
 19 ESOL     58 F     Z     FZ        -0.2539E-01  12.08      0.2071E-01   12.36
 20 ESOL     58 M     Z     MZ        -0.9185E-01  13.40      0.1064       12.14
 21 ESOL     71 F     X     FX        -0.9265E-01  12.98      0.1522       13.90
 22 ESOL     86 F     X     FX        -0.9516E-01  13.86      0.8125E-01   14.00
 23 ESOL    107 M     X     MX        -0.3902E-01  13.84      0.3469E-01   13.58
 24 ESOL    114 F     X     FX        -0.4101E-01  13.90      0.3465E-01   12.50
 25 ESOL    114 F     Z     FZ        -0.3915E-01  13.88      0.2852E-01   13.56
 26 ESOL    117 F     X     FX        -0.1195E-01  12.16      0.1211E-01   12.04
 27 ESOL    123 M     Y     MY        -0.2931E-02  12.16      0.2897E-02   13.10
 28 ESOL    125 F     X     FX        -0.1713E-01  12.46      0.2080E-01   13.86
 29 ESOL    125 M     Y     MY        -0.2087E-01  12.46      0.2416E-01   12.30
 30 ESOL    139 F     X     FX        -0.6573E-01  13.86      0.5136E-01   12.46

ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2ecx.db
 FOR POSSIBLE RESUME FROM THIS POINT

***** ROUTINE COMPLETED *****  CP =      18700.471


*****  ANSYS SOLUTION ROUTINE  *****

PERFORM AN EXPANSION PASS

EXPAND   100 SOLUTIONS
  IN THE RANGE FROM  0.70000      TO  0.80000
 CALCULATE ELEMENT RESULTS AS WELL AS THE NODAL DOF SOLUTION

PRINT BASI ITEMS WITH A FREQUENCY OF NONE
  FOR ALL APPLICABLE ENTITIES

*****  ANSYS SOLVE    COMMAND  *****
1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC     04:47:48  OCT 10, 1995 CP=  18700.491
FOR SUPPORT CALL                  PHONE                      FAX

 Time-history analysis of coupled system (presurizer spray line)

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**

                    S O L U T I O N   O P T I O N S

  PROBLEM DIMENSIONALITY. . . . . .3-D
  DEGREES OF FREEDOM. . . . . UX   UY   UZ   ROTX ROTY ROTZ
  ANALYSIS TYPE . . . . . .TRANSIENT
     SOLUTION METHOD. . . . . .REDUCED
     EXPANSION PASS . . . . . .ON
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                    L O A D   S T E P   O P T I O N S

  LOAD STEP NUMBER. . . . . 1
  NUMBER OF SOLUTIONS TO BE EXPANDED. . . . . 100
     RANGE. . . . . 0.70000     TO  0.80000
  ELEMENT RESULTS CALCULATION . . . . . ON
  PRINT OUTPUT CONTROLS
     ITEM      FREQUENCY    COMPONENT
     BASI        NONE
  DATABASE OUTPUT CONTROLS
     ITEM      FREQUENCY    COMPONENT
     NSOL        LAST


  *** ELEMENT RESULT CALCULATION TIMES
 TYPE  NUMBER    ENAME       TOTAL CP  AVE CP

    1      120  PIPE16         0.498     0.004
    2       22  PIPE18         0.180     0.008
    3       10  COMBIN14       0.000     0.000
    4       12  COMBIN14       0.020     0.002
    5       11  COMBIN14       0.010     0.001
    6        3  COMBIN14       0.000     0.000
    7        3  COMBIN14       0.000     0.000
    8        3  COMBIN14       0.000     0.000
   30       31  MASS21         0.051     0.002
   71       12  BEAM4          0.049     0.004
   72        5  MASS21         0.010     0.002

  *** NODAL LOAD CALCULATION TIMES
 TYPE  NUMBER    ENAME       TOTAL CP  AVE CP

    1      120  PIPE16         0.123     0.001
    2       22  PIPE18         0.029     0.001
    3       10  COMBIN14       0.000     0.000
    4       12  COMBIN14       0.000     0.000
    5       11  COMBIN14       0.000     0.000
    6        3  COMBIN14       0.000     0.000
    7        3  COMBIN14       0.000     0.000
    8        3  COMBIN14       0.000     0.000
   30       31  MASS21         0.020     0.001
   71       12  BEAM4          0.010     0.001
   72        5  MASS21         0.000     0.000


*** ANSYS BINARY FILE STATISTICS
 BUFFER SIZE USED=  4096
      33.078 MB WRITTEN ON RESULTS FILE: pb2ecx.rst

ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2ecx.db
 FOR POSSIBLE RESUME FROM THIS POINT

FINISH SOLUTION PROCESSING


***** ROUTINE COMPLETED *****  CP =      18913.291


1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC     04:55:19  OCT 10, 1995 CP=  18913.311
FOR SUPPORT CALL                  PHONE                      FAX

 Time-history analysis of coupled system (presurizer spray line)

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


          ***** TIME-HISTORY POSTPROCESSOR (POST26) *****

ALL POST26 SPECIFICATIONS ARE RESET TO INITIAL DEFAULTS

MAXIMUM NUMBER OF VARIABLES= 30

VARIABLE  2  IS AT ELEMENT       1  NODE=        1
   ITEM= F    COMP= X      NAME= FX

VARIABLE  3  IS AT ELEMENT       1  NODE=        1
   ITEM= F    COMP= Y      NAME= FY

VARIABLE  4  IS AT ELEMENT       1  NODE=        1
   ITEM= M    COMP= X      NAME= MX

VARIABLE  5  IS AT ELEMENT       1  NODE=        1
   ITEM= M    COMP= Y      NAME= MY

VARIABLE  6  IS AT ELEMENT       8  NODE=        6
   ITEM= F    COMP= X      NAME= FX

VARIABLE  7  IS AT ELEMENT       8  NODE=        6
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   ITEM= M    COMP= Z     NAME= MZ

VARIABLE  8  IS AT ELEMENT      12  NODE=       10
   ITEM= P    COMP= X     NAME= PX

VARIABLE  9  IS AT ELEMENT      12  NODE=       10
   ITEM= P    COMP= Z     NAME= PZ

VARIABLE 10  IS AT ELEMENT      12  NODE=       10
   ITEM= M    COMP= X     NAME= MX

VARIABLE 11  IS AT ELEMENT      12  NODE=       10
   ITEM= M    COMP= Z     NAME= MZ

VARIABLE 12  IS AT ELEMENT      22  NODE=       15
   ITEM= P    COMP= Z     NAME= PZ

VARIABLE 13  IS AT ELEMENT      22  NODE=       15
   ITEM= M    COMP= Z     NAME= MZ

VARIABLE 14  IS AT ELEMENT      32  NODE=       23
   ITEM= M    COMP= X     NAME= MX

VARIABLE 15  IS AT ELEMENT      32  NODE=       23
   ITEM= M    COMP= Z     NAME= MZ

VARIABLE 16  IS AT ELEMENT      48  NODE=       35
   ITEM= P    COMP= Y     NAME= PY

VARIABLE 17  IS AT ELEMENT      52  NODE=       39
   ITEM= P    COMP= X     NAME= PX

VARIABLE 18  IS AT ELEMENT      52  NODE=       39
   ITEM= M    COMP= Y     NAME= MY

VARIABLE 19  IS AT ELEMENT      58  NODE=       45
   ITEM= P    COMP= Z     NAME= PZ

VARIABLE 20  IS AT ELEMENT      58  NODE=       45
   ITEM= M    COMP= Z     NAME= MZ

VARIABLE 21  IS AT ELEMENT      71  NODE=       56
   ITEM= P    COMP= X     NAME= PX

VARIABLE 22  IS AT ELEMENT      86  NODE=       72
   ITEM= P    COMP= X     NAME= PX

VARIABLE 23  IS AT ELEMENT     107  NODE=       93
   ITEM= M    COMP= X     NAME= MX

VARIABLE 24  IS AT ELEMENT     114  NODE=      102
   ITEM= P    COMP= X     NAME= PX

VARIABLE 25  IS AT ELEMENT     114  NODE=      102
   ITEM= P    COMP= Z     NAME= PZ

VARIABLE 26  IS AT ELEMENT     117  NODE=      103
   ITEM= P    COMP= X     NAME= PX

VARIABLE 27  IS AT ELEMENT     123  NODE=      112
   ITEM= M    COMP= Y     NAME= MY

VARIABLE 28  IS AT ELEMENT     125  NODE=      101
   ITEM= P    COMP= X     NAME= PX

VARIABLE 29  IS AT ELEMENT     125  NODE=      101
   ITEM= M    COMP= Y     NAME= MY

VARIABLE 30  IS AT ELEMENT     139  NODE=       65
   ITEM= P    COMP= X     NAME= PX

 STORAGE COMPLETE FOR     99 DATA POINTS

        SUMMARY OF VARIABLES STORED THIS STEP AND EXTREME VALUES
VARI TYPE    IDENTIFIERS     NAME    MINIMUM     AT TIME     MAXIMUM     AT TIME

  2 ESOL     1 P     X      PX       -0.5673E-01  15.48      0.4829E-01  15.10
  3 ESOL     1 P     Y      PY       -0.2225E-01  15.48      0.2228E-01  15.18
  4 ESOL     1 M     X      MX       -0.1021      15.44      0.1034      15.12
  5 ESOL     1 M     Y      MY       -0.1910      14.52      0.1929      14.20
  6 ESOL     8 P     X      PX       -0.4864E-01  15.48      0.4076E-01  15.10
  7 ESOL     8 M     Z      MZ       -0.6896E-01  15.10      0.7986E-01  15.48
  8 ESOL    12 P     X      PX       -0.8703E-01  14.92      0.5554E-01  15.08
  9 ESOL    12 P     Z      PZ       -0.5810E-01  15.14      0.5814E-01  15.44
 10 ESOL    12 M     X      MX       -0.5088      15.46      0.5134      15.14
 11 ESOL    12 M     Z      MZ       -0.2077      15.08      0.3252      14.92
 12 ESOL    22 P     Z      PZ       -0.8393E-01  15.12      0.8166E-01  15.48
 13 ESOL    22 M     Z      MZ       -0.3328      15.10      0.3874      15.48
 14 ESOL    32 M     X      MX       -0.3088      15.46      0.3104      15.14
 15 ESOL    32 M     Z      MZ       -0.4163      14.64      0.5467      14.24
 16 ESOL    48 P     Y      PY       -0.1514      15.12      0.1496      15.50
```



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 17 ESOL    52 P     X      PX       -0.1244      14.32      0.1145      14.54
 18 ESOL    52 M     Y      MY       -0.9356      14.56       1.096      14.32
 19 ESOL    58 P     Z      PZ       -0.6407E-01  15.46      0.6036E-01  15.14
 20 ESOL    58 M     Z      MZ       -0.1094      14.24      0.1199      14.66
 21 ESOL    71 P     X      PX       -0.1887      14.28      0.1623      14.64
 22 ESOL    86 P     X      PX       -0.8288E-01  15.42      0.1023      15.48
 23 ESOL   107 M     X      MX       -0.5492E-01  14.54      0.5533E-01  14.32
 24 ESOL   114 P     X      PX       -0.4245E-01  14.56      0.4834E-01  14.36
 25 ESOL   114 P     Z      PZ       -0.4778E-01  14.56      0.5295E-01  14.30
 26 ESOL   117 P     X      PX       -0.1018E-01  14.32      0.1043E-01  14.52
 27 ESOL   123 M     Y      MY       -0.3342E-02  14.30      0.2531E-02  14.58
 28 ESOL   125 P     X      PX       -0.2089E-01  15.48      0.1717E-01  15.42
 29 ESOL   125 M     Y      MY       -0.2361E-01  15.48      0.2012E-01  15.42
 30 ESOL   139 P     X      PX       -0.5146E-01  15.42      0.5775E-01  15.48

        POST26 SUMMARY OF VARIABLE EXTREME VALUES
VARI TYPE    IDENTIFIERS     NAME    MINIMUM     AT TIME     MAXIMUM     AT TIME

  2 ESOL     1 P     X      PX       -0.5673E-01  15.48      0.4829E-01  15.10
  3 ESOL     1 P     Y      PY       -0.2225E-01  15.48      0.2228E-01  15.18
  4 ESOL     1 M     X      MX       -0.1021      15.44      0.1034      15.12
  5 ESOL     1 M     Y      MY       -0.1910      14.52      0.1929      14.20
  6 ESOL     8 P     X      PX       -0.4864E-01  15.48      0.4076E-01  15.10
  7 ESOL     8 M     Z      MZ       -0.6896E-01  15.10      0.7986E-01  15.48
  8 ESOL    12 P     X      PX       -0.8703E-01  14.92      0.5554E-01  15.08
  9 ESOL    12 P     Z      PZ       -0.5810E-01  15.14      0.5814E-01  15.44
 10 ESOL    12 M     X      MX       -0.5088      15.46      0.5134      15.14
 11 ESOL    12 M     Z      MZ       -0.2077      15.08      0.3252      14.92
 12 ESOL    22 P     Z      PZ       -0.8393E-01  15.12      0.8166E-01  15.48
 13 ESOL    22 M     Z      MZ       -0.3328      15.10      0.3874      15.48
 14 ESOL    32 M     X      MX       -0.3088      15.46      0.3104      15.14
 15 ESOL    32 M     Z      MZ       -0.4163      14.64      0.5467      14.24
 16 ESOL    48 P     Y      PY       -0.1514      15.12      0.1496      15.50
 17 ESOL    52 P     X      PX       -0.1244      14.32      0.1145      14.54
 18 ESOL    52 M     Y      MY       -0.9356      14.56       1.096      14.32
 19 ESOL    58 P     Z      PZ       -0.6407E-01  15.46      0.6036E-01  15.14
 20 ESOL    58 M     Z      MZ       -0.1094      14.24      0.1199      14.66
 21 ESOL    71 P     X      PX       -0.1887      14.28      0.1623      14.64
 22 ESOL    86 P     X      PX       -0.8288E-01  15.42      0.1023      15.48
 23 ESOL   107 M     X      MX       -0.5492E-01  14.54      0.5533E-01  14.32
 24 ESOL   114 P     X      PX       -0.4245E-01  14.56      0.4834E-01  14.36
 25 ESOL   114 P     Z      PZ       -0.4778E-01  14.56      0.5295E-01  14.30
 26 ESOL   117 P     X      PX       -0.1018E-01  14.32      0.1043E-01  14.52
 27 ESOL   123 M     Y      MY       -0.3342E-02  14.30      0.2531E-02  14.58
 28 ESOL   125 P     X      PX       -0.2089E-01  15.48      0.1717E-01  15.42
 29 ESOL   125 M     Y      MY       -0.2361E-01  15.48      0.2012E-01  15.42
 30 ESOL   139 P     X      PX       -0.5146E-01  15.42      0.5775E-01  15.48

 ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2ecx.db
  FOR POSSIBLE RESUME FROM THIS POINT


 ***** ROUTINE COMPLETED *****  CP =      18923.111


 *****  ANSYS SOLUTION ROUTINE  *****

 PERFORM AN EXPANSION PASS


 EXPAND   100 SOLUTIONS
  IN THE RANGE FROM  0.80000     TO  0.90000
  CALCULATE ELEMENT RESULTS AS WELL AS THE NODAL DOF SOLUTION

 PRINT BASI ITEMS WITH A FREQUENCY OF NONE
   FOR ALL APPLICABLE ENTITIES

 *****  ANSYS SOLVE    COMMAND  *****
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC     04:55:44  OCT 10, 1995 CP=   18923.141
 FOR SUPPORT CALL                  PHONE                        FAX

  Time-history analysis of coupled system (presurizer spray line)

 **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**

                    S O L U T I O N   O P T I O N S

   PROBLEM DIMENSIONALITY. . . . . . . . . . . . . . .3-D
   DEGREES OF FREEDOM. . . . . . UX   UY   UZ   ROTX ROTY ROTZ
   ANALYSIS TYPE . . . . . . . . . . . . . . . . . . .TRANSIENT
      SOLUTION METHOD. . . . . . . . . . . . . . . . .REDUCED
      EXPANSION PASS . . . . . . . . . . . . . . . . .ON

                    L O A D   S T E P   O P T I O N S

   LOAD STEP NUMBER. . . . . . . . . . . . . . . . .  1
```

```
 NUMBER OF SOLUTIONS TO BE EXPANDED. . . . . 100
   RANGE. . . . . 0.80000     TO  0.90000
 ELEMENT RESULTS CALCULATION . . . . . ON
 PRINT OUTPUT CONTROLS
    ITEM      FREQUENCY   COMPONENT
    BASI        NONE
 DATABASE OUTPUT CONTROLS
    ITEM      FREQUENCY   COMPONENT
    NSOL        LAST


  *** ELEMENT RESULT CALCULATION TIMES
 TYPE  NUMBER    ENAME      TOTAL CP  AVE CP

    1     120   PIPE16        0.558    0.005
    2      22   PIPE18        0.209    0.010
    3      10   COMBIN14      0.010    0.001
    4      12   COMBIN14      0.010    0.001
    5      11   COMBIN14      0.020    0.002
    6       3   COMBIN14      0.000    0.000
    7       3   COMBIN14      0.010    0.003
    8       3   COMBIN14      0.000    0.000
   30      31   MASS21        0.041    0.001
   71      12   BEAM4         0.040    0.003
   72       5   MASS21        0.020    0.004

  *** NODAL LOAD CALCULATION TIMES
 TYPE  NUMBER    ENAME      TOTAL CP  AVE CP

    1     120   PIPE16        0.072    0.001
    2      22   PIPE18        0.000    0.000
    3      10   COMBIN14      0.000    0.000
    4      12   COMBIN14      0.010    0.001
    5      11   COMBIN14      0.000    0.000
    6       3   COMBIN14      0.000    0.000
    7       3   COMBIN14      0.000    0.000
    8       3   COMBIN14      0.010    0.003
   30      31   MASS21        0.000    0.000
   71      12   BEAM4         0.000    0.000
   72       5   MASS21        0.000    0.000


*** ANSYS BINARY FILE STATISTICS
 BUFFER SIZE USED=  4096
      33.078 MB WRITTEN ON RESULTS FILE: pb2ecx.rst

ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2ecx.db
 FOR POSSIBLE RESUME FROM THIS POINT

FINISH SOLUTION PROCESSING


***** ROUTINE COMPLETED *****  CP =     19136.300


1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC     05:03:18  OCT 10, 1995 CP=  19136.330
FOR SUPPORT CALL                  PHONE                      FAX

 Time-history analysis of coupled system (presurizer spray line)

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


          ***** TIME-HISTORY POSTPROCESSOR (POST26) *****

ALL POST26 SPECIFICATIONS ARE RESET TO INITIAL DEFAULTS

MAXIMUM NUMBER OF VARIABLES= 30

VARIABLE  2  IS AT ELEMENT       1  NODE=         1
   ITEM= F    COMP= X     NAME= FX

VARIABLE  3  IS AT ELEMENT       1  NODE=         1
   ITEM= F    COMP= Y     NAME= FY

VARIABLE  4  IS AT ELEMENT       1  NODE=         1
   ITEM= M    COMP= X     NAME= MX

VARIABLE  5  IS AT ELEMENT       1  NODE=         1
   ITEM= M    COMP= Y     NAME= MY

VARIABLE  6  IS AT ELEMENT       8  NODE=         6
   ITEM= F    COMP= X     NAME= FX

VARIABLE  7  IS AT ELEMENT       8  NODE=         6
   ITEM= M    COMP= Z     NAME= MZ

VARIABLE  8  IS AT ELEMENT      12  NODE=        10
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   ITEM= F    COMP= X     NAME= FX

VARIABLE  9  IS AT ELEMENT      12  NODE=        10
   ITEM= F    COMP= Z     NAME= FZ

VARIABLE 10  IS AT ELEMENT      12  NODE=        10
   ITEM= M    COMP= X     NAME= MX

VARIABLE 11  IS AT ELEMENT      12  NODE=        10
   ITEM= M    COMP= Z     NAME= MZ

VARIABLE 12  IS AT ELEMENT      22  NODE=        15
   ITEM= F    COMP= Z     NAME= FZ

VARIABLE 13  IS AT ELEMENT      22  NODE=        15
   ITEM= M    COMP= Z     NAME= MZ

VARIABLE 14  IS AT ELEMENT      32  NODE=        23
   ITEM= M    COMP= X     NAME= MX

VARIABLE 15  IS AT ELEMENT      32  NODE=        23
   ITEM= M    COMP= Z     NAME= MZ

VARIABLE 16  IS AT ELEMENT      48  NODE=        35
   ITEM= F    COMP= Y     NAME= FY

VARIABLE 17  IS AT ELEMENT      52  NODE=        39
   ITEM= F    COMP= X     NAME= FX

VARIABLE 18  IS AT ELEMENT      52  NODE=        39
   ITEM= M    COMP= Y     NAME= MY

VARIABLE 19  IS AT ELEMENT      58  NODE=        45
   ITEM= F    COMP= Z     NAME= FZ

VARIABLE 20  IS AT ELEMENT      58  NODE=        45
   ITEM= M    COMP= Z     NAME= MZ

VARIABLE 21  IS AT ELEMENT      71  NODE=        56
   ITEM= F    COMP= X     NAME= FX

VARIABLE 22  IS AT ELEMENT      86  NODE=        72
   ITEM= F    COMP= X     NAME= FX

VARIABLE 23  IS AT ELEMENT     107  NODE=        93
   ITEM= M    COMP= X     NAME= MX

VARIABLE 24  IS AT ELEMENT     114  NODE=       102
   ITEM= F    COMP= X     NAME= FX

VARIABLE 25  IS AT ELEMENT     114  NODE=       102
   ITEM= F    COMP= Z     NAME= FZ

VARIABLE 26  IS AT ELEMENT     117  NODE=       103
   ITEM= F    COMP= X     NAME= FX

VARIABLE 27  IS AT ELEMENT     123  NODE=       112
   ITEM= M    COMP= Y     NAME= MY

VARIABLE 28  IS AT ELEMENT     125  NODE=       101
   ITEM= F    COMP= X     NAME= FX

VARIABLE 29  IS AT ELEMENT     125  NODE=       101
   ITEM= M    COMP= Y     NAME= MY

VARIABLE 30  IS AT ELEMENT     139  NODE=        65
   ITEM= F    COMP= X     NAME= FX

STORAGE COMPLETE FOR      99 DATA POINTS

        SUMMARY OF VARIABLES STORED THIS STEP AND EXTREME VALUES
VARI TYPE    IDENTIFIERS     NAME   MINIMUM     AT TIME     MAXIMUM     AT TIME

  2 ESOL     1 F    X        FX     -0.4538E-01  16.62     0.6018E-01  16.44
  3 ESOL     1 F    Y        FY     -0.2090E-01  16.08     0.1804E-01  16.42
  4 ESOL     1 M    X        MX     -0.8431E-01  16.14     0.6654E-01  16.44
  5 ESOL     1 M    Y        MY     -0.2464      16.40     0.2335      16.76
  6 ESOL     8 F    X        FX     -0.4055E-01  17.98     0.6047E-01  16.46
  7 ESOL     8 M    Z        MZ     -0.8787E-01  16.44     0.5963E-01  17.98
  8 ESOL    12 F    X        FX     -0.6953E-01  17.42     0.1095      16.46
  9 ESOL    12 F    Z        FZ     -0.4324E-01  16.44     0.4917E-01  16.12
 10 ESOL    12 M    X        MX     -0.4360      16.12     0.4003      16.44
 11 ESOL    12 M    Z        MZ     -0.4066      16.46     0.2601      17.40
 12 ESOL    22 F    Z        FZ     -0.5788E-01  16.48     0.6995E-01  16.14
 13 ESOL    22 M    Z        MZ     -0.4954      16.46     0.3325      17.98
 14 ESOL    32 M    X        MX     -0.2468      16.16     0.2017      16.48
 15 ESOL    32 M    Z        MZ     -0.4211      17.10     0.4669      16.72
 16 ESOL    48 F    Y        FY     -0.1217      16.46     0.1249      16.16
 17 ESOL    52 F    X        FX     -0.7631E-01  17.42     0.7517E-01  17.04
 18 ESOL    52 M    Y        MY     -0.5638      17.02     0.5763      17.42
 19 ESOL    58 F    Z        FZ     -0.5377E-01  16.12     0.4100E-01  16.46
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 20 ESOL    58 M    Z      MZ        -0.7389E-01  16.72     0.8046E-01  17.14
 21 ESOL    71 F    X      FX        -0.1232      16.78     0.1204      17.00
 22 ESOL    86 F    X      FX        -0.6977E-01  16.20     0.6391E-01  16.64
 23 ESOL   107 M    X      MX        -0.3398E-01  17.06     0.3351E-01  17.42
 24 ESOL   114 F    X      FX        -0.3595E-01  17.00     0.2936E-01  16.78
 25 ESOL   114 F    Z      FZ        -0.3104E-01  17.04     0.3070E-01  17.40
 26 ESOL   117 F    X      FX        -0.8026E-02  16.84     0.8608E-02  17.04
 27 ESOL   123 M    Y      MY        -0.2455E-02  17.44     0.2660E-02  17.00
 28 ESOL   125 F    X      FX        -0.1484E-01  16.64     0.1460E-01  16.28
 29 ESOL   125 M    Y      MY        -0.1714E-01  16.64     0.1726E-01  16.28
 30 ESOL   139 F    X      FX        -0.5344E-01  16.20     0.4337E-01  17.00

          POST26 SUMMARY OF VARIABLE EXTREME VALUES
VARI TYPE     IDENTIFIERS    NAME      MINIMUM     AT TIME     MAXIMUM    AT TIME

  2 ESOL      1 F    X      FX        -0.4538E-01  16.62     0.6018E-01  16.44
  3 ESOL      1 F    Y      FY        -0.2090E-01  16.08     0.1804E-01  16.42
  4 ESOL      1 M    X      MX        -0.8431E-01  16.14     0.6654E-01  16.44
  5 ESOL      1 M    Y      MY        -0.2464      16.60     0.2335      16.76
  6 ESOL      8 F    X      FX        -0.4055E-01  17.98     0.6047E-01  16.46
  7 ESOL      8 M    Z      MZ        -0.8787E-01  16.44     0.5963E-01  17.98
  8 ESOL     12 F    X      FX        -0.6953E-01  17.42     0.1095      16.46
  9 ESOL     12 F    Z      FZ        -0.4324E-01  16.44     0.4917E-01  16.12
 10 ESOL     12 M    X      MX        -0.4360      16.12     0.4003      16.44
 11 ESOL     12 M    Z      MZ        -0.4066      16.46     0.2601      17.40
 12 ESOL     22 F    Z      FZ        -0.5788E-01  16.48     0.6995E-01  16.14
 13 ESOL     22 M    Z      MZ        -0.4954      16.46     0.3325      17.98
 14 ESOL     32 M    X      MX        -0.2468      16.16     0.2017      16.48
 15 ESOL     32 M    Z      MZ        -0.4211      17.10     0.4669      16.72
 16 ESOL     48 F    Y      FY        -0.1217      16.46     0.1249      16.16
 17 ESOL     52 F    X      FX        -0.7631E-01  17.42     0.7517E-01  17.04
 18 ESOL     52 M    Y      MY        -0.5638      17.02     0.5763      17.42
 19 ESOL     58 F    Z      FZ        -0.5377E-01  16.12     0.4100E-01  16.46
 20 ESOL     58 M    Z      MZ        -0.7389E-01  16.72     0.8046E-01  17.14
 21 ESOL     71 F    X      FX        -0.1232      16.78     0.1204      17.00
 22 ESOL     86 F    X      FX        -0.6977E-01  16.20     0.6391E-01  16.64
 23 ESOL    107 M    X      MX        -0.3398E-01  17.06     0.3351E-01  17.42
 24 ESOL    114 F    X      FX        -0.3595E-01  17.00     0.2936E-01  16.78
 25 ESOL    114 F    Z      FZ        -0.3104E-01  17.04     0.3070E-01  17.40
 26 ESOL    117 F    X      FX        -0.8026E-02  16.84     0.8608E-02  17.04
 27 ESOL    123 M    Y      MY        -0.2455E-02  17.44     0.2660E-02  17.00
 28 ESOL    125 F    X      FX        -0.1484E-01  16.64     0.1460E-01  16.28
 29 ESOL    125 M    Y      MY        -0.1714E-01  16.64     0.1726E-01  16.28
 30 ESOL    139 F    X      FX        -0.5344E-01  16.20     0.4337E-01  17.00

ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2ecx.db
 FOR POSSIBLE RESUME FROM THIS POINT


***** ROUTINE COMPLETED *****  CP =      19146.740



*****  ANSYS SOLUTION ROUTINE  *****

PERFORM AN EXPANSION PASS


EXPAND   100 SOLUTIONS
 IN THE RANGE FROM  0.90000     TO   1.0000
 CALCULATE ELEMENT RESULTS AS WELL AS THE NODAL DOF SOLUTION

PRINT BASI ITEMS WITH A FREQUENCY OF NONE
  FOR ALL APPLICABLE ENTITIES

*****  ANSYS SOLVE    COMMAND  *****
1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC      05:03:47  OCT 10, 1995 CP=  19146.759
FOR SUPPORT CALL                  PHONE                    FAX

 Time-history analysis of coupled system (presurizer spray line)

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**

                    S O L U T I O N   O P T I O N S

  PROBLEM DIMENSIONALITY. . . . . .3-D
  DEGREES OF FREEDOM. . . . . UX   UY   UZ   ROTX ROTY ROTZ
  ANALYSIS TYPE . . . . . .TRANSIENT
     SOLUTION METHOD. . . . . .REDUCED
     EXPANSION PASS . . . . . .ON

                  L O A D   S T E P   O P T I O N S

  LOAD STEP NUMBER. . . . . 1
  NUMBER OF SOLUTIONS TO BE EXPANDED. . . . . 100
     RANGE. . . . . 0.90000     TO   1.0000
  ELEMENT RESULTS CALCULATION . . . . . ON
```



```
  PRINT OUTPUT CONTROLS
     ITEM      FREQUENCY    COMPONENT
     BASI        NONE
  DATABASE OUTPUT CONTROLS
     ITEM      FREQUENCY    COMPONENT
     NSOL        LAST


   *** ELEMENT RESULT CALCULATION TIMES
 TYPE  NUMBER    ENAME       TOTAL CP  AVE CP

    1     120  PIPE16          0.581     0.005
    2      22  PIPE18          0.160     0.007
    3      10  COMBIN14        0.020     0.002
    4      12  COMBIN14        0.023     0.002
    5      11  COMBIN14        0.010     0.001
    6       3  COMBIN14        0.000     0.000
    7       3  COMBIN14        0.010     0.003
    8       3  COMBIN14        0.000     0.000
   30      31  MASS21          0.029     0.001
   71      12  BEAM4           0.040     0.003
   72       5  MASS21          0.010     0.002

   *** NODAL LOAD CALCULATION TIMES
 TYPE  NUMBER    ENAME       TOTAL CP  AVE CP

    1     120  PIPE16          0.061     0.001
    2      22  PIPE18          0.020     0.001
    3      10  COMBIN14        0.010     0.001
    4      12  COMBIN14        0.010     0.001
    5      11  COMBIN14        0.000     0.000
    6       3  COMBIN14        0.000     0.000
    7       3  COMBIN14        0.000     0.000
    8       3  COMBIN14        0.000     0.000
   30      31  MASS21          0.020     0.001
   71      12  BEAM4           0.010     0.001
   72       5  MASS21          0.000     0.000


*** ANSYS BINARY FILE STATISTICS
 BUFFER SIZE USED=  4096
      33.406 MB WRITTEN ON RESULTS FILE: pb2ecx.rst

ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2ecx.db
 FOR POSSIBLE RESUME FROM THIS POINT

FINISH SOLUTION PROCESSING


***** ROUTINE COMPLETED *****  CP =      19361.111


1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC      05:11:24  OCT 10, 1995 CP=  19361.130
FOR SUPPORT CALL                  PHONE                    FAX

 Time-history analysis of coupled system (presurizer spray line)

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


        ***** TIME-HISTORY POSTPROCESSOR (POST26) *****

ALL POST26 SPECIFICATIONS ARE RESET TO INITIAL DEFAULTS

MAXIMUM NUMBER OF VARIABLES= 30

VARIABLE  2  IS AT ELEMENT       1  NODE=        1
   ITEM= F    COMP= X      NAME= FX

VARIABLE  3  IS AT ELEMENT       1  NODE=        1
   ITEM= F    COMP= Y      NAME= FY

VARIABLE  4  IS AT ELEMENT       1  NODE=        1
   ITEM= M    COMP= X      NAME= MX

VARIABLE  5  IS AT ELEMENT       1  NODE=        1
   ITEM= M    COMP= Y      NAME= MY

VARIABLE  6  IS AT ELEMENT       8  NODE=        6
   ITEM= F    COMP= X      NAME= FX

VARIABLE  7  IS AT ELEMENT       8  NODE=        6
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE  8  IS AT ELEMENT      12  NODE=       10
   ITEM= F    COMP= X      NAME= FX

VARIABLE  9  IS AT ELEMENT      12  NODE=       10
```

```
   ITEM= F     COMP= Z      NAME= FZ

VARIABLE 10   IS AT ELEMENT       12   NODE=        10
   ITEM= M     COMP= X      NAME= MX

VARIABLE 11   IS AT ELEMENT       12   NODE=        10
   ITEM= M     COMP= Z      NAME= MZ

VARIABLE 12   IS AT ELEMENT       22   NODE=        15
   ITEM= F     COMP= Z      NAME= FZ

VARIABLE 13   IS AT ELEMENT       22   NODE=        15
   ITEM= M     COMP= Z      NAME= MZ

VARIABLE 14   IS AT ELEMENT       32   NODE=        23
   ITEM= M     COMP= X      NAME= MX

VARIABLE 15   IS AT ELEMENT       32   NODE=        23
   ITEM= M     COMP= Z      NAME= MZ

VARIABLE 16   IS AT ELEMENT       48   NODE=        35
   ITEM= F     COMP= Y      NAME= FY

VARIABLE 17   IS AT ELEMENT       52   NODE=        39
   ITEM= F     COMP= X      NAME= FX

VARIABLE 18   IS AT ELEMENT       52   NODE=        39
   ITEM= M     COMP= Y      NAME= MY

VARIABLE 19   IS AT ELEMENT       58   NODE=        45
   ITEM= F     COMP= Z      NAME= FZ

VARIABLE 20   IS AT ELEMENT       58   NODE=        45
   ITEM= M     COMP= Z      NAME= MZ

VARIABLE 21   IS AT ELEMENT       71   NODE=        56
   ITEM= F     COMP= X      NAME= FX

VARIABLE 22   IS AT ELEMENT       86   NODE=        72
   ITEM= F     COMP= X      NAME= FX

VARIABLE 23   IS AT ELEMENT      107   NODE=        93
   ITEM= M     COMP= X      NAME= MX

VARIABLE 24   IS AT ELEMENT      114   NODE=       102
   ITEM= F     COMP= X      NAME= FX

VARIABLE 25   IS AT ELEMENT      114   NODE=       102
   ITEM= F     COMP= Z      NAME= FZ

VARIABLE 26   IS AT ELEMENT      117   NODE=       103
   ITEM= F     COMP= X      NAME= FX

VARIABLE 27   IS AT ELEMENT      123   NODE=       112
   ITEM= M     COMP= Y      NAME= MY

VARIABLE 28   IS AT ELEMENT      125   NODE=       101
   ITEM= F     COMP= X      NAME= FX

VARIABLE 29   IS AT ELEMENT      125   NODE=       101
   ITEM= M     COMP= Y      NAME= MY

VARIABLE 30   IS AT ELEMENT      139   NODE=        65
   ITEM= F     COMP= X      NAME= FX

STORAGE COMPLETE FOR     100 DATA POINTS

        SUMMARY OF VARIABLES STORED THIS STEP AND EXTREME VALUES
VARI TYPE     IDENTIFIERS     NAME    MINIMUM     AT TIME     MAXIMUM    AT TIME

  2 ESOL      1 F     X      FX       -0.2675E-01  19.26     0.3293E-01  18.34
  3 ESOL      1 F     Y      FY       -0.1509E-01  18.64     0.1476E-01  18.98
  4 ESOL      1 M     X      MX       -0.5732E-01  19.96     0.5503E-01  18.96
  5 ESOL      1 M     Y      MY       -0.1451      18.26     0.1411      18.64
  6 ESOL      8 F     X      FX       -0.2538E-01  18.74     0.3017E-01  18.34
  7 ESOL      8 M     Z      MZ       -0.4946E-01  18.30     0.4049E-01  19.28
  8 ESOL     12 F     X      FX       -0.4330E-01  18.72     0.4963E-01  18.34
  9 ESOL     12 F     Z      FZ       -0.3242E-01  18.30     0.3274E-01  18.62
 10 ESOL     12 M     X      MX       -0.3104      18.62     0.3014      18.98
 11 ESOL     12 M     Z      MZ       -0.1871      19.14     0.1631      18.74
 12 ESOL     22 F     Z      FZ       -0.4577E-01  19.62     0.4605E-01  19.30
 13 ESOL     22 M     Z      MZ       -0.2647      18.32     0.2043      19.28
 14 ESOL     32 M     X      MX       -0.1694      19.30     0.1644      18.96
 15 ESOL     32 M     Z      MZ       -0.3153      19.00     0.3189      18.08
 16 ESOL     48 F     Y      FY       -0.8744E-01  18.30     0.8484E-01  19.30
 17 ESOL     52 F     X      FX       -0.3992E-01  18.76     0.5453E-01  18.32
 18 ESOL     52 M     Y      MY       -0.3717      18.34     0.3604      18.10
 19 ESOL     58 F     Z      FZ       -0.3113E-01  19.30     0.3193E-01  18.28
 20 ESOL     58 M     Z      MZ       -0.6470E-01  18.06     0.3651E-01  19.98
 21 ESOL     71 F     X      FX       -0.1012      18.12     0.6797E-01  18.52
 22 ESOL     86 F     X      FX       -0.5826E-01  19.68     0.5583E-01  18.20
```



```
 23 ESOL    107 M     X      MX       -0.2273E-01  18.34     0.2127E-01  18.08
 24 ESOL    114 F     X      FX       -0.2122E-01  19.80     0.2950E-01  18.12
 25 ESOL    114 F     Z      FZ       -0.2083E-01  18.34     0.1973E-01  18.08
 26 ESOL    117 F     X      FX       -0.6147E-02  18.20     0.5450E-02  18.32
 27 ESOL    123 M     Y      MY       -0.1510E-02  19.54     0.1626E-02  18.36
 28 ESOL    125 F     X      FX       -0.1065E-01  18.20     0.1162E-01  19.68
 29 ESOL    125 M     Y      MY       -0.1244E-01  18.20     0.1396E-01  19.68
 30 ESOL    139 F     X      FX       -0.3588E-01  19.68     0.3915E-01  18.20

        POST26 SUMMARY OF VARIABLE EXTREME VALUES
VARI TYPE     IDENTIFIERS     NAME    MINIMUM     AT TIME     MAXIMUM    AT TIME

  2 ESOL      1 F     X      FX       -0.2675E-01  19.26     0.3293E-01  18.34
  3 ESOL      1 F     Y      FY       -0.1509E-01  18.64     0.1476E-01  18.98
  4 ESOL      1 M     X      MX       -0.5732E-01  19.96     0.5503E-01  18.96
  5 ESOL      1 M     Y      MY       -0.1451      18.26     0.1411      18.64
  6 ESOL      8 F     X      FX       -0.2538E-01  18.74     0.3017E-01  18.34
  7 ESOL      8 M     Z      MZ       -0.4946E-01  18.30     0.4049E-01  19.28
  8 ESOL     12 F     X      FX       -0.4330E-01  18.72     0.4963E-01  18.34
  9 ESOL     12 F     Z      FZ       -0.3242E-01  18.30     0.3274E-01  18.62
 10 ESOL     12 M     X      MX       -0.3104      18.62     0.3014      18.98
 11 ESOL     12 M     Z      MZ       -0.1871      19.14     0.1631      18.74
 12 ESOL     22 F     Z      FZ       -0.4577E-01  19.62     0.4605E-01  19.30
 13 ESOL     22 M     Z      MZ       -0.2647      18.32     0.2043      19.28
 14 ESOL     32 M     X      MX       -0.1694      19.30     0.1644      18.96
 15 ESOL     32 M     Z      MZ       -0.3153      19.00     0.3189      18.08
 16 ESOL     48 F     Y      FY       -0.8744E-01  18.30     0.8484E-01  19.30
 17 ESOL     52 F     X      FX       -0.3992E-01  18.76     0.5453E-01  18.32
 18 ESOL     52 M     Y      MY       -0.3717      18.34     0.3604      18.10
 19 ESOL     58 F     Z      FZ       -0.3113E-01  19.30     0.3193E-01  18.28
 20 ESOL     58 M     Z      MZ       -0.6470E-01  18.06     0.3651E-01  19.98
 21 ESOL     71 F     X      FX       -0.1012      18.12     0.6797E-01  18.52
 22 ESOL     86 F     X      FX       -0.5826E-01  19.68     0.5583E-01  18.20

ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2ecx.db
 FOR POSSIBLE RESUME FROM THIS POINT


***** ROUTINE COMPLETED *****  CP =      19371.380


***** END OF INPUT ENCOUNTERED *****

PURGE ALL SOLUTION AND POST DATA
SAVE ALL MODEL DATA

ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2ecx.db
 FOR POSSIBLE RESUME FROM THIS POINT


NUMBER OF WARNING MESSAGES ENCOUNTERED=          11
NUMBER OF ERROR   MESSAGES ENCOUNTERED=           0
```

```
/batch,list
/filnam,pb2tfx
/units,bft                              !weight: kips, Length: feet
/prep7
g=386.4/12
a=144/1000
b=(12**3)/1000
c=0.036126684*b/g
d=12/1000
r1=2.875/12
r3=0.84/12
r5=1.9/12
t1=0.375/12
t3=0.188/12
t5=0.261/12
rr11=1.667
rr1=0.3125
rr12=0.5
rr13=0.313
rr3=0.125
rr5=0.187
/title, Time-history analysis of coupled system (pressurizer spray line)
mp,ex,1,(26.3e6*a)                      ! for piping
mp,nuxy,1,0.3
mp,dens,1,(0.40695565*b/g)
mp,ex,2,(28.3e6*a)
mp,nuxy,2,0.3
mp,dens,2,(0.43867346*b/g)
mp,ex,3,(28.3e6*a)
mp,nuxy,3,0.3
mp,dens,3,(0.92858561*b/g)
mp,ex,4,(28.3e6*a)
mp,nuxy,4,0.3
mp,dens,4,(5.8515393*b/g)
mp,ex,5,(28.3e6*a)
mp,nuxy,5,0.3
mp,dens,5,(0.49939372*b/g)
mp,ex,6,(28.3e6*a)
mp,nuxy,6,0.3
mp,dens,6,(2.5829705*b/g)
et,1,pipe16,,,,,1
et,2,pipe18,,,,,2
et,3,combin14,,,1                       !1D spring 'X' Direction
et,4,combin14,,,2                       !1D spring 'Y' Direction
et,5,combin14,,,3                       !1D spring 'Z' Direction
et,6,combin14,,,4                       !1D spring 'ROTX' Direction
et,7,combin14,,,5                       !1D spring 'ROTY' Direction
et,8,combin14,,,6                       !1D spring 'ROTZ' Direction
et,30,mass21,,,2
r,11,r1,t1,,,,c
r,211,r1,t1,rr11
rmore,c
r,21,r1,t1,rr1
rmore,c
r,212,r1,t1,rr12
rmore,c
r,213,r1,t1,rr13
rmore,c
r,13,r3,t3,,,,c
r,23,r3,t3,rr3
rmore,c
r,15,r5,t5,,,,c
r,25,r5,t5,rr5
rmore,c
r,51,(77000*d)
r,52,(56*d)
r,53,(212000*d)
r,54,(126*d)
r,55,(35*d)
r,56,(400*d)
r,57,(224*d)
r,58,(1.0e11*d)
r,59,8.33e8
r,31,(25.0/g/1000)
r,32,(4.0/g/1000)
r,33,(43.0/g/1000)
r,34,(40.0/g/1000)
r,35,(75.0/g/1000)
r,36,(5.0/g/1000)
r,37,(6.0/g/1000)
r,38,(105.0/g/1000)
r,39,(10.0/g/1000)
r,40,(12.0/g/1000)
r,41,(31.5/g/1000)
r,42,(230.0/g/1000)
f=1/(12*12)
i=1/(12**4)
et,71,beam4                             ! for building
mp,ex,71,(4.5e6*a)
mp,nuxy,71,0.3
mp,dens,71,0.0
r,71,(157000*f),(i*1.18e+10), (i*1.03e+10),
rmore,,,1.71,1.67
r,72,(243000*f),  (i*1.43e+10), (i*1.1e+10),
rmore,,,1.26,1.23
r,73,(162000*f),  (i*1.25e+10), (i*1.6e+10),
rmore,,,1.57,2.33
r,74,(132000*f),(i*1.15e+10), (i*1.48e+10),
rmore,,(i*2.64e10),1.59,2.26
r,75,  (92660*f),(i*5.656e+09),(i*2.151e+09),
rmore,,,1.42,2.57
```



```
r,76,  (98710*f),(i*7.372e+09),(i*2.603e+09),
rmore,,,1.51,2.88
et,72,mass21,,,2
r,77,(4474.0e3/g/1000)
r,78,(4428.75e3/g/1000)
r,79,(2650.75e3/g/1000)
r,80,(3207.25e3/g/1000)
r,81,(2847.75e3/g/1000)
N,1,0.574,0
N,2,0.396,574,-0.396
N,3,1.574,574,-0.884
N,4,3.79,574,-0.884
N,5,4.905,574,-0.884
N,9001,5.061,574.042,-0.884
N,9002,5.175,574.156,-0.884
N,6,5.217,574.312,-0.884
N,7,5.217,574.5,-0.884
N,9003,5.217,577.566,-0.884
N,9004,5.217,580.632,-0.884
N,9,5.217,583.698,-0.884
N,10,5.217,586.229,-0.884
N,9005,5.217,586.833,-0.884
N,9006,5.217,589.438,-0.884
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N,12,5.217,592.938,-0.884
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N,9008,5.373,593.208,-0.884
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N,14,5.759,593.25,-0.884
N,15,6.259,593.25,-0.884
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N,17,7.643,593.25,-0.752
N,18,8.051,593.25,-0.384
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N,24,10.379,605.655,1.944
N,9011,10.379,608.436,1.944
N,9012,10.379,611.218,1.944
N,25,10.379,613.999,1.944
N,26,10.379,614.791,1.944
N,9013,10.379,617.742,1.944
N,9014,10.379,620.693,1.944
N,27,10.379,623.645,1.944
N,28,10.379,624.749,1.944
N,29,10.379,626.415,1.944
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N,9016,10.379,632.638,1.944
N,30,10.379,635.749,1.944
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N,35,10.379,636.144,2.256
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N,9018,10.379,636.144,8.355
N,38,10.379,636.144,11.053
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N,101,16.135,636.707,22.111
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N,77,16.135,636.144,22.111
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N,103,22.866,636.144,21.277
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N,124,16.135,641.841,24.567
N,125,16.135,641.841,25.411
N,127,16.135,641.654,25.598
N,129,16.135,639.508,25.598
N,9024,16.135,637.966,25.598
N,130,16.135,636.425,25.598
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mat,1
e,1,2
type,2
real,211
e,2,3,1
type,1
real,11
e,3,4
e,4,5
type,2
real,21
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e,9001,9002,4
e,9002,6,4
type,1
real,11
e,6,7
e,7,9003
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e,9,10
e,10,9005
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e,9006,11
e,11,12
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e,14,15
e,15,16
type,2
real,21
e,16,17,15
type,1
real,11
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e,18,19
e,19,20
type,2
real,21
e,20,21,19
type,1
real,11
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e,   25 ,   26
e,   26 , 9013
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e, 9014 ,   27
e,   27 ,   28
e,   28 ,   29
e,   29 , 9015
e, 9015 , 9016
e, 9016 ,   30
e,   30 ,   31
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e,32,35,30
type,1
real,11
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e,   37 , 9017
e, 9017 , 9018
e, 9018 ,   38
e,   38 ,   39
e,   39 , 9019
e, 9019 ,   40
e,   40 ,   41
type,2
real,21
e,41,43,40
type,1
real,11
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e,   44 ,   45
e,   45 , 9020
e, 9020 ,   46
e,   46 ,   47
e,   47 ,   48
type,1
real,11
mat,2
e,48,49
e,49,50
type,1
real,11
mat,1
e,50,51
e,   51 ,   52
e,   52 ,   53
e,   53 ,   54
e,   54 ,   55
type,2
real,21
e,55,56,54
type,1
real,11
e,56,57
e,   57 ,   58
e,   58 ,   59
e,   59 ,   60
e,   60 ,   61
e,   61 ,   62
type,2
real,21
e,62,63,61
type,1
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type,1
real,11
mat,2
e,64,65
e,65,66
type,2
real,11
mat,1
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e,67,68
e,68,69
e,69,70
type,1
real,11
mat,2
e,70,71
e,71,72
type,1
real,11
mat,1
e,72,73
e,73,74
mat,2
e,74,75
e,75,76
mat,1
e,76,77
e,   77 ,   78
e,   78 , 9021
e, 9021 ,   79
e,   79 ,   80
e,   80 ,   81
type,2
real,21
e,81,82,80
type,1
real,11
e,82,9022
e, 9022 ,   83
e,   83 ,   84
e,   84 ,   85
type,2
real,212
e,85,86,84
type,1
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e,   101 ,   102
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cplgen,7,uy,uz,rotx,roty,rotz
d,301,all
lumpm,on
save
finish

C*** Time History analysis for earthquake record (Taft)
/output,pb2tfx0
/solu
antype,trans
trnopt,reduced
m,1,ux,134,,uy,uz
m,9001,ux,9024,,uy,uz
m,304,ux,310,2,uy,uz
m,313,ux,,,uy,uz
ALPHAD,0.7941209
BETAD,0.00046623099
DELTIM,0.001
T = 0.0
!MACRO TO GET ACCELERATION INPUT
*CREATE,GRNDXITN
  TIMINT, ON
  T = T + 0.02
  TIME,T
  ACEL,,(ARG1/12)
!   *USE,SAVESTEP,T
   OUTRES,NSOL,LAST
  SOLVE
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esol,25,155,37,f,y
esol,26,156,39,f,x
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```
esol,27,157,44,f,y
esol,28,158,45,f,z
esol,29,161,124,f,x
esol,30,162,129,f,z
esol,31,163,52,f,y
esol,32,164,54,f,z
esol,33,165,57,f,x
esol,34,167,73,f,z
esol,35,169,131,f,x
esol,36,170,131,f,z
esol,37,171,133,f,x
esol,38,172,133,f,z
esol,39,152,14,f,y
esol,40,159,53,f,y
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esol,42,166,78,f,y
esol,43,160,79,f,y
extrem,2,43
save
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outpr,,none
solve
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finish

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esol,4,145,1,f,z
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esol,6,147,1,m,y
esol,7,148,1,m,z
esol,8,173,87,f,x
esol,9,174,87,f,y
esol,10,175,87,f,z
esol,11,176,87,m,x
esol,12,177,87,m,y
esol,13,178,87,m,z
esol,14,179,130,f,x
esol,15,180,130,f,y
esol,16,181,130,f,z
esol,17,182,130,m,x
esol,18,183,130,m,y
esol,19,184,130,m,z
esol,20,149,9,f,x
esol,21,150,10,f,z
esol,22,151,15,f,y
esol,23,153,23,f,x
esol,24,154,28,f,z
esol,25,155,37,f,y
esol,26,156,39,f,x
esol,27,157,44,f,y
esol,28,158,45,f,z
esol,29,161,124,f,x
esol,30,162,129,f,z
esol,31,163,52,f,y
esol,32,164,54,f,z
esol,33,165,57,f,x
esol,34,167,73,f,z
esol,35,169,131,f,x
esol,36,170,131,f,z
esol,37,171,133,f,x
esol,38,172,133,f,z
esol,39,152,14,f,y
esol,40,159,53,f,y
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esol,43,160,79,f,y
extrem,2,43
save
finish

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outpr,,none
solve
save
finish

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esol,3,144,1,f y
esol,4,145,1,  ,z
esol,5,146,1 m,x
esol,6,147,  ,m,y
esol,7,148,1,m,z
esol,8,173,  7,f,x
esol,9,174,  7,f,y
esol,10,175,87,f,z
esol,11,176,87,m,x
esol,12,177,87,m,y
esol,13,178,87,m,z
esol,14,179,130,f,x
esol,15,180,130,f,y
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esol,16,181,130,f,z
esol,17,182,130,m,x
esol,18,183,130,m,y
esol,19,184,130,m,z
esol,20,149,9,f,x
esol,21,150,10,f,z
esol,22,151,15,f,y
esol,23,153,23,f,x
esol,24,154,28,f,z
esol,25,155,37,f,y
esol,26,156,39,f,x
esol,27,157,44,f,y
esol,28,158,45,f,z
esol,29,161,124,f,x
esol,30,162,129,f,z
esol,31,163,52,f,y
esol,32,164,54,f,z
esol,33,165,57,f,x
esol,34,167,73,f,z
esol,35,169,131,f,x
esol,36,170,131,f,z
esol,37,171,133,f,x
esol,38,172,133,f,z
esol,39,152,14,f,y
esol,40,159,53,f,y
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esol,42,166,78,f,y
esol,43,160,79,f,y
extrem,2,43
save
finish

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expass,on
numexp,100,0.0,0.1
outpr,,none
solve
save
finish

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esol ,  4 ,   1 ,   1 , m , x
esol ,  5 ,   1 ,   1 , m , y
esol ,  6 ,   8 ,   6 , f , x
esol ,  7 ,   8 ,   6 , m , z
esol ,  8 ,  12 ,  10 , f , x
esol ,  9 ,  12 ,  10 , f , z
esol , 10 ,  12 ,  10 , m , x
esol , 11 ,  12 ,  10 , m , z
esol , 12 ,  22 ,  15 , f , z
esol , 13 ,  22 ,  15 , m , z
esol , 14 ,  32 ,  23 , m , x
esol , 15 ,  32 ,  23 , m , z
esol , 16 ,  48 ,  35 , f , y
esol , 17 ,  52 ,  39 , f , x
esol , 18 ,  52 ,  39 , m , y
esol , 19 ,  58 ,  45 , f , z
esol , 20 ,  58 ,  45 , m , z
esol , 21 ,  71 ,  56 , f , x
esol , 22 ,  86 ,  72 , f , x
esol , 23 , 107 ,  93 , m , x
esol , 24 , 114 , 102 , f , x
esol , 25 , 114 , 102 , f , z
esol , 26 , 117 , 103 , f , x
esol , 27 , 123 , 112 , m , y
esol , 28 , 125 , 101 , f , x
esol , 29 , 125 , 101 , m , y
esol , 30 , 139 ,  65 , f , x
extrem,2,30
save
finish

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numexp,100,0.1,0.2
outpr,,none
solve
save
finish

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esol ,  3 ,   1 ,   1 , f , y
esol ,  4 ,   1 ,   1 , m , x
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esol , 11 ,  12 ,  10 , m , z
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esol , 16 ,  48 ,  35 , f , y
esol , 17 ,  52 ,  39 , f , x
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esol , 27 , 123 , 112 , m , y
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esol , 29 , 125 , 101 , m , y
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extrem,2,30
save
finish

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expass,on
numexp,100,0.2,0.3
outpr,,none
solve
save
finish

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numvar,30
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esol ,  3 ,   1 ,   1 , f , y
esol ,  4 ,   1 ,   1 , m , x
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esol ,  7 ,   8 ,   6 , m , z
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esol , 29 , 125 , 101 , m , y
esol , 30 , 139 ,  65 , f , x
extrem,2,30
save
finish

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expass,on
numexp,100,0.3,0.4
outpr,,none
solve
save
finish

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numvar,30
esol ,  2 ,   1 ,   1 , f , x
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esol ,  4 ,   1 ,   1 , m , x
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esol , 27 , 123 , 112 , m , y
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esol , 29 , 125 , 101 , m , y
esol , 30 , 139 ,  65 , f , x
extrem,2,30
save
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expass,on
numexp,100,0.4,0.5
outpr,,none
solve
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outpr,,none
solve
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save
finish

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esol , 19 ,  58 ,  45 , f , z
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extrem,2,30
save
finish

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outpr,,none
solve
save
finish

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esol , 28 , 125 , 101 , f , x
esol , 29 , 125 , 101 , m , y
esol , 30 , 139 ,  65 , f , x
extrem,2,30
save
finish
```

```
*------------------------------------------------------------------*
|                                                                  |
|       W E L C O M E   T O   T H E   A N S Y S   P R O G R A M    |
|                                                                  |
*------------------------------------------------------------------*



        ***** ANSYS COMMAND LINE ARGUMENTS *****
 MEMORY REQUESTED (MB) =      48.0
*** WARNING ***
AUTHORIZATION FILE WILL SOON EXPIRE.
CONTACT YOUR LOCAL ANSYS DISTRIBUTOR FOR DETAILS.


        ***** ANSYS DYNAMIC MEMORY ALLOCATION *****
 WORK SPACE REQUESTED               =   12582912       48.000  MB  COMMAND LINE
 MINIMUM WORK SPACE REQUIRED        =    2613736        9.971  MB
 MINIMUM WORK SPACE RECOMMENDED     =    4597640       17.539  MB
 WORK SPACE OBTAINED                =   12582910       48.000  MB
 BYTES PER WORD                     =          4




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    POSSIBLE.  SUGGESTIONS AND COMMENTS ARE WELCOMED.  ANY
    ERRORS ENCOUNTERED IN EITHER THE DOCUMENTATION OR THE
    RESULTS SHOULD BE IMMEDIATELY BROUGHT TO OUR ATTENTION.


ENTER  /SHOW,device TO SET THE GRAPHICS DISPLAY TO device(e.g. X11,4207,ETC.)
ENTER  /MENU,ON     TO START THE ANSYS MENU SYSTEM
ENTER  HELP         FOR GENERAL ANSYS HELP INFORMATION

40416-2          VERSION=SUN4SPARC      REVISION= 5.0
FOR SUPPORT CALL                  PHONE                      FAX
CURRENT JOBNAME=file      00:18:44  OCT 11, 1995 CP=      1.770


BEGIN:
    1  /filnam,pb2tfx
    2  /units,bft                              !weight: kips, Length: feet
    3  /prep7
    4  g=386.4/12
    5  a=144/1000
    6  b=(12**3)/1000
    7  c=0.036126684*b/g
    8  d=12/1000
    9  r1=2.875/12
   10  r3=0.84/12
   11  r5=1.9/12
   12  t1=0.375/12
   13  t3=0.188/12
   14  t5=0.281/12
   15  rr11=1.667
   16  rr1=0.3125
   17  rr12=0.5
   18  rr13=0.313
   19  rr3=0.125
   20  rr5=0.187
   21  /title, Time-history analysis of coupled system (pressurizer spray line)
   22  mp,ex,1,(28.3e6*a)                       ! for piping
   23  mp,nuxy,1,0.3
   24  mp,dens,1,(0.40695565*b/g)
   25  mp,ex,2,(28.3e6*a)
   26  mp,nuxy,2,0.3
   27  mp,dens,2,(0.43867246*b/g)
   28  mp,ex,3,(28.3e6*a)
   29  mp,nuxy,3,0.3
   30  mp,dens,3,(0.92858561*b/g)
   31  mp,ex,4,(28.3e6*a)
   32  mp,nuxy,4,0.3
   33  mp,dens,4,(5.8515393*b/g)
   34  mp,ex,5,(28.3e6*a)
   35  mp,nuxy,5,0.3
   36  mp,dens,5,(0.49939372*b/g)
   37  mp,ex,6,(28.1e6*a)
   38  mp,nuxy,6,0.3
   39  mp,dens,6,(2.5829705*b/g)
   40  et,1,pipe16,,,,,1
   41  et,2,pipe18,,,,,3
   42  et,3,combin14,,1                    !1D spring X' Direction
```



```
   43  et,4,combin14,,2                    !1D spring Y' Direction
   44  et,5,combin14,,3                    !1D spring Z' Direction
   45  et,6,combin14,,4                    !1D spring  ROTX' Direction
   46  et,7,combin14,,5                    !1D spring  ROTY' Direction
   47  et,8,combin14,,6                    !1D spring  ROTZ' Direction
   48  et,30,mass21,,,2
   49  r,11,r1,t1,,,,c
   50  r,211,r1,t1,rr11
   51  rmore,c
   52  r,21,r1,t1,rr1
   53  rmore,c
   54  r,212,r1,t1,rr12
   55  rmore,c
   56  r,213,r1,t1,rr13
   57  rmore,c
   58  r,13,r3,t3,,,,c
   59  r,23,r3,t3,rr3
   60  rmore,c
   61  r,15,r5,t5,,,,c
   62  r,25,r5,t5,rr5
   63  rmore,c
   64  r,51,(77000*d)
   65  r,52,(56*d)
   66  r,53,(212000*d)
   67  r,54,(126*d)
   68  r,55,(35*d)
   69  r,56,(400*d)
   70  r,57,(224*d)
   71  r,58,(1.0e11*d),
   72  r,59,8.33e6
   73  r,31,(25.0/g/1000)
   74  r,32,(4.0/g/1000)
   75  r,33,(43.0/g/1000)
   76  r,34,(40.0/g/1000)
   77  r,35,(75.0/g/1000)
   78  r,36,(5.0/g/1000)
   79  r,37,(6.0/g/1000)
   80  r,38,(105.0/g/1000)
   81  r,39,(10.0/g/1000)
   82  r,40,(12.0/g/1000)
   83  r,41,(31.5/g/1000)
   84  r,42,(230.0/g/1000)
   85  f=1/(12*12)
   86  i=1/(12**4)
   87  et,71,beam4                         ! for building
   88  mp,ex,71,(4.5e6*a)
   89  mp,nuxy,71,0.3
   90  mp,dens,71,0.0
   91  r,71,(157000*f),(i*1.18e+10), (i*1.03e+10),
   92  rmore,,,1.71,1.67
   93  r,72,(243000*f),   (i*1.43e+10), (i*1.1e+10),
   94  rmore,,,1.26,1.23
   95  r,73,(162000*f),   (i*1.25e+10), (i*1.6e+10),
   96  rmore,,,1.57,2.33
   97  r,74,(132000*f),(i*1.15e+10), (i*1.48e+10),
   98  rmore,,(i**2.64e10),1.59,2.26
   99  r,75, (92660*f),(i*5.656e+09),(i*2.151e+09),
  100  rmore,,,1.42,2.57
  101  r,76, (98710*f),(i*7.372e+09),(i*2.603e+09),
  102  rmore,,,1.51,2.88
  103  et,72,mass21,,,2
  104  r,77,(4474.0e3/g/1000)
  105  r,78,(4428.75e3/g/1000)
  106  r,79,(2650.75e3/g/1000)
  107  r,80,(3207.25e3/g/1000)
  108  r,81,(2847.75e3/g/1000)
  109  N,1,0,574,0
  110  N,2,0.396,574,-0.396
  111  N,3,1.574,574,-0.884
  112  N,4,3.79,574,-0.884
  113  N,5,4.905,574,-0.884
  114  N,9001,5.061,574.042,-0.884
  115  N,9002,5.175,574.156,-0.884
  116  N,6,5.217,574.312,-0.884
  117  N,7,5.217,574.5,-0.884
  118  N,9003,5.217,577.566,-0.884
  119  N,9004,5.217,580.632,-0.884
  120  N,9,5.217,583.698,-0.884
  121  N,10,5.217,584.229,-0.884
  122  N,9005,5.217,586.853,-0.884
  123  N,9006,5.217,589.436,-0.884
  124  N,11,5.217,592.042,-0.884
  125  N,12,5.217,592.938,-0.884
  126  N,9007,5.259,593.094,-0.884
  127  N,9008,5.373,593.208,-0.884
  128  N,13,5.53,593.25,-0.884
  129  N,14,5.759,593.25,-0.884
  130  N,15,6.259,593.25,-0.884
  131  N,16,7.422,593.25,-0.884
  132  N,17,7.643,593.25,-0.792
  133  N,18,8.051,593.25,-0.384
  134  N,19,8.629,593.25,0.194
  135  N,20,10.158,593.25,1.723
  136  N,21,10.379,593.562,1.944
  137  N,9009,10.379,596.903,1.944
  138  N,9010,10.379,600.243,1.944
  139  N,22,10.379,603.583,1.944
  140  N,23,10.379,604.291,1.944
  141  N,24,10.379,605.655,1.944
  142  N,9011,10.379,608.436,1.944
  143  N,9012,10.379,611.218,1.944
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124 N,25,10.379,613.999,1.944
125 N,26,10.379,614.791,1.944
126 N,9013,10.379,617.742,1.944
127 N,9014,10.379,620.693,1.944
128 N,27,10.379,623.645,1.944
129 N,28,10.379,624.749,1.944
130 N,29,10.379,626.415,1.944
131 N,9015,10.379,629.526,1.944
132 N,9016,10.379,632.638,1.944
133 N,30,10.379,635.749,1.944
134 N,31,10.379,635.832,1.944
135 N,32,10.379,636.053,2.035
136 N,35,10.379,636.144,2.256
137 N,37,10.379,636.144,2.959
138 N,9017,10.379,636.144,5.657
139 N,9018,10.379,636.144,8.355
140 N,38,10.379,636.144,11.053
141 N,39,10.379,636.144,11.918
142 N,9019,10.379,636.144,14.756
143 N,40,10.379,636.144,17.595
144 N,41,10.379,636.144,20.048
145 N,43,10.692,636.144,20.36
146 N,44,10.812,636.144,20.36
147 N,45,11.129,636.144,20.36
148 N,9020,13.507,636.144,20.36
149 N,46,15.885,636.144,20.36
150 N,47,16.135,636.144,20.36
151 N,48,16.385,636.144,20.36
152 N,49,16.801,636.144,20.36
153 N,50,17.218,636.144,20.36
154 N,51,17.343,636.144,20.36
155 N,52,17.801,636.144,20.36
156 N,53,19.822,636.144,20.36
157 N,54,22.801,636.144,20.36
158 N,55,22.864,636.144,20.36
159 N,56,23.176,636.144,20.673
160 N,57,23.176,636.144,20.86
161 N,58,23.176,636.144,21.027
162 N,59,23.176,636.144,21.277
163 N,60,23.176,636.144,21.527
164 N,61,23.176,636.144,21.777
165 N,62,23.176,636.144,21.798
166 N,63,22.864,636.144,22.11
167 N,64,21.947,636.144,22.11
168 N,65,21.53,636.144,22.11
169 N,66,21.113,636.144,22.11
170 N,67,20.759,636.144,22.11
171 N,68,20.509,636.144,22.11
172 N,69,20.259,636.144,22.11
173 N,70,20.071,636.144,22.11
174 N,71,19.654,636.144,22.11
175 N,72,19.237,636.144,22.11
176 N,73,17.383,636.144,22.11
177 N,74,17.175,636.144,22.11
178 N,75,16.758,636.144,22.11
179 N,76,16.341,636.144,22.11
180 N,77,16.133,636.144,22.11
181 N,78,15.799,636.144,22.11
182 N,9021,13.413,636.144,22.11
183 N,79,11.028,636.144,22.11
184 N,80,10.121,636.144,22.11
185 N,81,9.697,636.144,22.11
186 N,82,9.585,636.144,21.798
187 N,9022,9.585,636.144,19.663
188 N,83,9.585,636.144,17.527
189 N,84,9.585,636.144,17.333
190 N,85,9.585,636.144,17.174
191 N,86,9.231,635.791,16.694
192 N,87,8.76,635.319,16.694
193 N,47,16.135,636.144,20.36
194 N,91,16.135,636.394,20.36
195 N,92,16.135,637.332,20.36
196 N,93,16.135,637.644,20.673
197 N,94,16.135,637.644,20.944
198 N,95,16.135,637.644,21.361
199 N,96,16.135,637.644,21.778
200 N,97,16.135,637.644,21.799
201 N,98,16.135,637.332,22.111
202 N,100,16.135,636.957,22.111
203 N,101,16.135,636.707,22.111
204 N,102,16.135,636.394,22.111
205 N,77,16.135,636.144,22.111
206 N,59,23.176,636.144,21.277
207 N,103,22.866,636.144,21.277
208 N,104,22.092,636.144,21.277
209 N,105,21.842,636.144,21.277
210 N,106,21.592,636.144,21.277
211 N,107,20.634,636.144,21.277
212 N,109,20.509,636.144,21.402
213 N,111,20.509,636.144,21.683
214 N,112,20.509,636.144,21.801
215 N,66,20.509,636.144,22.111
216 N,101,16.135,636.707,22.111
217 N,113,16.135,636.707,22.611
218 N,114,16.135,636.707,22.965
219 N,115,16.135,636.707,23.319
220 N,116,16.135,636.707,23.84
221 N,118,16.135,636.894,24.027
222 N,9023,16.135,639.274,24.027
223 N,120,16.135,641.654,24.027
224 N,122,16.135,642.841,24.214
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225 N,124,16.135,641.841,24.567
226 N,125,16.135,641.841,25.411
227 N,127,16.135,641.654,25.598
228 N,129,16.135,639.508,25.598
229 N,9024,16.135,637.966,25.598
230 N,130,16.135,636.425,25.598
231 N,65,21.53,636.144,22.11
232 N,131,21.53,636.415,22.11
233 N,132,21.53,636.686,22.11
234 N,71,19.654,636.144,22.11
235 N,133,19.654,636.415,22.11
236 N,134,19.654,636.686,22.11
237 N,1001,0,574,0
238 N,1009,5.217,583.698,-0.884
239 N,1010,5.217,584.229,-0.884
240 N,1014,5.759,593.25,-0.884
241 N,1015,6.259,593.25,-0.884
242 N,1023,10.379,604.291,1.944
243 N,1028,10.379,624.749,1.944
244 N,1029,10.379,626.415,1.944
245 N,1037,10.379,636.144,2.959
246 N,1039,10.379,636.144,11.918
247 N,1044,10.812,636.144,20.36
248 N,1045,11.129,636.144,20.36
249 N,1052,17.801,636.144,20.36
250 N,1053,19.822,636.144,20.36
251 N,1054,22.801,636.144,20.36
252 N,1057,23.176,636.144,20.86
253 N,1061,23.176,636.144,21.777
254 N,1073,17.383,636.144,22.11
255 N,1078,15.799,636.144,22.11
256 N,1079,11.028,636.144,22.11
257 N,1087,8.76,635.319,16.694
258 N,1124,16.135,641.841,24.567
259 N,1129,16.135,639.508,25.598
260 N,1130,16.135,636.425,25.598
261 N,1131,21.53,636.415,22.11
262 N,1133,19.654,636.415,22.11
263 type,1
264 real,11
265 mat,1
266 e,1,2
267 type,2
268 real,211
269 e,2,3,1
270 type,1
271 real,11
272 e,3,4
273 e,4,5
274 type,2
275 real,21
276 e,5,9001,4
277 e,9001,9002,4
278 e,9002,6,4
279 type,1
280 real,11
281 e,6,7
282 e,7,9003
283 e,9003,9004
284 e,9004,9
285 e,9,10
286 e,10,9005
287 e,9005,9006
288 e,9006,11
289 e,11,12
290 type,2
291 real,21
292 e,12,9007,11
293 e,9007,9008,11
294 e,9008,13,12
295 type,1
296 real,11
297 e,13,14
298 e,14,15
299 e,15,16
300 type,2
301 real,21
302 e,16,17,15
303 type,1
304 real,11
305 e,17,18
306 e,18,19
307 e,19,20
308 type,2
309 real,21
310 e,20,21,19
311 type,1
312 real,11
313 e,21,9009
314 e, 9009 , 9010
315 e, 9010 ,   22
316 e,   22 ,   23
317 e,   23 ,   24
318 e,   24 , 9011
319 e, 9011 , 9012
320 e, 9012 ,   25
321 e,   25 ,   26
322 e,   26 , 9013
323 e, 9013 , 9014
324 e, 9014 ,   27
325 e,   27 ,   28
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346  e,   28 ,   29
347  e,   29 , 9015
348  e, 9015 , 9016
349  e, 9016 ,   30
350  e,   30 ,   31
351  type,2
352  real,21
353  e,31,32,30
354  e,32,35,30
355  type,1
356  real,11
357  e,35,37
358  e,   37 , 9017
359  e, 9017 , 9018
360  e, 9018 ,   38
361  e,   38 ,   39
362  e,   39 , 9019
363  e, 9019 ,   40
364  e,   40 ,   41
365  type,2
366  real,21
367  e,41,43,40
368  type,1
369  real,11
370  e,43,44
371  e,   44 ,   45
372  e,   45 , 9020
373  e, 9020 ,   46
374  e,   46 ,   47
375  e,   47 ,   48
376  type,1
377  real,11
378  mat,2
379  e,48,49
380  e,49,50
381  type,1
382  real,11
383  mat,1
384  e,50,51
385  e,   51 ,   52
386  e,   52 ,   53
387  e,   53 ,   54
388  e,   54 ,   55
389  type,2
390  real,21
391  e,55,56,54
392  type,1
393  real,11
394  e,56,57
395  e,   57 ,   58
396  e,   58 ,   59
397  e,   59 ,   60
398  e,   60 ,   61
399  e,   61 ,   62
400  type,2
401  real,21
402  e,62,63,61
403  type,1
404  real,11
405  e,63,64
406  type,1
407  real,11
408  mat,2
409  e,64,65
410  e,65,66
411  type,1
412  real,11
413  mat,1
414  e,66,67
415  e,67,68
416  e,68,69
417  e,69,70
418  type,1
419  real,11
420  mat,2
421  e,70,71
422  e,71,72
423  type,1
424  real,11
425  mat,1
426  e,72,73
427  e,73,74
428  mat,2
429  e,74,75
430  e,75,76
431  mat,1
432  e,76,77
433  e,   77 ,   78
434  e,   78 , 9021
435  e, 9021 ,   79
436  e,   79 ,   80
437  e,   80 ,   81
438  type,2
439  real,21
440  e,81,82,80
441  type,1
442  real,11
443  e,82,9022
444  e, 9022 ,   83
445  e,   83 ,   84
446  e,   84 ,   85
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447  type,2
448  real,212
449  e,85,86,84
450  type,1
451  real,11
452  e,86,87
453  e,47,91
454  e,91,92
455  type,2
456  real,213
457  e,92,93,91
458  type,1
459  real,11
460  e,93,94
461  mat,2
462  e,94,95
463  e,95,96
464  mat,1
465  e,96,97
466  type,2
467  real,21
468  e,97,98,96
469  type,1
470  real,11
471  e,98,100
472  e,  100 ,  101
473  e,  101 ,  102
474  e,102,77
475  type,1
476  mat,3
477  real,13
478  e,59,103
479  e,103,104
480  mat,4
481  e,104,105
482  e,105,106
483  mat,3
484  e,106,107
485  type,2
486  mat,3
487  real,23
488  e,107,109,106
489  type,1
490  mat,3
491  real,13
492  e,109,111
493  e,111,112
494  type,1
495  mat,5
496  real,15
497  e,112,68
498  e,101,113
499  mat,6
500  e,113,114
501  e,114,115
502  mat,5
503  e,115,116
504  type,2
505  real,25
506  e,116,118,115
507  type,1
508  mat,5
509  real,15
510  e,118,9023
511  e,9023,120
512  type,2
513  real,25
514  e,120,122,9023
515  type,1
516  mat,5
517  real,15
518  e,122,124
519  e,124,125
520  type,2
521  real,25
522  e,125,127,124
523  type,1
524  mat,5
525  real,15
526  e,127,129
527  e,129,9024
528  e,9024,130
529  mat,1
530  type,1
531  real,11
532  e,65,131
533  e,131,132
534  e,71,133
535  e,133,134
536  real,58
537  type,3
538  e,1,1001
539  type,4
540  e,1,1001
541  type,5
542  e,1,1001
543  real,59
544  type,6
545  e,1,1001
546  type,7
547  e,1,1001
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type,8
e,1,1001
real,51
type,3
e,9,1009
type,5
e,10,1010
type,4
e,15,1015
real,52
type,4
e,14,1014
real,51
type,3
e,23,1023
type,5
e,28,1028
real,53
type,4
e,37,1037
type,3
e,39,1039
real,51
type,4
e,44,1044
type,5
e,45,1045
real,54
type,4
e,53,1053
real,55
e,79,1079
real,51
type,3
e,124,1124
type,5
e,129,1129
type,4
e,52,1052
type,5
e,54,1054
type,3
e,57,1057
real,56
type,4
e,78,1078
type,5
real,51
e,73,1073
real,57
type,4
e,61,1061
real,51
type,3
e,131,1131
type,5
e,131,1131
type,3
e,133,1133
type,5
e,133,1133
real,58
type,3
e,87,1087
type,4
e,87,1087
type,5
e,87,1087
real,59
type,6
e,87,1087
type,7
e,87,1087
type,8
e,87,1087
real,58
type,3
e,130,1130
type,4
e,130,1130
type,5
e,130,1130
real,59
type,6
e,130,1130
type,7
e,130,1130
type,8
e,130,1130
type,30
real,31
e,9
e,10
e,15
e,23
e,28
e,44
e,45
e,52
e,54
e,57
```



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e,73
e,114
e,124
e,129
real,32
e,14
e,79
real,33
e,37
real,34
e,39
real,35
e,49
e,75
e,95
real,36
e,53
real,37
e,61
real,38
e,65
e,71
real,39
e,78
real,40
e,105
real,41
e,131
e,133
real,42
e,132
e,134
n, 301 ,0,        565 ,0,                    !for building
n, 302 ,0,        568 ,0,
n, 303 ,0,        571 ,0,
n, 304 ,0,        574 ,0,
n, 305 ,0, 577.82333 ,0,
n, 306 ,0,        590 ,0,
n, 307 ,0,      595.5 ,0,
n, 308 ,0,        604 ,0,
n, 309 ,0,      609.5 ,0,
n, 310 ,0,      624.5 ,0,
n, 311 ,0, 629.58333 ,0,
n, 312 ,0, 638.33333 ,0,
n, 313 ,0,        647 ,0,
type,71
mat,71
real,71
e,301,302
e,302,303
e,303,304
real,72
e,304,305
real,73
e,305,306
real,74
e,306,307
e,307,308
real,75
e,308,309
e,309,310
real,76
e,310,311
e,311,312
e,312,313
type,72
real,77
e,304
real,78
e,306
real,79
e,308
real,80
e,310
real,81
e,313
cp,1,ux,304,1001
cp,2,ux,309,1087
cp,3,ux,312,1037,1039,1044,1045,1053,1079
cp,3,ux,312,1124,1129,1052,1054,1057,1078
cp,3,ux,312,1073,1061,1131,1133,1130
cp,4,ux,306,1009,1010
cp,5,ux,307,1015,1014
cp,6,ux,308,1023
cp,7,ux,310,1028
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cplgen,6,uy,uz,rotx,roty,rotz
cplgen,7,uy,uz,rotx,roty,rotz
d,301,all
lumpm,on
save
finish

/*** Time History analysis for earthquake record (Taft)
/output,pb2tfx0
/solu
antype,trans
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m,1,ux,134,,uy,uz
m,9001,ux,9024,,uy,uz
m,304,ux,310,2,uy,uz
m,313,ux,,,uy,uz
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BETAD,0.00046623099
DELTIM,0.001
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!MACRO TO GET ACCELERATION INPUT
*CREATE,GRNDXITN
  TIMINT, ON
  T = T + 0.02
  TIME,T
  ACEL,{ARG1/12}
  *USE,SAVESTEP,T
  OUTRES,NSOL,LAST
  SOLVE
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3740  esol,7,148,1,m,z
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esol,20,149,9,f,x
esol,21,150,10,f,z
esol,22,151,15,f,y
esol,23,153,23,f,x
esol,24,154,28,f,z
esol,25,155,37,f,y
esol,26,156,39,f,x
esol,27,157,44,f,y
esol,28,158,45,f,z
esol,29,161,124,f,x
esol,30,162,129,f,z
esol,31,163,52,f,y
esol,32,164,54,f,z
esol,33,165,57,f,x
esol,34,167,73,f,z
esol,35,169,131,f,x
esol,36,170,131,f,z
esol,37,171,133,f,x
esol,38,172,133,f,z
esol,39,152,14,f,y
esol,40,159,53,f,y
esol,41,168,61,f,y
esol,42,166,78,f,y
esol,43,160,79,f,y
extrem,2,43
save
finish

/solu
expass,on
numexp,100,0.0,0.1
outpr,,none
solve
save
finish

/post26
numvar,30
esol , 2 ,  1 ,  1 , f , x
```

```
4184 esol , 3 ,   1 ,   , f , y
4185 esol , 4 ,   1 ,   1 , m , x
4186 esol , 5 ,   1 ,   1 , m , y
4187 esol , 6 ,   8 ,   6 , f , x
4188 esol , 7 ,   8 ,   6 , m , z
4189 esol , 8 ,  12 ,  10 , f , x
4190 esol , 9 ,  12 ,  10 , f , z
4191 esol , 10 ,  12 ,  10 , m , x
4192 esol , 11 ,  12 ,  10 , m , z
4193 esol , 12 ,  22 ,  15 , f , z
4194 esol , 13 ,  22 ,  15 , m , z
4195 esol , 14 ,  32 ,  23 , m , x
4196 esol , 15 ,  32 ,  23 , m , z
4197 esol , 16 ,  48 ,  35 , f , y
4198 esol , 17 ,  52 ,  39 , f , x
4199 esol , 18 ,  52 ,  39 , m , y
4200 esol , 19 ,  58 ,  45 , f , z
4201 esol , 20 ,  58 ,  45 , m , z
4202 esol , 21 ,  71 ,  56 , f , x
4203 esol , 22 ,  86 ,  72 , f , x
4204 esol , 23 , 107 ,  93 , m , x
4205 esol , 24 , 114 , 102 , f , x
4206 esol , 25 , 114 , 102 , f , z
4207 esol , 26 , 117 , 103 , f , x
4208 esol , 27 , 123 , 112 , m , y
4209 esol , 28 , 125 , 101 , f , x
4210 esol , 29 , 125 , 101 , m , y
4211 esol , 30 , 139 ,  65 , f , x
4212 extrem,2,30
4213 save
4214 finish
4215
4216 /solu
4217 expass,on
4218 numexp,100,0.1,0.2
4219 outpr,,none
4220 solve
4221 save
4222 finish
4223
4224 /post26
4225 numvar,30
4226 esol ,  2 ,   1 ,   1 , f , x
4227 esol ,  3 ,   1 ,   1 , f , y
4228 esol ,  4 ,   1 ,   1 , m , x
4229 esol ,  5 ,   1 ,   1 , m , y
4230 esol ,  6 ,   8 ,   6 , f , x
4231 esol ,  7 ,   8 ,   6 , m , z
4232 esol ,  8 ,  12 ,  10 , f , x
4233 esol ,  9 ,  12 ,  10 , f , z
4234 esol , 10 ,  12 ,  10 , m , x
4235 esol , 11 ,  12 ,  10 , m , z
4236 esol , 12 ,  22 ,  15 , f , z
4237 esol , 13 ,  22 ,  15 , m , z
4238 esol , 14 ,  32 ,  23 , m , x
4239 esol , 15 ,  32 ,  23 , m , z
4240 esol , 16 ,  48 ,  35 , f , y
4241 esol , 17 ,  52 ,  39 , f , x
4242 esol , 18 ,  52 ,  39 , m , y
4243 esol , 19 ,  58 ,  45 , f , z
4244 esol , 20 ,  58 ,  45 , m , z
4245 esol , 21 ,  71 ,  56 , f , x
4246 esol , 22 ,  86 ,  72 , f , x
4247 esol , 23 , 107 ,  93 , m , x
4248 esol , 24 , 114 , 102 , f , x
4249 esol , 25 , 114 , 102 , f , z
4250 esol , 26 , 117 , 103 , f , x
4251 esol , 27 , 123 , 112 , m , y
4252 esol , 28 , 125 , 101 , f , x
4253 esol , 29 , 125 , 101 , m , y
4254 esol , 30 , 139 ,  65 , f , x
4255 extrem,2,30
4256 save
4257 finish
4258
4259 /solu
4260 expass,on
4261 numexp,100,0.2,0.3
4262 outpr,,none
4263 solve
4264 save
4265 finish
4266
4267 /post26
4268 numvar,30
4269 esol ,  2 ,   1 ,   1 , f , x
4270 esol ,  3 ,   1 ,   1 , f , y
4271 esol ,  4 ,   1 ,   1 , m , x
4272 esol ,  5 ,   1 ,   1 , m , y
4273 esol ,  6 ,   8 ,   6 , f , x
4274 esol ,  7 ,   8 ,   6 , m , z
4275 esol ,  8 ,  12 ,  10 , f , x
4276 esol ,  9 ,  12 ,  10 , f , z
4277 esol , 10 ,  12 ,  10 , m , x
4278 esol , 11 ,  12 ,  10 , m , z
4279 esol , 12 ,  22 ,  15 , f , z
4280 esol , 13 ,  22 ,  15 , m , z
4281 esol , 14 ,  32 ,  23 , m , x
4282 esol , 15 ,  32 ,  23 , m , z
4283 esol , 16 ,  48 ,  35 , f , y
4284 esol , 17 ,  52 ,  39 , f , x
```



```
4285 esol , 18 ,  52 ,  39 , m , y
4286 esol , 19 ,  58 ,  45 , f , z
4287 esol , 20 ,  58 ,  45 , m , z
4288 esol , 21 ,  71 ,  56 , f , x
4289 esol , 22 ,  86 ,  72 , f , x
4290 esol , 23 , 107 ,  93 , m , x
4291 esol , 24 , 114 , 102 , f , x
4292 esol , 25 , 114 , 102 , f , z
4293 esol , 26 , 117 , 103 , f , x
4294 esol , 27 , 123 , 112 , m , y
4295 esol , 28 , 125 , 101 , f , x
4296 esol , 29 , 125 , 101 , m , y
4297 esol , 30 , 139 ,  65 , f , x
4298 extrem,2,30
4299 save
4300 finish
4301
4302 /solu
4303 expass,on
4304 numexp,100,0.3,0.4
4305 outpr,,none
4306 solve
4307 save
4308 finish
4309
4310 /post26
4311 numvar,30
4312 esol ,  2 ,   1 ,   1 , f , x
4313 esol ,  3 ,   1 ,   1 , f , y
4314 esol ,  4 ,   1 ,   1 , m , x
4315 esol ,  5 ,   1 ,   1 , m , y
4316 esol ,  6 ,   8 ,   6 , f , x
4317 esol ,  7 ,   8 ,   6 , m , z
4318 esol ,  8 ,  12 ,  10 , f , x
4319 esol ,  9 ,  12 ,  10 , f , z
4320 esol , 10 ,  12 ,  10 , m , x
4321 esol , 11 ,  12 ,  10 , m , z
4322 esol , 12 ,  22 ,  15 , f , z
4323 esol , 13 ,  22 ,  15 , m , z
4324 esol , 14 ,  32 ,  23 , m , x
4325 esol , 15 ,  32 ,  23 , m , z
4326 esol , 16 ,  48 ,  35 , f , y
4327 esol , 17 ,  52 ,  39 , f , x
4328 esol , 18 ,  52 ,  39 , m , y
4329 esol , 19 ,  58 ,  45 , f , z
4330 esol , 20 ,  58 ,  45 , m , z
4331 esol , 21 ,  71 ,  56 , f , x
4332 esol , 22 ,  86 ,  72 , f , x
4333 esol , 23 , 107 ,  93 , m , x
4334 esol , 24 , 114 , 102 , f , x
4335 esol , 25 , 114 , 102 , f , z
4336 esol , 26 , 117 , 103 , f , x
4337 esol , 27 , 123 , 112 , m , y
4338 esol , 28 , 125 , 101 , f , x
4339 esol , 29 , 125 , 101 , m , y
4340 esol , 30 , 139 ,  65 , f , x
4341 extrem,2,30
4342 save
4343 finish
4344
4345 /solu
4346 expass,on
4347 numexp,100,0.4,0.5
4348 outpr,,none
4349 solve
4350 save
4351 finish
4352
4353 /post26
4354 numvar,30
4355 esol ,  2 ,   1 ,   1 , f , x
4356 esol ,  3 ,   1 ,   1 , f , y
4357 esol ,  4 ,   1 ,   1 , m , x
4358 esol ,  5 ,   1 ,   1 , m , y
4359 esol ,  6 ,   8 ,   6 , f , x
4360 esol ,  7 ,   8 ,   6 , m , z
4361 esol ,  8 ,  12 ,  10 , f , x
4362 esol ,  9 ,  12 ,  10 , f , z
4363 esol , 10 ,  12 ,  10 , m , x
4364 esol , 11 ,  12 ,  10 , m , z
4365 esol , 12 ,  22 ,  15 , f , z
4366 esol , 13 ,  22 ,  15 , m , z
4367 esol , 14 ,  32 ,  23 , m , x
4368 esol , 15 ,  32 ,  23 , m , z
4369 esol , 16 ,  48 ,  35 , f , y
4370 esol , 17 ,  52 ,  39 , f , x
4371 esol , 18 ,  52 ,  39 , m , y
4372 esol , 19 ,  58 ,  45 , f , z
4373 esol , 20 ,  58 ,  45 , m , z
4374 esol , 21 ,  71 ,  56 , f , x
4375 esol , 22 ,  86 ,  72 , f , x
4376 esol , 23 , 107 ,  93 , m , x
4377 esol , 24 , 114 , 102 , f , x
4378 esol , 25 , 114 , 102 , f , z
4379 esol , 26 , 117 , 103 , f , x
4380 esol , 27 , 123 , 112 , m , y
4381 esol , 28 , 125 , 101 , f , x
4382 esol , 29 , 125 , 101 , m , y
4383 esol , 30 , 139 ,  65 , f , x
4384 extrem,2,30
4385 save
```

```
finish

/solu
expass,on
numexp,100,0.5,0.6
outpr,,none
solve
save
finish

/post26
numvar,30
esol , 2 ,   1 ,   1 , f , x
esol , 3 ,   1 ,   1 , f , y
esol , 4 ,   1 ,   1 , m , x
esol , 5 ,   1 ,   1 , m , y
esol , 6 ,   8 ,   6 , f , x
esol , 7 ,   8 ,   6 , m , z
esol , 8 ,  12 ,  10 , f , x
esol , 9 ,  12 ,  10 , f , z
esol , 10 ,  12 ,  10 , m , x
esol , 11 ,  12 ,  10 , m , z
esol , 12 ,  22 ,  15 , f , z
esol , 13 ,  22 ,  15 , m , z
esol , 14 ,  32 ,  23 , m , x
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esol , 17 ,  52 ,  39 , f , x
esol , 18 ,  52 ,  39 , m , y
esol , 19 ,  58 ,  45 , f , z
esol , 20 ,  58 ,  45 , m , z
esol , 21 ,  71 ,  56 , f , x
esol , 22 ,  86 ,  72 , f , x
esol , 23 , 107 ,  93 , m , x
esol , 24 , 114 , 102 , f , x
esol , 25 , 114 , 102 , f , z
esol , 26 , 117 , 103 , f , x
esol , 27 , 123 , 112 , m , y
esol , 28 , 125 , 101 , f , x
esol , 29 , 125 , 101 , m , y
esol , 30 , 139 ,  65 , f , x
extrem,2,30
save
finish

/solu
expass,on
numexp,100,0.6,0.7
outpr,,none
solve
save
finish

/post26
numvar,30
esol , 2 ,   1 ,   1 , f , x
esol , 3 ,   1 ,   1 , f , y
esol , 4 ,   1 ,   1 , m , x
esol , 5 ,   1 ,   1 , m , y
esol , 6 ,   8 ,   6 , f , x
esol , 7 ,   8 ,   6 , m , z
esol , 8 ,  12 ,  10 , f , x
esol , 9 ,  12 ,  10 , f , z
esol , 10 ,  12 ,  10 , m , x
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esol , 15 ,  32 ,  23 , m , z
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esol , 22 ,  86 ,  72 , f , x
esol , 23 , 107 ,  93 , m , x
esol , 24 , 114 , 102 , f , x
esol , 25 , 114 , 102 , f , z
esol , 26 , 117 , 103 , f , x
esol , 27 , 123 , 112 , m , y
esol , 28 , 125 , 101 , f , x
esol , 29 , 125 , 101 , m , y
esol , 30 , 139 ,  65 , f , x
extrem,2,30
save
finish

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expass,on
numexp,100,0.7,0.8
outpr,,none
solve
save
finish

/post26
numvar,30
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esol , 3 ,   1 ,   1 , f , y
esol , 4 ,   1 ,   1 , m , x
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esol , 6 ,   8 ,   6 , f , x
esol , 7 ,   8 ,   6 , m , z
esol , 8 ,  12 ,  10 , f , x
esol , 9 ,  12 ,  10 , f , z
esol , 10 ,  12 ,  10 , m , x
esol , 11 ,  12 ,  10 , m , z
esol , 12 ,  22 ,  15 , f , z
esol , 13 ,  22 ,  15 , m , z
esol , 14 ,  32 ,  23 , m , x
esol , 15 ,  32 ,  23 , m , z
esol , 16 ,  48 ,  35 , f , y
esol , 17 ,  52 ,  39 , f , x
esol , 18 ,  52 ,  39 , m , y
esol , 19 ,  58 ,  45 , f , z
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esol , 21 ,  71 ,  56 , f , x
esol , 22 ,  86 ,  72 , f , x
esol , 23 , 107 ,  93 , m , x
esol , 24 , 114 , 102 , f , x
esol , 25 , 114 , 102 , f , z
esol , 26 , 117 , 103 , f , x
esol , 27 , 123 , 112 , m , y
esol , 28 , 125 , 101 , f , x
esol , 29 , 125 , 101 , m , y
esol , 30 , 139 ,  65 , f , x
extrem,2,30
save
finish

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numexp,100,0.8,0.9
outpr,,none
solve
save
finish

/post26
numvar,30
esol , 2 ,   1 ,   1 , f , x
esol , 3 ,   1 ,   1 , f , y
esol , 4 ,   1 ,   1 , m , x
esol , 5 ,   1 ,   1 , m , y
esol , 6 ,   8 ,   6 , f , x
esol , 7 ,   8 ,   6 , m , z
esol , 8 ,  12 ,  10 , f , x
esol , 9 ,  12 ,  10 , f , z
esol , 10 ,  12 ,  10 , m , x
esol , 11 ,  12 ,  10 , m , z
esol , 12 ,  22 ,  15 , f , z
esol , 13 ,  22 ,  15 , m , z
esol , 14 ,  32 ,  23 , m , x
esol , 15 ,  32 ,  23 , m , z
esol , 16 ,  48 ,  35 , f , y
esol , 17 ,  52 ,  39 , f , x
esol , 18 ,  52 ,  39 , m , y
esol , 19 ,  58 ,  45 , f , z
esol , 20 ,  58 ,  45 , m , z
esol , 21 ,  71 ,  56 , f , x
esol , 22 ,  86 ,  72 , f , x
esol , 23 , 107 ,  93 , m , x
esol , 24 , 114 , 102 , f , x
esol , 25 , 114 , 102 , f , z
esol , 26 , 117 , 103 , f , x
esol , 27 , 123 , 112 , m , y
esol , 28 , 125 , 101 , f , x
esol , 29 , 125 , 101 , m , y
esol , 30 , 139 ,  65 , f , x
extrem,2,30
save
finish

/solu
expass,on
numexp,100,0.9,1.0
outpr,,none
solve
save
finish

/post26
numvar,30
esol , 2 ,   1 ,   1 , f , x
esol , 3 ,   1 ,   1 , f , y
esol , 4 ,   1 ,   1 , m , x
esol , 5 ,   1 ,   1 , m , y
esol , 6 ,   8 ,   6 , f , x
esol , 7 ,   8 ,   6 , m , z
esol , 8 ,  12 ,  10 , f , x
esol , 9 ,  12 ,  10 , f , z
esol , 10 ,  12 ,  10 , m , x
esol , 11 ,  12 ,  10 , m , z
esol , 12 ,  22 ,  15 , f , z
esol , 13 ,  22 ,  15 , m , z
esol , 14 ,  32 ,  23 , m , x
esol , 15 ,  32 ,  23 , m , z
esol , 16 ,  48 ,  35 , f , y
esol , 17 ,  52 ,  39 , f , x
esol , 18 ,  52 ,  39 , m , y
esol , 19 ,  58 ,  45 , f , z
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  4588  esol , 20 ,  58 ,  45 , m , z
  4589  esol , 21 ,  71 ,  56 , f , x
  4590  esol , 22 ,  86 ,  72 , f , x
  4591  esol , 23 , 107 ,  93 , m , x
  4592  esol , 24 , 114 , 102 , f , x
  4593  esol , 25 , 114 , 102 , f , z
  4594  esol , 26 , 117 , 103 , f , x
  4595  esol , 27 , 123 , 112 , m , y
  4596  esol , 28 , 125 , 101 , f , x
  4597  esol , 29 , 125 , 101 , m , y
  4598  esol , 30 , 139 ,  65 , f , x
  4599  extrom,2,30
  4600  save
  4601  finish

 CURRENT JOBNAME REDEFINED AS pb2tfx

 BRITISH FEET UNITS SPECIFIED
  LENGTH      = FEET(FT)
  MASS        = SLUGS
  TIME        = SECONDS(SEC)
  TEMPERATURE = FAHRENHEIT
  CURRENT     = AMPS
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0     *****
 40416-2          VERSION=SUN4SPARC     00:16:52  OCT 11, 1995 CP=      6.090
 FOR SUPPORT CALL                    PHONE                      FAX


 **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**

          ***** ANSYS ANALYSIS DEFINITION (PREP7) *****

 PARAMETER G         =     32.20000

 PARAMETER A         =    0.1440000

 PARAMETER B         =     1.728000

 PARAMETER C         =    0.1938724E-02

 PARAMETER D         =    0.1200000E-01

 PARAMETER R1        =    0.2395833

 PARAMETER R3        =    0.7000000E-01

 PARAMETER R5        =    0.1583333

 PARAMETER T1        =    0.3125000E-01

 PARAMETER T3        =    0.1566667E-01

 PARAMETER T5        =    0.2341667E-01

 PARAMETER R*11      =     1.667000

 PARAMETER RR1       =    0.3125000

 PARAMETER RR12      =    0.5000000

 PARAMETER RR13      =    0.3130000

 PARAMETER RR3       =    0.1250000

 PARAMETER RR5       =    0.1870000

 TITLE=
  Time-history analysis of coupled system (pressurizer spray line)

 MATERIAL    1          EX   =    4075200.

 MATERIAL    1          NUXY =    0.3000000

 MATERIAL    1          DENS =    0.2183911E-01

 MATERIAL    2          EX   =    4075200.

 MATERIAL    2          NUXY =    0.3000000

 MATERIAL    2          DENS =    0.2354123E-01

 MATERIAL    3          EX   =    4075200.

 MATERIAL    3          NUXY =    0.3000000

 MATERIAL    3          DENS =    0.4983217E-01

 MATERIAL    4          EX   =    4075200.

 MATERIAL    4          NUXY =    0.3000000

 MATERIAL    4          DENS =    0.3140205

 MATERIAL    5          EX   =    4075200.

 MATERIAL    5          NUXY =    0.3000000
```



```
 MATERIAL    5          DENS =    0.2679976E-01

 MATERIAL    6          EX   =    4075200.

 MATERIAL    6          NUXY =    0.3000000

 MATERIAL    6          DENS =    0.1386141

 ELEMENT TYPE    1 IS PIPE16       ELASTIC STRAIGHT PIPE
  KEYOPT(1-12)=    0  0  0    0  0  1    0  0  0    0  0  0

 CURRENT NODAL DOF SET IS  UX    UY    UZ    ROTX  ROTY  ROTZ
  THREE-DIMENSIONAL MODEL

 ELEMENT TYPE    2 IS PIPE18       ELASTIC CURVED PIPE (ELBOW)
  KEYOPT(1-12)=    0  0  0    0  0  2    0  0  0    0  0  0

 CURRENT NODAL DOF SET IS  UX    UY    UZ    ROTX  ROTY  ROTZ
  THREE-DIMENSIONAL MODEL

 ELEMENT TYPE    3 IS COMBIN14     SPRING-DAMPER
  KEYOPT(1-12)=    0  1  0    0  0  0    0  0  0    0  0  0

 CURRENT NODAL DOF SET IS  UX    UY    UZ    ROTX  ROTY  ROTZ
  THREE-DIMENSIONAL MODEL

 ELEMENT TYPE    4 IS COMBIN14     SPRING-DAMPER
  KEYOPT(1-12)=    0  2  0    0  0  0    0  0  0    0  0  0

 CURRENT NODAL DOF SET IS  UX    UY    UZ    ROTX  ROTY  ROTZ
  THREE-DIMENSIONAL MODEL

 ELEMENT TYPE    5 IS COMBIN14     SPRING-DAMPER
  KEYOPT(1-12)=    0  3  0    0  0  0    0  0  0    0  0  0

 CURRENT NODAL DOF SET IS  UX    UY    UZ    ROTX  ROTY  ROTZ
  THREE-DIMENSIONAL MODEL

 ELEMENT TYPE    6 IS COMBIN14     SPRING-DAMPER
  KEYOPT(1-12)=    0  4  0    0  0  0    0  0  0    0  0  0

 CURRENT NODAL DOF SET IS  UX    UY    UZ    ROTX  ROTY  ROTZ
  THREE-DIMENSIONAL MODEL

 ELEMENT TYPE    7 IS COMBIN14     SPRING-DAMPER
  KEYOPT(1-12)=    0  5  0    0  0  0    0  0  0    0  0  0

 CURRENT NODAL DOF SET IS  UX    UY    UZ    ROTX  ROTY  ROTZ
  THREE-DIMENSIONAL MODEL

 ELEMENT TYPE    8 IS COMBIN14     SPRING-DAMPER
  KEYOPT(1-12)=    0  6  0    0  0  0    0  0  0    0  0  0

 CURRENT NODAL DOF SET IS  UX    UY    UZ    ROTX  ROTY  ROTZ
  THREE-DIMENSIONAL MODEL

 ELEMENT TYPE   30 IS MASS21       STRUCTURAL MASS
  KEYOPT(1-12)=    0  0  2    0  0  0    0  0  0    0  0  0

 CURRENT NODAL DOF SET IS  UX    UY    UZ    ROTX  ROTY  ROTZ
  THREE-DIMENSIONAL MODEL

 REAL CONSTANT SET      11  ITEMS    1 TO    6
   0.23958      0.31250E-01      0.               0.               0.      0.19387E-02

 REAL CONSTANT SET     211  ITEMS    1 TO    6
   0.23958      0.31250E-01   1.6670              0.               0.               0.

 REAL CONSTANT SET     211  ITEMS    7 TO   12
   0.19387E-02      0.               0.               0.               0.               0.

 REAL CONSTANT SET      21  ITEMS    1 TO    6
   0.23958      0.31250E-01  0.31250              0.               0.               0.

 REAL CONSTANT SET      21  ITEMS    7 TO   12
   0.19387E-02      0.               0.               0.               0.               0.

 REAL CONSTANT SET     212  ITEMS    1 TO    6
   0.23958      0.31250E-01  0.50000              0.               0.               0.

 REAL CONSTANT SET     212  ITEMS    7 TO   12
   0.19387E-02      0.               0.               0.               0.               0.

 REAL CONSTANT SET     213  ITEMS    1 TO    6
   0.23958      0.31250E-01  0.31300              0.               0.               0.

 REAL CONSTANT SET     213  ITEMS    7 TO   12
   0.19387E-02      0.               0.               0.               0.               0.

 REAL CONSTANT SET      11  ITEMS    1 TO    6
   0.70000E-01  0.15667E-01      0.               0.               0.      0.19387E-02

 REAL CONSTANT SET      23  ITEMS    1 TO    6
   0.70000E-01  0.15667E-01  0.12500              0.               0.               0.

 REAL CONSTANT SET      23  ITEMS    7 TO   12
   0.19387E-02      0.               0.               0.               0.               0.

 REAL CONSTANT SET      15  ITEMS    1 TO    6
   0.15833      0.23417E-01      0.               0.               0.      0.19387E-02
```

```
 REAL CONSTANT SET       25  ITEMS     1 TO     6
   0.15833       0.23417E-01   0.18700         0.                0.

 REAL CONSTANT SET       25  ITEMS     7 TO    12
   0.19387E-02         0.              0.              0.        0.

 REAL CONSTANT SET       51  ITEMS     1 TO     6
   924.00              0.              0.              0.        0.

 REAL CONSTANT SET       52  ITEMS     1 TO     6
   0.67200             0.              0.              0.        0.

 REAL CONSTANT SET       53  ITEMS     1 TO     6
   2544.0              0.              0.              0.        0.

 REAL CONSTANT SET       54  ITEMS     1 TO     6
   1.5120              0.              0.              0.        0.

 REAL CONSTANT SET       55  ITEMS     1 TO     6
   0.42000             0.              0.              0.        0.

 REAL CONSTANT SET       56  ITEMS     1 TO     6
   4.8000              0.              0.              0.        0.

 REAL CONSTANT SET       57  ITEMS     1 TO     6
   2.6880              0.              0.              0.        0.

 REAL CONSTANT SET       58  ITEMS     1 TO     6
   0.12000E+10         0.              0.              0.        0.

 REAL CONSTANT SET       59  ITEMS     1 TO     6
   0.83300E+09         0.              0.              0.        0.

 REAL CONSTANT SET       31  ITEMS     1 TO     6
   0.77640E-03         0.              0.              0.        0.

 REAL CONSTANT SET       32  ITEMS     1 TO     6
   0.12422E-03         0.              0.              0.        0.

 REAL CONSTANT SET       33  ITEMS     1 TO     6
   0.13354E-02         0.              0.              0.        0.

 REAL CONSTANT SET       34  ITEMS     1 TO     6
   0.12422E-02         0.              0.              0.        0.

 REAL CONSTANT SET       35  ITEMS     1 TO     6
   0.23292E-02         0.              0.              0.        0.

 REAL CONSTANT SET       36  ITEMS     1 TO     6
   0.15528E-03         0.              0.              0.        0.

 REAL CONSTANT SET       37  ITEMS     1 TO     6
   0.18634E-03         0.              0.              0.        0.

 REAL CONSTANT SET       38  ITEMS     1 TO     6
   0.32609E-02         0.              0.              0.        0.

 REAL CONSTANT SET       39  ITEMS     1 TO     6
   0.31056E-03         0.              0.              0.        0.

 REAL CONSTANT SET       40  ITEMS     1 TO     6
   0.37267E-03         0.              0.              0.        0.

 REAL CONSTANT SET       41  ITEMS     1 TO     6
   0.97826E-03         0.              0.              0.        0.

 REAL CONSTANT SET       42  ITEMS     1 TO     6
   0.71429E-02         0.              0.              0.        0.

 PARAMETER F         =    0.6944444E-02

 PARAMETER I         =    0.4822531E-04

 ELEMENT TYPE   71 IS BEAM4         3-D ELASTIC BEAM
  KEYOPT(1-12)=    0  0  0     0  0  0     0  0  0     0  0  0

 CURRENT NODAL DOF SET IS  UX    UY    UZ    ROTX  ROTY  ROTZ
  THREE-DIMENSIONAL MODEL

 MATERIAL   71          EX  =    648000.0

 MATERIAL   71          NUXY =    0.3000000

 MATERIAL   71          DENS =           0.

 REAL CONSTANT SET       71  ITEMS     1 TO     6
   1090.3        0.56906E+06   0.49672E+06       0.                0.

 REAL CONSTANT SET       71  ITEMS     7 TO    12
         0.              0.            1.7100          1.6700      0.        0.

 REAL CONSTANT SET       72  ITEMS     1 TO     6
   1687.5        0.68962E+06   0.53048E+06       0.                0.

 REAL CONSTANT SET       72  ITEMS     7 TO    12
         0.              0.            1.2600          1.2300      0.        0.

 REAL CONSTANT SET       73  ITEMS     1 TO     6
   1125.0        0.60282E+06   0.77160E+06       0.                0.

 REAL CONSTANT SET       73  ITEMS     7 TO    12
```



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         0.              0.            1.5700          2.3300      0.        0.

 REAL CONSTANT SET       74  ITEMS     1 TO     6
   916.67        0.55459E+06   0.71373E+06       0.                0.

 REAL CONSTANT SET       74  ITEMS     7 TO    12
         0.              0.            1.5900          2.2600      0.        0.

 REAL CONSTANT SET       75  ITEMS     1 TO     6
   643.47        0.27276E+06   0.10373E+06       0.                0.

 REAL CONSTANT SET       75  ITEMS     7 TO    12
         0.              0.            1.4200          2.5700      0.        0.

 REAL CONSTANT SET       76  ITEMS     1 TO     6
   685.49        0.35552E+06   0.12553E+06       0.                0.

 REAL CONSTANT SET       76  ITEMS     7 TO    12
         0.              0.            1.5100          2.8800      0.        0.

 ELEMENT TYPE   72 IS MASS21         STRUCTURAL MASS
  KEYOPT(1-12)=    0  0  2     0  0  0     0  0  0     0  0  0

 CURRENT NODAL DOF SET IS  UX    UY    UZ    ROTX  ROTY  ROTZ
  THREE-DIMENSIONAL MODEL

 REAL CONSTANT SET       77  ITEMS     1 TO     6
   138.94              0.              0.              0.        0.

 REAL CONSTANT SET       78  ITEMS     1 TO     6
   137.54              0.              0.              0.        0.

 REAL CONSTANT SET       79  ITEMS     1 TO     6
   82.321              0.              0.              0.        0.

 REAL CONSTANT SET       80  ITEMS     1 TO     6
   99.604              0.              0.              0.        0.

 REAL CONSTANT SET       81  ITEMS     1 TO     6
   88.439              0.              0.              0.        0.

 NODE        1  NCS=    0  X,Y,Z=         0.          574.00          0.

 NODE        2  NCS=    0  X,Y,Z=   0.39600          574.00    -0.39600

 NODE        3  NCS=    0  X,Y,Z=    1.5740          574.00    -0.88400

 NODE        4  NCS=    0  X,Y,Z=    3.7960          574.00    -0.88400

 NODE        5  NCS=    0  X,Y,Z=    4.9050          574.00    -0.88400

 NODE     9001  NCS=    0  X,Y,Z=    5.0610          574.04    -0.88400

 NODE     9002  NCS=    0  X,Y,Z=    5.1750          574.16    -0.88400

 NODE        6  NCS=    0  X,Y,Z=    5.2170          574.31    -0.88400

 NODE        7  NCS=    0  X,Y,Z=    5.2170          574.50    -0.88400

 NODE     9003  NCS=    0  X,Y,Z=    5.2170          577.57    -0.88400

 NODE     9004  NCS=    0  X,Y,Z=    5.2170          580.63    -0.88400

 NODE        9  NCS=    0  X,Y,Z=    5.2170          583.70    -0.88400

 NODE       10  NCS=    0  X,Y,Z=    5.2170          584.23    -0.88400

 NODE     9005  NCS=    0  X,Y,Z=    5.2170          586.83    -0.88400

 NODE     9006  NCS=    0  X,Y,Z=    5.2170          589.44    -0.88400

 NODE       11  NCS=    0  X,Y,Z=    5.2170          592.04    -0.88400

 NODE       12  NCS=    0  X,Y,Z=    5.2170          592.94    -0.88400

 NODE     9007  NCS=    0  X,Y,Z=    5.2590          593.09    -0.88400

 NODE     9008  NCS=    0  X,Y,Z=    5.3730          593.21    -0.88400

 NODE       13  NCS=    0  X,Y,Z=    5.5300          593.25    -0.88400

 NODE       14  NCS=    0  X,Y,Z=    5.7590          593.25    -0.88400

 NODE       15  NCS=    0  X,Y,Z=    6.2590          593.25    -0.88400

 NODE       16  NCS=    0  X,Y,Z=    7.4230          593.25    -0.88400

 NODE       17  NCS=    0  X,Y,Z=    7.6430          593.25    -0.79200

 NODE       18  NCS=    0  X,Y,Z=    8.0510          593.25    -0.38400

 NODE       19  NCS=    0  X,Y,Z=    8.6290          593.25     0.19400

 NODE       20  NCS=    0  X,Y,Z=    10.158          593.25      1.7230

 NODE       21  NCS=    0  X,Y,Z=    10.379          593.56      1.9440

 NODE     9009  NCS=    0  X,Y,Z=    10.379          596.90      1.9440

 NODE     9010  NCS=    0  X,Y,Z=    10.379          600.24      1.9440
```

NODE	22	KCS=	0	X,Y,Z=	10.379	603.58	1.9440
NODE	23	KCS=	0	X,Y,Z=	10.379	604.29	1.9440
NODE	24	KCS=	0	X,Y,Z=	10.379	605.65	1.9440
NODE	9011	KCS=	0	X,Y,Z=	10.379	608.44	1.9440
NODE	9012	KCS=	0	X,Y,Z=	10.379	611.22	1.9440
NODE	25	KCS=	0	X,Y,Z=	10.379	614.00	1.9440
NODE	26	KCS=	0	X,Y,Z=	10.379	614.79	1.9440
NODE	9013	KCS=	0	X,Y,Z=	10.379	617.74	1.9440
NODE	9014	KCS=	0	X,Y,Z=	10.379	620.69	1.9440
NODE	27	KCS=	0	X,Y,Z=	10.379	623.64	1.9440
NODE	28	KCS=	0	X,Y,Z=	10.379	624.75	1.9440
NODE	29	KCS=	0	X,Y,Z=	10.379	626.41	1.9440
NODE	9015	KCS=	0	X,Y,Z=	10.379	629.53	1.9440
NODE	9016	KCS=	0	X,Y,Z=	10.379	632.64	1.9440
NODE	30	KCS=	0	X,Y,Z=	10.379	635.75	1.9440
NODE	31	KCS=	0	X,Y,Z=	10.379	635.83	1.9440
NODE	32	KCS=	0	X,Y,Z=	10.379	636.05	2.0350
NODE	35	KCS=	0	X,Y,Z=	10.379	636.14	2.2560
NODE	37	KCS=	0	X,Y,Z=	10.379	636.14	2.9590
NODE	9017	KCS=	0	X,Y,Z=	10.379	636.14	5.6570
NODE	9018	KCS=	0	X,Y,Z=	10.379	636.14	8.3550
NODE	38	KCS=	0	X,Y,Z=	10.379	636.14	11.053
NODE	39	KCS=	0	X,Y,Z=	10.379	636.14	11.918
NODE	9019	KCS=	0	X,Y,Z=	10.379	636.14	14.756
NODE	40	KCS=	0	X,Y,Z=	10.379	636.14	17.595
NODE	41	KCS=	0	X,Y,Z=	10.379	636.14	20.048
NODE	43	KCS=	0	X,Y,Z=	10.692	636.14	20.360
NODE	44	KCS=	0	X,Y,Z=	10.812	636.14	20.360
NODE	45	KCS=	0	X,Y,Z=	11.129	636.14	20.360
NODE	9020	KCS=	0	X,Y,Z=	13.507	636.14	20.360
NODE	46	KCS=	0	X,Y,Z=	15.885	636.14	20.360
NODE	47	KCS=	0	X,Y,Z=	16.135	636.14	20.360
NODE	48	KCS=	0	X,Y,Z=	16.385	636.14	20.360
NODE	49	KCS=	0	X,Y,Z=	16.801	636.14	20.360
NODE	50	KCS=	0	X,Y,Z=	17.218	636.14	20.360
NODE	51	KCS=	0	X,Y,Z=	17.343	636.14	20.360
NODE	52	KCS=	0	X,Y,Z=	17.801	636.14	20.360
NODE	53	KCS=	0	X,Y,Z=	19.822	636.14	20.360
NODE	54	KCS=	0	X,Y,Z=	22.801	636.14	20.360
NODE	55	KCS=	0	X,Y,Z=	22.864	636.14	20.360
NODE	56	KCS=	0	X,Y,Z=	23.176	636.14	20.673
NODE	57	KCS=	0	X,Y,Z=	23.176	636.14	20.860
NODE	58	KCS=	0	X,Y,Z=	23.176	636.14	21.027
NODE	59	KCS=	0	X,Y,Z=	23.176	636.14	21.277
NODE	60	KCS=	0	X,Y,Z=	23.176	636.14	21.527
NODE	61	KCS=	0	X,Y,Z=	23.176	636.14	21.777
NODE	62	KCS=	0	X,Y,Z=	23.176	636.14	21.798
NODE	63	KCS=	0	X,Y,Z=	22.864	636.14	22.110
NODE	64	KCS=	0	X,Y,Z=	21.947	636.14	22.110
NODE	65	KCS=	0	X,Y,Z=	21.530	636.14	22.110
NODE	66	KCS=	0	X,Y,Z=	21.113	636.14	22.110

NODE	67	KCS=	0	X,Y,Z=	20.759	636.14	22.110
NODE	68	KCS=	0	X,Y,Z=	20.509	636.14	22.110
NODE	69	KCS=	0	X,Y,Z=	20.259	636.14	22.110
NODE	70	KCS=	0	X,Y,Z=	20.071	636.14	22.110
NODE	71	KCS=	0	X,Y,Z=	19.654	636.14	22.110
NODE	72	KCS=	0	X,Y,Z=	19.237	636.14	22.110
NODE	73	KCS=	0	X,Y,Z=	17.383	636.14	22.110
NODE	74	KCS=	0	X,Y,Z=	17.175	636.14	22.110
NODE	75	KCS=	0	X,Y,Z=	16.758	636.14	22.110
NODE	76	KCS=	0	X,Y,Z=	16.341	636.14	22.110
NODE	77	KCS=	0	X,Y,Z=	16.133	636.14	22.110
NODE	78	KCS=	0	X,Y,Z=	15.799	636.14	22.110
NODE	9021	KCS=	0	X,Y,Z=	13.413	636.14	22.110
NODE	79	KCS=	0	X,Y,Z=	11.028	636.14	22.110
NODE	80	KCS=	0	X,Y,Z=	10.121	636.14	22.110
NODE	81	KCS=	0	X,Y,Z=	9.8970	636.14	22.110
NODE	82	KCS=	0	X,Y,Z=	9.5850	636.14	21.798
NODE	9022	KCS=	0	X,Y,Z=	9.5850	636.14	19.663
NODE	83	KCS=	0	X,Y,Z=	9.5850	636.14	17.527
NODE	84	KCS=	0	X,Y,Z=	9.5850	636.14	17.333
NODE	85	KCS=	0	X,Y,Z=	9.5850	636.14	17.194
NODE	86	KCS=	0	X,Y,Z=	9.2310	635.79	16.694
NODE	87	KCS=	0	X,Y,Z=	8.7600	635.32	16.694
NODE	47	KCS=	0	X,Y,Z=	16.135	636.14	20.360
NODE	91	KCS=	0	X,Y,Z=	16.135	636.39	20.360
NODE	92	KCS=	0	X,Y,Z=	16.135	637.33	20.360
NODE	93	KCS=	0	X,Y,Z=	16.135	637.64	20.673
NODE	94	KCS=	0	X,Y,Z=	16.135	637.64	20.944
NODE	95	KCS=	0	X,Y,Z=	16.135	637.64	21.361
NODE	96	KCS=	0	X,Y,Z=	16.135	637.64	21.778
NODE	97	KCS=	0	X,Y,Z=	16.135	637.64	21.799
NODE	98	KCS=	0	X,Y,Z=	16.135	637.33	22.111
NODE	100	KCS=	0	X,Y,Z=	16.135	636.96	22.111
NODE	101	KCS=	0	X,Y,Z=	16.135	636.71	22.111
NODE	102	KCS=	0	X,Y,Z=	16.135	636.39	22.111
NODE	77	KCS=	0	X,Y,Z=	16.135	636.14	22.111
NODE	59	KCS=	0	X,Y,Z=	23.176	636.14	21.277
NODE	103	KCS=	0	X,Y,Z=	22.866	636.14	21.277
NODE	104	KCS=	0	X,Y,Z=	22.092	636.14	21.277
NODE	105	KCS=	0	X,Y,Z=	21.842	636.14	21.277
NODE	106	KCS=	0	X,Y,Z=	21.592	636.14	21.277
NODE	107	KCS=	0	X,Y,Z=	20.634	636.14	21.277
NODE	109	KCS=	0	X,Y,Z=	20.509	636.14	21.402
NODE	111	KCS=	0	X,Y,Z=	20.509	636.14	21.683
NODE	112	KCS=	0	X,Y,Z=	20.509	636.14	21.801
NODE	68	KCS=	0	X,Y,Z=	20.509	636.14	22.111
NODE	101	KCS=	0	X,Y,Z=	16.135	636.71	22.111
NODE	113	KCS=	0	X,Y,Z=	16.135	636.71	22.611
NODE	114	KCS=	0	X,Y,Z=	16.135	636.71	22.96
NODE	115	KCS=	0	X,Y,Z=	16.135	636.71	23.31

```
NODE     116  NCS=   0  X,Y,Z=  16.135      636.71      25.840
NODE     118  NCS=   0  X,Y,Z=  16.135      636.89      24.027
NODE    9023  NCS=   0  X,Y,Z=  16.135      639.27      24.027
NODE     120  NCS=   0  X,Y,Z=  16.135      641.65      24.027
NODE     122  NCS=   0  X,Y,Z=  16.135      641.84      24.214
NODE     124  NCS=   0  X,Y,Z=  16.135      641.84      24.567
NODE     125  NCS=   0  X,Y,Z=  16.135      641.84      25.411
NODE     127  NCS=   0  X,Y,Z=  16.135      641.65      25.598
NODE     129  NCS=   0  X,Y,Z=  16.135      639.51      25.598
NODE    9024  NCS=   0  X,Y,Z=  16.135      637.97      25.598
NODE     130  NCS=   0  X,Y,Z=  16.135      636.42      25.598
NODE      65  NCS=   0  X,Y,Z=  21.530      636.14      22.110
NODE     131  NCS=   0  X,Y,Z=  21.530      636.41      22.110
NODE     132  NCS=   0  X,Y,Z=  21.530      636.69      22.110
NODE      71  NCS=   0  X,Y,Z=  19.654      636.14      22.110
NODE     133  NCS=   0  X,Y,Z=  19.654      636.41      22.110
NODE     134  NCS=   0  X,Y,Z=  19.654      636.69      22.110
NODE    1001  NCS=   0  X,Y,Z=      0.      574.00          0.
NODE    1009  NCS=   0  X,Y,Z=  5.2170      583.70     -0.88400
NODE    1010  NCS=   0  X,Y,Z=  5.2170      584.23     -0.88400
NODE    1014  NCS=   0  X,Y,Z=  5.7590      593.25     -0.88400
NODE    1015  NCS=   0  X,Y,Z=  6.2590      593.25     -0.88400
NODE    1023  NCS=   0  X,Y,Z=  10.379      604.29      1.9440
NODE    1028  NCS=   0  X,Y,Z=  10.379      624.75      1.9440
NODE    1029  NCS=   0  X,Y,Z=  10.379      626.41      1.9440
NODE    1037  NCS=   0  X,Y,Z=  10.379      636.14      2.9590
NODE    1039  NCS=   0  X,Y,Z=  10.379      636.14      11.918
NODE    1044  NCS=   0  X,Y,Z=  10.812      636.14      20.360
NODE    1045  NCS=   0  X,Y,Z=  11.129      636.14      20.360
NODE    1052  NCS=   0  X,Y,Z=  17.801      636.14      20.360
NODE    1053  NCS=   0  X,Y,Z=  19.822      636.14      20.360
NODE    1054  NCS=   0  X,Y,Z=  22.801      636.14      20.360
NODE    1057  NCS=   0  X,Y,Z=  23.176      636.14      20.660
NODE    1061  NCS=   0  X,Y,Z=  23.176      636.14      21.777
NODE    1073  NCS=   0  X,Y,Z=  17.383      636.14      22.110
NODE    1078  NCS=   0  X,Y,Z=  15.799      636.14      22.110
NODE    1079  NCS=   0  X,Y,Z=  11.028      636.14      22.110
NODE    1087  NCS=   0  X,Y,Z=  8.7600      635.32      16.694
NODE    1124  NCS=   0  X,Y,Z=  16.135      641.84      24.567
NODE    1129  NCS=   0  X,Y,Z=  16.135      639.51      25.598
NODE    1130  NCS=   0  X,Y,Z=  16.135      636.42      25.598
NODE    1131  NCS=   0  X,Y,Z=  21.530      636.41      22.110
NODE    1133  NCS=   0  X,Y,Z=  19.654      636.41      22.110
ELEMENT TYPE SET TO      1
REAL CONSTANT NUMBER=     11
MATERIAL NUMBER SET TO     1
ELEMENT      1      1      2      0
ELEMENT TYPE SET TO      2
REAL CONSTANT NUMBER=    211
ELEMENT      2      2      3      1
ELEMENT TYPE SET TO      1
```



```
REAL CONSTANT NUMBER=     11
ELEMENT      3      3      4      0
ELEMENT      4      4      5      0
ELEMENT TYPE SET TO      2
REAL CONSTANT NUMBER=     21
ELEMENT      5      5   9001      4
ELEMENT      6   9001   9002      4
ELEMENT      7   9002      6      4
ELEMENT TYPE SET TO      1
REAL CONSTANT NUMBER=     11
ELEMENT      8      6      7      0
ELEMENT      9      7   9003      0
ELEMENT     10   9003   9004      0
ELEMENT     11   9004      9      0
ELEMENT     12      9     10      0
ELEMENT     13     10   9005      0
ELEMENT     14   9005   9006      0
ELEMENT     15   9006     11      0
ELEMENT     16     11     12      0
ELEMENT TYPE SET TO      2
REAL CONSTANT NUMBER=     21
ELEMENT     17     12   9007     11
ELEMENT     18   9007   9008     11
ELEMENT     19   9008     13     11
ELEMENT TYPE SET TO      1
REAL CONSTANT NUMBER=     11
ELEMENT     20     13     14      0
ELEMENT     21     14     15      0
ELEMENT     22     15     16      0
ELEMENT TYPE SET TO      2
REAL CONSTANT NUMBER=     21
ELEMENT     23     16     17     15
ELEMENT TYPE SET TO      1
REAL CONSTANT NUMBER=     11
ELEMENT     24     17     18      0
ELEMENT     25     18     19      0
ELEMENT     26     19     20      0
ELEMENT TYPE SET TO      2
REAL CONSTANT NUMBER=     21
ELEMENT     27     20     21     19
ELEMENT TYPE SET TO      1
REAL CONSTANT NUMBER=     11
ELEMENT     28     21   9009      0
ELEMENT     29   9009   9010      0
ELEMENT     30   9010     22      0
ELEMENT     31     22     23      0
ELEMENT     32     23     24      0
ELEMENT     33     24   9011      0
ELEMENT     34   9011   9012      0
ELEMENT     35   9012     25      0
```

```
ELEMENT     36      25      28       0
ELEMENT     37      26    9013       0
ELEMENT     38    9013    9014       0
ELEMENT     39    9014      27       0
ELEMENT     40      27      28       0
ELEMENT     41      28      29       0
ELEMENT     42      29    9015       0
ELEMENT     43    9015    9016       0
ELEMENT     44    9016      30       0
ELEMENT     45      30      31       0
ELEMENT TYPE SET TO      2
REAL CONSTANT NUMBER=     21
ELEMENT     46      31      32      30
ELEMENT     47      32      35      30
ELEMENT TYPE SET TO      1
REAL CONSTANT NUMBER=     11
ELEMENT     48      35      37       0
ELEMENT     49      37    9017       0
ELEMENT     50    9017    9018       0
ELEMENT     51    9018      38       0
ELEMENT     52      38      39       0
ELEMENT     53      39    9019       0
ELEMENT     54    9019      40       0
ELEMENT     55      40      41       0
ELEMENT TYPE SET TO      2
REAL CONSTANT NUMBER=     21
ELEMENT     56      41      43      40
ELEMENT TYPE SET TO      1
REAL CONSTANT NUMBER=     11
ELEMENT     57      43      44       0
ELEMENT     58      44      45       0
ELEMENT     59      45    9020       0
ELEMENT     60    9020      46       0
ELEMENT     61      46      47       0
ELEMENT     62      47      48       0
ELEMENT TYPE SET TO      1
REAL CONSTANT NUMBER=     11
MATERIAL NUMBER SET TO     2
ELEMENT     63      48      49       0
ELEMENT     64      49      50       0
ELEMENT TYPE SET TO      1
REAL CONSTANT NUMBER=     11
MATERIAL NUMBER SET TO     1
ELEMENT     65      50      51       0
ELEMENT     66      51      52       0
ELEMENT     67      52      53       0
ELEMENT     68      53      54       0
ELEMENT     69      54      55       0
ELEMENT TYPE SET TO      2
REAL CONSTANT NUMBER=     21
ELEMENT     70      55      56      54
```



```
ELEMENT TYPE SET TO      1
REAL CONSTANT NUMBER=     11
ELEMENT     71      56      57       0
ELEMENT     72      57      58       0
ELEMENT     73      58      59       0
ELEMENT     74      59      60       0
ELEMENT     75      60      61       0
ELEMENT     76      61      62       0
ELEMENT TYPE SET TO      2
REAL CONSTANT NUMBER=     21
ELEMENT     77      62      63      61
ELEMENT TYPE SET TO      1
REAL CONSTANT NUMBER=     11
ELEMENT     78      63      64       0
ELEMENT TYPE SET TO      1
REAL CONSTANT NUMBER=     11
MATERIAL NUMBER SET TO     2
ELEMENT     79      64      65       0
ELEMENT     80      65      66       0
ELEMENT TYPE SET TO      1
REAL CONSTANT NUMBER=     11
MATERIAL NUMBER SET TO     1
ELEMENT     81      66      67       0
ELEMENT     82      67      68       0
ELEMENT     83      68      69       0
ELEMENT     84      69      70       0
ELEMENT TYPE SET TO      1
REAL CONSTANT NUMBER=     11
MATERIAL NUMBER SET TO     2
ELEMENT     85      70      71       0
ELEMENT     86      71      72       0
ELEMENT TYPE SET TO      1
REAL CONSTANT NUMBER=     11
MATERIAL NUMBER SET TO     1
ELEMENT     87      72      73       0
ELEMENT     88      73      74       0
MATERIAL NUMBER SET TO     2
ELEMENT     89      74      75       0
ELEMENT     90      75      76       0
MATERIAL NUMBER SET TO     1
ELEMENT     91      76      77       0
ELEMENT     92      77      78       0
ELEMENT     93      78    9021       0
ELEMENT     94    9021      79       0
ELEMENT     95      79      80       0
ELEMENT     96      80      81       0
ELEMENT TYPE SET TO      2
REAL CONSTANT NUMBER=     21
ELEMENT     97      81      82      80
ELEMENT TYPE SET TO      1
```

```
 REAL CONSTANT NUMBER=     11
 ELEMENT     98     82   9022      0
 ELEMENT     99   9022     83      0
 ELEMENT    100     83     84      0
 ELEMENT    101     84     85      0
 ELEMENT TYPE SET TO      2
 REAL CONSTANT NUMBER=    212
 ELEMENT    102     85     86     84
 ELEMENT TYPE SET TO      1
 REAL CONSTANT NUMBER=     11
 ELEMENT    103     86     87      0
 ELEMENT    104     47     91      0
 ELEMENT    105     91     92      0
 ELEMENT TYPE SET TO      2
 REAL CONSTANT NUMBER=    213
 ELEMENT    106     92     93     91
 ELEMENT TYPE SET TO      1
 REAL CONSTANT NUMBER=     11
 ELEMENT    107     93     94      0
 MATERIAL NUMBER SET TO    2
 ELEMENT    108     94     95      0
 ELEMENT    109     95     96      0
 MATERIAL NUMBER SET TO    1
 ELEMENT    110     96     97      0
 ELEMENT TYPE SET TO      2
 REAL CONSTANT NUMBER=     21
 ELEMENT    111     97     98     96
 ELEMENT TYPE SET TO      1
 REAL CONSTANT NUMBER=     11
 ELEMENT    112     98    100      0
 ELEMENT    113    100    101      0
 ELEMENT    114    101    102      0
 ELEMENT    115    102     77      0
 ELEMENT TYPE SET TO      1
 MATERIAL NUMBER SET TO    3
 REAL CONSTANT NUMBER=     13
 ELEMENT    116     59    103      0
 ELEMENT    117    103    104      0
 MATERIAL NUMBER SET TO    4
 ELEMENT    118    104    105      0
 ELEMENT    119    105    106      0
 MATERIAL NUMBER SET TO    3
 ELEMENT    120    106    107      0
 ELEMENT TYPE SET TO      2
 MATERIAL NUMBER SET TO    3
 REAL CONSTANT NUMBER=     23
 ELEMENT    121    107    109    106
 ELEMENT TYPE SET TO      1
 MATERIAL NUMBER SET TO    3
 REAL CONSTANT NUMBER=     13
 ELEMENT    122    109    111      0
```



```
 ELEMENT    123    111    112      0
 ELEMENT TYPE SET TO      1
 MATERIAL NUMBER SET TO    5
 REAL CONSTANT NUMBER=     15
 ELEMENT    124    112     68      0
 ELEMENT    125    101    113      0
 MATERIAL NUMBER SET TO    6
 ELEMENT    126    113    114      0
 ELEMENT    127    114    115      0
 MATERIAL NUMBER SET TO    5
 ELEMENT    128    115    116      0
 ELEMENT TYPE SET TO      2
 REAL CONSTANT NUMBER=     25
 ELEMENT    129    116    116    115
 ELEMENT TYPE SET TO      1
 MATERIAL NUMBER SET TO    5
 REAL CONSTANT NUMBER=     15
 ELEMENT    130    118   9023      0
 ELEMENT    131   9023    120      0
 ELEMENT TYPE SET TO      2
 REAL CONSTANT NUMBER=     25
 ELEMENT    132    120    122   9023
 ELEMENT TYPE SET TO      1
 MATERIAL NUMBER SET TO    5
 REAL CONSTANT NUMBER=     15
 ELEMENT    133    122    124      0
 ELEMENT    134    124    125      0
 ELEMENT TYPE SET TO      2
 REAL CONSTANT NUMBER=     25
 ELEMENT    135    125    127    124
 ELEMENT TYPE SET TO      1
 MATERIAL NUMBER SET TO    5
 REAL CONSTANT NUMBER=     15
 ELEMENT    136    127    129      0
 ELEMENT    137    129   9024      0
 ELEMENT    138   9024    130      0
 MATERIAL NUMBER SET TO    1
 ELEMENT TYPE SET TO      1
 REAL CONSTANT NUMBER=     11
 ELEMENT    139     65    131      0
 ELEMENT    140    131    132      0
 ELEMENT    141     71    133      0
 ELEMENT    142    133    134      0
 REAL CONSTANT NUMBER=     58
 ELEMENT TYPE SET TO      3
 ELEMENT    143      1   1001
 ELEMENT TYPE SET TO      4
 ELEMENT    144      1   1001
 ELEMENT TYPE SET TO      5
 ELEMENT    145      1   1001
```

```
 REAL CONSTANT NUMBER=      59
 ELEMENT TYPE SET TO        6
 ELEMENT     146        1   1001
 ELEMENT TYPE SET TO        7
 ELEMENT     147        1   1001
 ELEMENT TYPE SET TO        8
 ELEMENT     148        1   1001
 REAL CONSTANT NUMBER=      51
 ELEMENT TYPE SET TO        3
 ELEMENT     149        9   1009
 ELEMENT TYPE SET TO        5
 ELEMENT     150       10   1010
 ELEMENT TYPE SET TO        4
 ELEMENT     151       15   1015
 REAL CONSTANT NUMBER=      52
 ELEMENT TYPE SET TO        4
 ELEMENT     152       14   1014
 REAL CONSTANT NUMBER=      51
 ELEMENT TYPE SET TO        3
 ELEMENT     153       23   1023
 ELEMENT TYPE SET TO        5
 ELEMENT     154       28   1028
 REAL CONSTANT NUMBER=      53
 ELEMENT TYPE SET TO        4
 ELEMENT     155       37   1037
 ELEMENT TYPE SET TO        3
 ELEMENT     156       39   1039
 REAL CONSTANT NUMBER=      51
 ELEMENT TYPE SET TO        4
 ELEMENT     157       44   1044
 ELEMENT TYPE SET TO        5
 ELEMENT     158       45   1045
 REAL CONSTANT NUMBER=      54
 ELEMENT TYPE SET TO        4
 ELEMENT     159       53   1053
 REAL CONSTANT NUMBER=      55
 ELEMENT     160       79   1079
 REAL CONSTANT NUMBER=      51
 ELEMENT TYPE SET TO        3
 ELEMENT     161      124   1124
 ELEMENT TYPE SET TO        5
 ELEMENT     162      129   1129
 ELEMENT TYPE SET TO        4
 ELEMENT     163       52   1052
 ELEMENT TYPE SET TO        5
 ELEMENT     164       54   1054
 ELEMENT TYPE SET TO        3
 ELEMENT     165       57   1057
 REAL CONSTANT NUMBER=      56
 ELEMENT TYPE SET TO        4
 ELEMENT     166       78   1078
```



```
 ELEMENT TYPE SET TO        5
 REAL CONSTANT NUMBER=      51
 ELEMENT     167       73   1073
 REAL CONSTANT NUMBER=      57
 ELEMENT TYPE SET TO        4
 ELEMENT     168       61   1061
 REAL CONSTANT NUMBER=      51
 ELEMENT TYPE SET TO        3
 ELEMENT     169      131   1131
 ELEMENT TYPE SET TO        5
 ELEMENT     170      131   1131
 ELEMENT TYPE SET TO        3
 ELEMENT     171      133   1133
 ELEMENT TYPE SET TO        5
 ELEMENT     172      133   1133
 REAL CONSTANT NUMBER=      58
 ELEMENT TYPE SET TO        3
 ELEMENT     173       87   1087
 ELEMENT TYPE SET TO        4
 ELEMENT     174       87   1087
 ELEMENT TYPE SET TO        5
 ELEMENT     175       87   1087
 REAL CONSTANT NUMBER=      59
 ELEMENT TYPE SET TO        6
 ELEMENT     176       87   1087
 ELEMENT TYPE SET TO        7
 ELEMENT     177       87   1087
 ELEMENT TYPE SET TO        8
 ELEMENT     178       87   1087
 REAL CONSTANT NUMBER=      58
 ELEMENT TYPE SET TO        3
 ELEMENT     179      130   1130
 ELEMENT TYPE SET TO        4
 ELEMENT     180      130   1130
 ELEMENT TYPE SET TO        5
 ELEMENT     181      130   1130
 REAL CONSTANT NUMBER=      59
 ELEMENT TYPE SET TO        6
 ELEMENT     182      130   1130
 ELEMENT TYPE SET TO        7
 ELEMENT     183      130   1130
 ELEMENT TYPE SET TO        8
 ELEMENT     184      130   1130
 ELEMENT TYPE SET TO       30
 REAL CONSTANT NUMBER=      31
 ELEMENT     185        9
 ELEMENT     186       10
 ELEMENT     187       15
 ELEMENT     188       23
 ELEMENT     189       28
```

```
 ELEMENT     190      44
 ELEMENT     191      45
 ELEMENT     192      52
 ELEMENT     193      54
 ELEMENT     194      57
 ELEMENT     195      73
 ELEMENT     196     114
 ELEMENT     197     124
 ELEMENT     198     129
 REAL CONSTANT NUMBER=      32
 ELEMENT     199      14
 ELEMENT     200      79
 REAL CONSTANT NUMBER=      33
 ELEMENT     201      37
 REAL CONSTANT NUMBER=      34
 ELEMENT     202      39
 REAL CONSTANT NUMBER=      35
 ELEMENT     203      49
 ELEMENT     204      75
 ELEMENT     205      95
 REAL CONSTANT NUMBER=      36
 ELEMENT     206      53
 REAL CONSTANT NUMBER=      37
 ELEMENT     207      61
 REAL CONSTANT NUMBER=      38
 ELEMENT     208      65
 ELEMENT     209      71
 REAL CONSTANT NUMBER=      39
 ELEMENT     210      78
 REAL CONSTANT NUMBER=      40
 ELEMENT     211     105
 REAL CONSTANT NUMBER=      41
 ELEMENT     212     131
 ELEMENT     213     133
 REAL CONSTANT NUMBER=      42
 ELEMENT     214     132
 ELEMENT     215     134
 NODE      301  NCS=    0  X,Y,Z=      0.       565.00          0.
 NODE      302  NCS=    0  X,Y,Z=      0.       568.00          0.
 NODE      303  NCS=    0  X,Y,Z=      0.       571.00          0.
 NODE      304  NCS=    0  X,Y,Z=      0.       574.00          0.
 NODE      305  NCS=    0  X,Y,Z=      0.       577.83          0.
 NODE      306  NCS=    0  X,Y,Z=      0.       590.00          0.
 NODE      307  NCS=    0  X,Y,Z=      0.       595.50          0.
 NODE      308  NCS=    0  X,Y,Z=      0.       604.00          0.
 NODE      309  NCS=    0  X,Y,Z=      0.       609.50          0.
 NODE      310  NCS=    0  X,Y,Z=      0.       624.50          0.
 NODE      311  NCS=    0  X,Y,Z=      0.       629.58          0.
 NODE      312  NCS=    0  X,Y,Z=      0.       638.33          0.
 NODE      313  NCS=    0  X,Y,Z=      0.       647.00          0.
 ELEMENT TYPE SET TO      71
```



```
 MATERIAL NUMBER SET TO     71
 REAL CONSTANT NUMBER=      71
 ELEMENT     216     301     302       0
 ELEMENT     217     302     303       0
 ELEMENT     218     303     304       0
 REAL CONSTANT NUMBER=      72
 ELEMENT     219     304     305       0
 REAL CONSTANT NUMBER=      73
 ELEMENT     220     305     306       0
 REAL CONSTANT NUMBER=      74
 ELEMENT     221     306     307       0
 ELEMENT     222     307     308       0
 REAL CONSTANT NUMBER=      75
 ELEMENT     223     308     309       0
 ELEMENT     224     309     310       0
 REAL CONSTANT NUMBER=      76
 ELEMENT     225     310     311       0
 ELEMENT     226     311     312       0
 ELEMENT     227     312     313       0
 ELEMENT TYPE SET TO      72
 REAL CONSTANT NUMBER=      77
 ELEMENT     228     304
 REAL CONSTANT NUMBER=      78
 ELEMENT     229     306
 REAL CONSTANT NUMBER=      79
 ELEMENT     230     308
 REAL CONSTANT NUMBER=      80
 ELEMENT     231     310
 REAL CONSTANT NUMBER=      81
 ELEMENT     232     313

 COUPLED SET=      1  DIRECTION= UX     TOTAL NODES=      2
 NODES ADDED  =     304    1001
 MAXIMUM COUPLED SET NUMBER=      1

 COUPLED SET=      2  DIRECTION= UX     TOTAL NODES=      2
 NODES ADDED  =     309    1087
 MAXIMUM COUPLED SET NUMBER=      2

 COUPLED SET=      3  DIRECTION= UX     TOTAL NODES=      7
 NODES ADDED  =     312    1037    1039    1044    1045    1053    1079
 MAXIMUM COUPLED SET NUMBER=      3

 *** WARNING ***                         CP=       8.720   TIME= 00:18:57
 Coupled set 3 already contains node 312.
  Node 312 will not be added to the set.

 COUPLED SET=      3  DIRECTION= UX     TOTAL NODES=     13
 NODES ADDED  =    1124    1129    1052    1054    1057    1078
 MAXIMUM COUPLED SET NUMBER=      3

 *** WARNING ***                         CP=       8.730   TIME= 00:18:57
 Coupled set 3 already contains node 312.
  Node 312 will not be added to the set.

 COUPLED SET=      3  DIRECTION= UX     TOTAL NODES=     18
 NODES ADDED  =    1073    1061    1131    1133    1130
 MAXIMUM COUPLED SET NUMBER=      3

 COUPLED SET=      4  DIRECTION= UX     TOTAL NODES=      3
 NODES ADDED  =     306    1009    1010
 MAXIMUM COUPLED SET NUMBER=      4

 COUPLED SET=      5  DIRECTION= UX     TOTAL NODES=      3
 NODES ADDED  =     307    1015    1014
 MAXIMUM COUPLED SET NUMBER=      5

 COUPLED SET=      6  DIRECTION= UX     TOTAL NODES=      2
 NODES ADDED  =     308    1023
 MAXIMUM COUPLED SET NUMBER=      6
```

```
COUPLED SET=     7  DIRECTION= UX    TOTAL NODES=     2
NODES ADDED  =     310    1028
MAXIMUM COUPLED SET NUMBER=     7

GENERATE FROM SET    1  COUPLED SETS IN DIRECTIONS UY   UZ   ROTX ROTY ROTZ

COUPLED SET=     8  DIRECTION= UY    TOTAL NODES=     2

COUPLED SET=     9  DIRECTION= UZ    TOTAL NODES=     2

COUPLED SET=    10  DIRECTION= ROTX  TOTAL NODES=     2

COUPLED SET=    11  DIRECTION= ROTY  TOTAL NODES=     2

COUPLED SET=    12  DIRECTION= ROTZ  TOTAL NODES=     2

MAXIMUM COUPLED SET NUMBER=    12

GENERATE FROM SET    2  COUPLED SETS IN DIRECTIONS UY   UZ   ROTX ROTY ROTZ

COUPLED SET=    13  DIRECTION= UY    TOTAL NODES=     2

COUPLED SET=    14  DIRECTION= UZ    TOTAL NODES=     2

COUPLED SET=    15  DIRECTION= ROTX  TOTAL NODES=     2

COUPLED SET=    16  DIRECTION= ROTY  TOTAL NODES=     2

COUPLED SET=    17  DIRECTION= ROTZ  TOTAL NODES=     2

MAXIMUM COUPLED SET NUMBER=    17

GENERATE FROM SET    3  COUPLED SETS IN DIRECTIONS UY   UZ   ROTX ROTY ROTZ

COUPLED SET=    18  DIRECTION= UY    TOTAL NODES=    18

COUPLED SET=    19  DIRECTION= UZ    TOTAL NODES=    18

COUPLED SET=    20  DIRECTION= ROTX  TOTAL NODES=    18

COUPLED SET=    21  DIRECTION= ROTY  TOTAL NODES=    18

COUPLED SET=    22  DIRECTION= ROTZ  TOTAL NODES=    18

MAXIMUM COUPLED SET NUMBER=    22

GENERATE FROM SET    4  COUPLED SETS IN DIRECTIONS UY   UZ   ROTX ROTY ROTZ

COUPLED SET=    23  DIRECTION= UY    TOTAL NODES=     3

COUPLED SET=    24  DIRECTION= UZ    TOTAL NODES=     3

COUPLED SET=    25  DIRECTION= ROTX  TOTAL NODES=     3

COUPLED SET=    26  DIRECTION= ROTY  TOTAL NODES=     3

COUPLED SET=    27  DIRECTION= ROTZ  TOTAL NODES=     3

MAXIMUM COUPLED SET NUMBER=    27

GENERATE FROM SET    5  COUPLED SETS IN DIRECTIONS UY   UZ   ROTX ROTY ROTZ

COUPLED SET=    28  DIRECTION= UY    TOTAL NODES=     3

COUPLED SET=    29  DIRECTION= UZ    TOTAL NODES=     3

COUPLED SET=    30  DIRECTION= ROTX  TOTAL NODES=     3

COUPLED SET=    31  DIRECTION= ROTY  TOTAL NODES=     3

COUPLED SET=    32  DIRECTION= ROTZ  TOTAL NODES=     3

MAXIMUM COUPLED SET NUMBER=    32

GENERATE FROM SET    6  COUPLED SETS IN DIRECTIONS UY   UZ   ROTX ROTY ROTZ

COUPLED SET=    33  DIRECTION= UY    TOTAL NODES=     2

COUPLED SET=    34  DIRECTION= UZ    TOTAL NODES=     2

COUPLED SET=    35  DIRECTION= ROTX  TOTAL NODES=     2

COUPLED SET=    36  DIRECTION= ROTY  TOTAL NODES=     2

COUPLED SET=    37  DIRECTION= ROTZ  TOTAL NODES=     2

MAXIMUM COUPLED SET NUMBER=    37

GENERATE FROM SET    7  COUPLED SETS IN DIRECTIONS UY   UZ   ROTX ROTY ROTZ

COUPLED SET=    38  DIRECTION= UY    TOTAL NODES=     2

COUPLED SET=    39  DIRECTION= UZ    TOTAL NODES=     2

COUPLED SET=    40  DIRECTION= ROTX  TOTAL NODES=     2

COUPLED SET=    41  DIRECTION= ROTY  TOTAL NODES=     2

COUPLED SET=    42  DIRECTION= ROTZ  TOTAL NODES=     2

MAXIMUM COUPLED SET NUMBER=    42
```



```
SPECIFIED CONSTRAINT UX    FOR SELECTED NODES      301 TO      301 BY       1
REAL=          0.       IMAG=          0.
ADDITIONAL DOFS=  UY    UZ    ROTX  ROTY  ROTZ

USE LUMPED MASS MATRIX APPROXIMATION

ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2tfx.db
 FOR POSSIBLE RESUME FROM THIS POINT


***** ROUTINE COMPLETED *****  CP =          9.930


c*** Time History analysis for earthquake record (Taft)

/OUTPUT FILE= pb2tfx0

*------------------------------------------------------------------------------*
|                                                                              |
|                          ANSYS RUN COMPLETED                                 |
|                                                                              |
|------------------------------------------------------------------------------|
|                                                                              |
|              REV. 5.0                              SUN4SPARC                 |
|                                                                              |
|       CP TIME      (sec) =      19963.341       TIME  =  07:25:41            |
|       ELAPSED TIME (sec) =      25623.000       DATE  =  10/11/95            |
|                                                                              |
*------------------------------------------------------------------------------*
```

```
1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC     04:42:30  OCT 11, 1995 CP=  15439.920
FOR SUPPORT CALL                    PHONE                    FAX

 Time-history analysis of coupled system (pressurizer spray line)

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


         ***** TIME-HISTORY POSTPROCESSOR (POST26) *****

ALL POST26 SPECIFICATIONS ARE RESET TO INITIAL DEFAULTS

*** NOTE ***                                CP=  15439.920   TIME= 04:42:30
Unable to open default results file pb2tfx.rst
 Use FILE command to open a results file.

DATA FILE CHANGED TO FILE= pb2tfx.rdsp

MAXIMUM NUMBER OF VARIABLES= 15

VARIABLE  2  IS AT NODE    12  ITEM= U     COMP= X     NAME= UX

VARIABLE  3  IS AT NODE    12  ITEM= U     COMP= Y     NAME= UY

VARIABLE  4  IS AT NODE    12  ITEM= U     COMP= Z     NAME= UZ

VARIABLE  5  IS AT NODE    17  ITEM= U     COMP= X     NAME= UX

VARIABLE  6  IS AT NODE    17  ITEM= U     COMP= Y     NAME= UY

VARIABLE  7  IS AT NODE    17  ITEM= U     COMP= Z     NAME= UZ

VARIABLE  8  IS AT NODE    21  ITEM= U     COMP= X     NAME= UX

VARIABLE  9  IS AT NODE    21  ITEM= U     COMP= Z     NAME= UZ

VARIABLE 10  IS AT NODE  9010  ITEM= U     COMP= Z     NAME= UZ

VARIABLE 11  IS AT NODE    24  ITEM= U     COMP= Z     NAME= UZ

VARIABLE 12  IS AT NODE  9013  ITEM= U     COMP= Z     NAME= UZ

VARIABLE 13  IS AT NODE    28  ITEM= U     COMP= X     NAME= UX

VARIABLE 14  IS AT NODE    35  ITEM= U     COMP= X     NAME= UX

VARIABLE 15  IS AT NODE  9017  ITEM= U     COMP= X     NAME= UX

STORAGE COMPLETE FOR   2819 DATA POINTS

        SUMMARY OF VARIABLES STORED THIS STEP AND EXTREME VALUES
VARI TYPE     IDENTIFIERS     NAME    MINIMUM     AT TIME     MAXIMUM    AT TIME

   2 NSOL     12 UX           UX      -0.4135E-01  7.020      0.3934E-01  9.320
   3 NSOL     12 UY           UY      -0.2706E-02  5.920      0.2856E-02  14.04
   4 NSOL     12 UZ           UZ      -0.2755E-01  7.680      0.3481E-01  7.340
   5 NSOL     17 UX           UX      -0.4137E-01  7.020      0.4000E-01  9.320
   6 NSOL     17 UY           UY      -0.2665E-02  9.620      0.2987E-02  7.320
   7 NSOL     17 UZ           UZ      -0.4727E-01  7.000      0.4600E-01  7.360
   8 NSOL     21 UX           UX      -0.5078E-01  5.920      0.4778E-01  6.880
   9 NSOL     21 UZ           UZ      -0.7213E-01  7.020      0.6190E-01  6.660
  10 NSOL   9010 UZ           UZ      -0.7378E-01  7.020      0.6648E-01  6.680
  11 NSOL     24 UZ           UZ      -0.6719E-01  7.020      0.6255E-01  6.680
  12 NSOL   9013 UZ           UZ      -0.2273E-01  7.020      0.2243E-01  6.680
  13 NSOL     28 UX           UX      -0.1009      6.180      0.1013      9.060
  14 NSOL     35 UX           UX      -0.8483E-01  8.740      0.9736E-01  6.480
  15 NSOL   9017 UX           UX      -0.4817E-01  8.740      0.5581E-01  6.480

        POST26 SUMMARY OF VARIABLE EXTREME VALUES
VARI TYPE     IDENTIFIERS     NAME     MINIMUM     AT TIME     MAXIMUM    AT TIME

   2 NSOL     12 UX           UX      -0.4135E-01  7.020      0.3934E-01  9.320
   3 NSOL     12 UY           UY      -0.2706E-02  5.920      0.2856E-02  14.04
   4 NSOL     12 UZ           UZ      -0.2755E-01  7.680      0.3481E-01  7.340
   5 NSOL     17 UX           UX      -0.4137E-01  7.020      0.4000E-01  9.320
   6 NSOL     17 UY           UY      -0.2665E-02  9.620      0.2987E-02  7.320
   7 NSOL     17 UZ           UZ      -0.4727E-01  7.000      0.4600E-01  7.360
   8 NSOL     21 UX           UX      -0.5078E-01  5.920      0.4778E-01  6.880
   9 NSOL     21 UZ           UZ      -0.7213E-01  7.020      0.6190E-01  6.660
  10 NSOL   9010 UZ           UZ      -0.7378E-01  7.020      0.6648E-01  6.680
  11 NSOL     24 UZ           UZ      -0.6719E-01  7.020      0.6255E-01  6.680
  12 NSOL   9013 UZ           UZ      -0.2273E-01  7.020      0.2243E-01  6.680
  13 NSOL     28 UX           UX      -0.1009      6.180      0.1013      9.060
  14 NSOL     35 UX           UX      -0.8483E-01  8.740      0.9736E-01  6.480
  15 NSOL   9017 UX           UX      -0.4817E-01  8.740      0.5581E-01  6.480

ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2tfx.db
 FOR POSSIBLE RESUME FROM THIS POINT

***** ROUTINE COMPLETED *****  CP =     15445.730


*****  ANSYS SOLUTION ROUTINE  *****

PERFORM AN EXPANSION PASS
```



```
EXPAND   100 SOLUTIONS
 IN THE RANGE FROM       0.      TO  0.10000
 CALCULATE ELEMENT RESULTS AS WELL AS THE NODAL DOF SOLUTION

PRINT BASI ITEMS WITH A FREQUENCY OF NONE
  FOR ALL APPLICABLE ENTITIES

*****  ANSYS SOLVE    COMMAND  *****
1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC     04:42:49  OCT 11, 1995 CP=  15445.800
FOR SUPPORT CALL                    PHONE                    FAX

 Time-history analysis of coupled system (pressurizer spray line)

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**

                    S O L U T I O N   O P T I O N S

  PROBLEM DIMENSIONALITY. . . . . .3-D
  DEGREES OF FREEDOM. . . . . UX   UY   UZ   ROTX ROTY ROTZ
  ANALYSIS TYPE . . . . . .TRANSIENT
     SOLUTION METHOD. . . . . .REDUCED
     EXPANSION PASS . . . . . .ON

                    L O A D   S T E P   O P T I O N S

  LOAD STEP NUMBER. . . . . .  1
  NUMBER OF SOLUTIONS TO BE EXPANDED. . . . . .  100
     RANGE. . . . . .  0.     TO  0.10000
  ELEMENT RESULTS CALCULATION . . . . . .  ON
  PRINT OUTPUT CONTROLS
     ITEM      FREQUENCY    COMPONENT
     BASI      NONE
  DATABASE OUTPUT CONTROLS
     ITEM      FREQUENCY    COMPONENT
     NSOL      LAST


  *** ELEMENT RESULT CALCULATION TIMES
 TYPE  NUMBER    ENAME      TOTAL CP  AVE CP

    1     120  PIPE16         0.692    0.006
    2      22  PIPE18         0.230    0.010
    3      10  COMBIN14       0.040    0.004
    4      12  COMBIN14       0.029    0.002
    5      11  COMBIN14       0.010    0.001
    6       3  COMBIN14       0.000    0.000
    7       3  COMBIN14       0.010    0.003
    8       3  COMBIN14       0.000    0.000
   30      31  MASS21         0.031    0.001
   71      12  BEAM4          0.320    0.027
   72       5  MASS21         0.020    0.004

  *** NODAL LOAD CALCULATION TIMES
 TYPE  NUMBER    ENAME      TOTAL CP  AVE CP

    1     120  PIPE16         0.100    0.001
    2      22  PIPE18         0.010    0.000
    3      10  COMBIN14       0.000    0.000
    4      12  COMBIN14       0.000    0.000
    5      11  COMBIN14       0.010    0.001
    6       3  COMBIN14       0.000    0.000
    7       3  COMBIN14       0.000    0.000
    8       3  COMBIN14       0.000    0.000
   30      31  MASS21         0.020    0.001
   71      12  BEAM4          0.050    0.004
   72       5  MASS21         0.000    0.000


*** ANSYS BINARY FILE STATISTICS
 BUFFER SIZE USED=  4096
      33.078 MB WRITTEN ON RESULTS FILE: pb2tfx.rst

ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2tfx.db
 FOR POSSIBLE RESUME FROM THIS POINT

FINISH SOLUTION PROCESSING


***** ROUTINE COMPLETED *****  CP =     15678.270


1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC     04:51:47  OCT 11, 1995 CP=  15678.290
FOR SUPPORT CALL                    PHONE                    FAX

 Time-history analysis of coupled system (pressurizer spray line)

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


         ***** TIME-HISTORY POSTPROCESSOR (POST26) *****

ALL POST26 SPECIFICATIONS ARE RESET TO INITIAL DEFAULTS
```

```
MAXIMUM NUMBER OF VARIABLES= 43

VARIABLE  2  IS AT ELEMENT     143  NODE=       1
   ITEM= F    COMP= X      NAME= FX

VARIABLE  3  IS AT ELEMENT     144  NODE=       1
   ITEM= F    COMP= Y      NAME= FY

VARIABLE  4  IS AT ELEMENT     145  NODE=       1
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE  5  IS AT ELEMENT     146  NODE=       1
   ITEM= M    COMP= X      NAME= MX

VARIABLE  6  IS AT ELEMENT     147  NODE=       1
   ITEM= M    COMP= Y      NAME= MY

VARIABLE  7  IS AT ELEMENT     148  NODE=       1
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE  8  IS AT ELEMENT     173  NODE=      87
   ITEM= F    COMP= X      NAME= FX

VARIABLE  9  IS AT ELEMENT     174  NODE=      87
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 10  IS AT ELEMENT     175  NODE=      87
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 11  IS AT ELEMENT     176  NODE=      87
   ITEM= M    COMP= X      NAME= MX

VARIABLE 12  IS AT ELEMENT     177  NODE=      87
   ITEM= M    COMP= Y      NAME= MY

VARIABLE 13  IS AT ELEMENT     178  NODE=      87
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE 14  IS AT ELEMENT     179  NODE=     130
   ITEM= F    COMP= X      NAME= FX

VARIABLE 15  IS AT ELEMENT     180  NODE=     130
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 16  IS AT ELEMENT     181  NODE=     130
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 17  IS AT ELEMENT     182  NODE=     130
   ITEM= M    COMP= X      NAME= MX

VARIABLE 18  IS AT ELEMENT     183  NODE=     130
   ITEM= M    COMP= Y      NAME= MY

VARIABLE 19  IS AT ELEMENT     184  NODE=     130
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE 20  IS AT ELEMENT     149  NODE=       9
   ITEM= F    COMP= X      NAME= FX

VARIABLE 21  IS AT ELEMENT     150  NODE=      10
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 22  IS AT ELEMENT     151  NODE=      15
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 23  IS AT ELEMENT     153  NODE=      23
   ITEM= F    COMP= X      NAME= FX

VARIABLE 24  IS AT ELEMENT     154  NODE=      28
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 25  IS AT ELEMENT     155  NODE=      37
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 26  IS AT ELEMENT     156  NODE=      39
   ITEM= F    COMP= X      NAME= FX

VARIABLE 27  IS AT ELEMENT     157  NODE=      44
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 28  IS AT ELEMENT     158  NODE=      45
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 29  IS AT ELEMENT     161  NODE=     124
   ITEM= F    COMP= X      NAME= FX

VARIABLE 30  IS AT ELEMENT     162  NODE=     125
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 31  IS AT ELEMENT     163  NODE=      52
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 32  IS AT ELEMENT     164  NODE=      54
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 33  IS AT ELEMENT     165  NODE=      57
   ITEM= F    COMP= X      NAME= FX

VARIABLE 34  IS AT ELEMENT     167  NODE=      73
   ITEM= F    COMP= Z      NAME= FZ
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```
VARIABLE 35  IS AT ELEMENT     169  NODE=     131
   ITEM= F    COMP= X      NAME= FX

VARIABLE 36  IS AT ELEMENT     170  NODE=     131
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 37  IS AT ELEMENT     171  NODE=     133
   ITEM= F    COMP= X      NAME= FX

VARIABLE 38  IS AT ELEMENT     172  NODE=     133
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 39  IS AT ELEMENT     152  NODE=      14
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 40  IS AT ELEMENT     159  NODE=      53
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 41  IS AT ELEMENT     168  NODE=      61
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 42  IS AT ELEMENT     166  NODE=      78
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 43  IS AT ELEMENT     160  NODE=      79
   ITEM= F    COMP= Y      NAME= FY

STORAGE COMPLETE FOR     99 DATA POINTS
```

SUMMARY OF VARIABLES STORED THIS STEP AND EXTREME VALUES

VARI	TYPE	IDENTIFIERS		NAME	MINIMUM	AT TIME	MAXIMUM	AT TIME
2	ESOL	143	F X	FX	-0.2794E-03	1.340	0.6241E-03	2.000
3	ESOL	144	F Y	FY	-0.1119E-03	1.340	0.2188E-03	2.000
4	ESOL	145	F Z	FZ	-0.9579E-04	1.360	0.1087E-03	1.700
5	ESOL	146	M X	MX	-0.1493E-03	0.6400	0.2179E-03	1.700
6	ESOL	147	M Y	MY	-0.2397E-02	2.000	0.1207E-02	1.360
7	ESOL	148	M Z	MZ	-0.4376E-03	1.220	0.1049E-02	2.000
8	ESOL	173	F X	FX	-0.2086E-03	1.280	0.6164E-03	2.000
9	ESOL	174	F Y	FY	-0.2078E-04	1.280	0.5900E-04	2.000
10	ESOL	175	F Z	FZ	-0.1537E-04	1.220	0.5184E-04	2.000
11	ESOL	176	M X	MX	-0.2680E-03	2.000	0.9823E-04	1.300
12	ESOL	177	M Y	MY	-0.3028E-03	1.280	0.8881E-03	2.000
13	ESOL	178	M Z	MZ	-0.3790E-03	2.000	0.1282E-03	1.280
14	ESOL	179	F X	FX	-0.1085E-03	1.280	0.3175E-03	2.000
15	ESOL	180	F Y	FY	-0.1855E-04	1.340	0.4766E-04	2.000
16	ESOL	181	F Z	FZ	-0.2038E-04	2.000	9.8110E-05	1.040
17	ESOL	182	M X	MX	-0.2049E-04	2.000	0.8124E-05	1.040
18	ESOL	183	M Y	MY	-0.2484E-04	1.280	0.7296E-04	2.000
19	ESOL	184	M Z	MZ	-0.4231E-03	2.000	0.1445E-03	1.280
20	ESOL	149	F X	FX	-0.8341E-03	1.180	0.2326E-02	2.000
21	ESOL	150	F Z	FZ	-0.2818E-03	1.720	0.2535E-03	1.360
22	ESOL	151	F Y	FY	-0.3122E-03	1.760	0.4099E-03	1.360
23	ESOL	153	F X	FX	-0.1408E-02	1.360	0.3720E-02	2.000
24	ESOL	154	F Z	FZ	-0.2113E-03	1.020	0.2186E-03	2.000
25	ESOL	155	F Y	FY	-0.3042E-03	1.360	0.2378E-03	1.740
26	ESOL	156	F X	FX	-0.2120E-02	1.380	0.5630E-02	2.000
27	ESOL	157	F Y	FY	-0.1193E-03	2.000	0.6288E-04	0.9600
28	ESOL	158	F Z	FZ	-0.3961E-03	1.380	0.7486E-03	2.000
29	ESOL	161	F X	FX	-0.1964E-03	1.280	0.5742E-03	2.000
30	ESOL	162	F Z	FZ	-0.6744E-05	1.040	0.1316E-04	2.000
31	ESOL	163	F Y	FY	-0.3099E-04	1.640	0.4523E-04	0.4600
32	ESOL	164	F Z	FZ	-0.2065E-03	2.000	0.7882E-04	1.400
33	ESOL	165	F X	FX	-0.7121E-03	1.260	0.2246E-02	2.000
34	ESOL	167	F Z	FZ	-0.1019E-02	2.000	0.3838E-03	1.400
35	ESOL	169	F X	FX	-0.1169E-02	1.280	0.3428E-02	2.000
36	ESOL	170	F Z	FZ	-0.7240E-04	1.240	0.1987E-03	2.000
37	ESOL	171	F X	FX	-0.1197E-02	1.280	0.3515E-02	2.000
38	ESOL	172	F Z	FZ	-0.4261E-04	1.460	0.9927E-04	2.000
39	ESOL	152	F Y	FY	-0.3002E-05	1.200	0.7098E-05	2.000
40	ESOL	159	F Y	FY	-0.6658E-05	2.000	0.2795E-05	1.440
41	ESOL	168	F Y	FY	-0.2760E-04	2.000	0.1235E-04	1.460
42	ESOL	166	F Y	FY	-0.4595E-05	1.320	0.1229E-04	2.000
43	ESOL	160	F Y	FY	-0.1234E-05	1.300	0.3423E-05	2.000

POST26 SUMMARY OF VARIABLE EXTREME VALUES

VARI	TYPE	IDENTIFIERS		NAME	MINIMUM	AT TIME	MAXIMUM	AT TIME
2	ESOL	143	F X	FX	-0.2794E-03	1.340	0.6241E-03	2.000
3	ESOL	144	F Y	FY	-0.1119E-03	1.340	0.2188E-03	2.000
4	ESOL	145	F Z	FZ	-0.9579E-04	1.360	0.1087E-03	1.700
5	ESOL	146	M X	MX	-0.1493E-03	0.6400	0.2179E-03	1.700
6	ESOL	147	M Y	MY	-0.2397E-02	2.000	0.1207E-02	1.360
7	ESOL	148	M Z	MZ	-0.4376E-03	1.220	0.1049E-02	2.000
8	ESOL	173	F X	FX	-0.3086E-03	1.280	0.6164E-03	2.000
9	ESOL	174	F Y	FY	-0.2078E-04	1.280	0.5900E-04	2.000
10	ESOL	175	F Z	FZ	-0.1537E-04	1.220	0.5184E-04	2.000
11	ESOL	176	M X	MX	-0.2680E-03	2.000	0.9823E-04	1.300
12	ESOL	177	M Y	MY	-0.3028E-03	1.280	0.8881E-03	2.000
13	ESOL	178	M Z	MZ	-0.3790E-03	2.000	0.1282E-03	1.280
14	ESOL	179	F X	FX	-0.1085E-03	1.280	0.3175E-03	2.000
15	ESOL	180	F Y	FY	-0.1855E-04	1.340	0.4766E-04	2.000
16	ESOL	181	F Z	FZ	-0.2038E-04	2.000	0.8110E-05	1.040
17	ESOL	182	M X	MX	-0.2049E-04	2.000	0.8124E-05	1.040
18	ESOL	183	M Y	MY	-0.2484E-04	1.280	0.7296E-04	2.000
19	ESOL	184	M Z	MZ	-0.4231E-03	2.000	0.1445E-03	1.280
20	ESOL	149	F X	FX	-0.8341E-03	1.180	0.2326E-02	2.000
21	ESOL	150	F Z	FZ	-0.2818E-03	1.720	0.2535E-03	1.360
22	ESOL	151	F Y	FY	-0.3122E-03	1.760	0.4099E-03	1.360
23	ESOL	153	F X	FX	-0.1408E-02	1.360	0.3720E-02	2.000
24	ESOL	154	F Z	FZ	-0.2113E-03	1.020	0.2186E-03	2.000

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 25 ESOL   155 F    Y    FY        -0.3042E-03  1.360      0.2378E-05  1.740
 26 ESOL   156 F    X    FX        -0.2120E-02  1.380      0.5630E-02  2.000
 27 ESOL   157 F    Y    FY        -0.1193E-03  2.000      0.6288E-06 0.9600
 28 ESOL   158 F    Z    FZ        -0.3961E-03  1.380      0.7486E-03  2.000
 29 ESOL   161 F    X    FX        -0.1964E-03  1.280      0.5742E-03  2.000
 30 ESOL   162 F    Z    FZ        -0.6744E-05  1.040      0.1316E-04  2.000
 31 ESOL   163 F    Y    FY        -0.3099E-04  1.640      0.4523E-04 0.4600
 32 ESOL   164 F    Z    FZ        -0.2065E-03  2.000      0.7882E-04  1.400
 33 ESOL   165 F    X    FX        -0.7121E-03  1.260      0.2246E-02  2.000
 34 ESOL   167 F    Z    FZ        -0.1019E-02  2.000      0.3938E-03  1.400
 35 ESOL   169 F    X    FX        -0.1169E-02  1.280      0.3428E-02  2.000
 36 ESOL   170 F    Z    FZ        -0.7240E-04  1.240      0.1987E-03  2.000
 37 ESOL   171 F    X    FX        -0.1197E-02  1.280      0.3515E-02  2.000
 38 ESOL   172 F    Z    FZ        -0.4261E-04  1.460      0.9927E-04  2.000
 39 ESOL   152 F    Y    FY        -0.3002E-05  1.200      0.7098E-05  2.000
 40 ESOL   159 F    Y    FY        -0.6658E-05  2.000      0.2795E-05  1.440
 41 ESOL   168 F    Y    FY        -0.2760E-04  2.000      0.1235E-04  1.480
 42 ESOL   166 F    Y    FY        -0.4595E-05  1.320      0.1229E-04  2.000
 43 ESOL   160 F    Y    FY        -0.1234E-05  1.300      0.3423E-05  2.000

ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2tfx.db
 FOR POSSIBLE RESUME FROM THIS POINT


***** ROUTINE COMPLETED *****  CP =      15692.930


*****  ANSYS SOLUTION ROUTINE  *****


PERFORM AN EXPANSION PASS


EXPAND   100 SOLUTIONS
 IN THE RANGE FROM  0.10000     TO  0.20000
 CALCULATE ELEMENT RESULTS AS WELL AS THE NODAL DOF SOLUTION

PRINT BASI ITEMS WITH A FREQUENCY OF NONE
  FOR ALL APPLICABLE ENTITIES

*****  ANSYS SOLVE    COMMAND  *****
1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0     *****
40416-2          VERSION=SUN4SPARC     04:52:30  OCT 11, 1995 CP=  15692.960
FOR SUPPORT CALL                    PHONE                    FAX

 Time-history analysis of coupled system (pressurizer spray line)

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**

                    S O L U T I O N   O P T I O N S

  PROBLEM DIMENSIONALITY. . . . . . . . . . . . . .3-D
  DEGREES OF FREEDOM. . . . . . UX   UY   UZ   ROTX ROTY ROTZ
  ANALYSIS TYPE . . . . . . . . . . . . . . . . . .TRANSIENT
     SOLUTION METHOD. . . . . . . . . . . . . . . .REDUCED
     EXPANSION PASS . . . . . . . . . . . . . . . .ON

                    L O A D   S T E P   O P T I O N S

  LOAD STEP NUMBER. . . . . . . . . . . . . . . .    1
  NUMBER OF SOLUTIONS TO BE EXPANDED. . . . . .   100
     RANGE. . . . . . . . . . . . . . . . . . . . 0.10000     TO  0.20000
  ELEMENT RESULTS CALCULATION . . . . . . . . .    ON
  PRINT OUTPUT CONTROLS
     ITEM      FREQUENCY   COMPONENT
     BASI      NONE
  DATABASE OUTPUT CONTROLS
     ITEM      FREQUENCY   COMPONENT
     NSOL      LAST


  *** ELEMENT RESULT CALCULATION TIMES
 TYPE  NUMBER   ENAME      TOTAL CP  AVE CP

    1     120  PIPE16        0.610    0.005
    2      22  PIPE18        0.159    0.007
    3      10  COMBIN14      0.000    0.000
    4      12  COMBIN14      0.000    0.000
    5      11  COMBIN14      0.000    0.000
    6       3  COMBIN14      0.010    0.003
    7       3  COMBIN14      0.000    0.000
    8       3  COMBIN14      0.000    0.000
   30      31  MASS21        0.039    0.001
   71      12  BEAM4         0.050    0.004
   72       5  MASS21        0.000    0.000

  *** NODAL LOAD CALCULATION TIMES
 TYPE  NUMBER   ENAME      TOTAL CP  AVE CP

    1     120  PIPE16        0.070    0.001
    2      22  PIPE18        0.011    0.000
    3      10  COMBIN14      0.010    0.001
    4      12  COMBIN14      0.000    0.000
    5      11  COMBIN14      0.000    0.000
    6       3  COMBIN14      0.000    0.000
    7       3  COMBIN14      0.030    0.010
    8       3  COMBIN14      0.000    0.000
   30      31  MASS21        0.011    0.000
```



```
   71      12  BEAM4         0.010    0.001
   72       5  MASS21        0.010    0.002


*** ANSYS BINARY FILE STATISTICS
 BUFFER SIZE USED=  4096
      33.078 MB WRITTEN ON RESULTS FILE: pb2tfx.rst

ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2tfx.db
 FOR POSSIBLE RESUME FROM THIS POINT

FINISH SOLUTION PROCESSING


***** ROUTINE COMPLETED *****  CP =      15907.090


1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0     *****
40416-2          VERSION=SUN4SPARC     05:00:10  OCT 11, 1995 CP=  15907.110
FOR SUPPORT CALL                    PHONE                    FAX

 Time-history analysis of coupled system (pressurizer spray line)

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


         ***** TIME-HISTORY POSTPROCESSOR (POST26) *****

ALL POST26 SPECIFICATIONS ARE RESET TO INITIAL DEFAULTS

MAXIMUM NUMBER OF VARIABLES= 43

VARIABLE  2  IS AT ELEMENT     143  NODE=         1
   ITEM= F    COMP= X      NAME= FX

VARIABLE  3  IS AT ELEMENT     144  NODE=         1
   ITEM= F    COMP= Y      NAME= FY

VARIABLE  4  IS AT ELEMENT     145  NODE=         1
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE  5  IS AT ELEMENT     146  NODE=         1
   ITEM= M    COMP= X      NAME= MX

VARIABLE  6  IS AT ELEMENT     147  NODE=         1
   ITEM= M    COMP= Y      NAME= MY

VARIABLE  7  IS AT ELEMENT     148  NODE=         1
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE  8  IS AT ELEMENT     173  NODE=        87
   ITEM= F    COMP= X      NAME= FX

VARIABLE  9  IS AT ELEMENT     174  NODE=        87
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 10  IS AT ELEMENT     175  NODE=        87
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 11  IS AT ELEMENT     176  NODE=        87
   ITEM= M    COMP= X      NAME= MX

VARIABLE 12  IS AT ELEMENT     177  NODE=        87
   ITEM= M    COMP= Y      NAME= MY

VARIABLE 13  IS AT ELEMENT     178  NODE=        87
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE 14  IS AT ELEMENT     179  NODE=       130
   ITEM= F    COMP= X      NAME= FX

VARIABLE 15  IS AT ELEMENT     180  NODE=       130
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 16  IS AT ELEMENT     181  NODE=       130
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 17  IS AT ELEMENT     182  NODE=       130
   ITEM= M    COMP= X      NAME= MX

VARIABLE 18  IS AT ELEMENT     183  NODE=       130
   ITEM= M    COMP= Y      NAME= MY

VARIABLE 19  IS AT ELEMENT     184  NODE=       130
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE 20  IS AT ELEMENT     149  NODE=         9
   ITEM= F    COMP= X      NAME= FX

VARIABLE 21  IS AT ELEMENT     150  NODE=        10
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 22  IS AT ELEMENT     151  NODE=        15
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 23  IS AT ELEMENT     153  NODE=        23
   ITEM= F    COMP= X      NAME= FX

VARIABLE 24  IS AT ELEMENT     154  NODE=        28
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   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 25  IS AT ELEMENT      155  NODE=       37
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 26  IS AT ELEMENT      156  NODE=       39
   ITEM= F    COMP= X      NAME= FX

VARIABLE 27  IS AT ELEMENT      157  NODE=       44
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 28  IS AT ELEMENT      158  NODE=       45
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 29  IS AT ELEMENT      161  NODE=      124
   ITEM= F    COMP= X      NAME= FX

VARIABLE 30  IS AT ELEMENT      162  NODE=      129
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 31  IS AT ELEMENT      163  NODE=       52
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 32  IS AT ELEMENT      164  NODE=       54
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 33  IS AT ELEMENT      165  NODE=       57
   ITEM= F    COMP= X      NAME= FX

VARIABLE 34  IS AT ELEMENT      167  NODE=       73
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 35  IS AT ELEMENT      169  NODE=      131
   ITEM= F    COMP= X      NAME= FX

VARIABLE 36  IS AT ELEMENT      170  NODE=      131
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 37  IS AT ELEMENT      171  NODE=      133
   ITEM= F    COMP= X      NAME= FX

VARIABLE 38  IS AT ELEMENT      172  NODE=      133
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 39  IS AT ELEMENT      152  NODE=       14
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 40  IS AT ELEMENT      159  NODE=       53
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 41  IS AT ELEMENT      168  NODE=       61
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 42  IS AT ELEMENT      166  NODE=       78
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 43  IS AT ELEMENT      160  NODE=       79
   ITEM= F    COMP= Y      NAME= FY

STORAGE COMPLETE FOR      99 DATA POINTS

        SUMMARY OF VARIABLES STORED THIS STEP AND EXTREME VALUES
VARI TYPE     IDENTIFIERS      NAME     MINIMUM     AT TIME     MAXIMUM    AT TIME

  2 ESOL   143 F    X      FX       -0.7273E-02   3.780     0.6004E-02   3.520
  3 ESOL   144 F    Y      FY       -0.1455E-02   3.900     0.1477E-02   3.340
  4 ESOL   145 F    Z      FZ       -0.4563E-02   3.080     0.3621E-02   3.300
  5 ESOL   146 M    X      MX       -0.4926E-02   3.680     0.5571E-02   4.000
  6 ESOL   147 M    Y      MY       -0.1821E-01   3.520     0.2174E-01   3.900
  7 ESOL   148 M    Z      MZ       -0.7042E-02   3.640     0.5279E-02   3.400
  8 ESOL   173 F    X      FX       -0.7900E-02   3.040     0.6519E-02   3.340
  9 ESOL   174 F    Y      FY       -0.5463E-02   3.220     0.5680E-02   3.260
 10 ESOL   175 F    Z      FZ       -0.1809E-02   3.040     0.1471E-02   3.160
 11 ESOL   176 M    X      MX       -0.1812E-01   3.260     0.1870E-01   3.220
 12 ESOL   177 M    Y      MY       -0.1215E-01   3.040     0.1066E-01   3.340
 13 ESOL   178 M    Z      MZ       -0.4384E-02   3.340     0.4749E-02   3.040
 14 ESOL   179 F    X      FX       -0.5158E-02   3.040     0.4322E-02   3.340
 15 ESOL   180 F    Y      FY       -0.9694E-03   3.840     0.9521E-03   3.540
 16 ESOL   181 F    Z      FZ       -0.9135E-03   3.300     0.8762E-03   3.340
 17 ESOL   182 M    X      MX       -0.8922E-03   3.300     0.8568E-03   3.340
 18 ESOL   183 M    Y      MY       -0.1239E-02   3.040     0.1035E-02   3.340
 19 ESOL   184 M    Z      MZ       -0.6111E-02   3.340     0.7221E-02   3.040
 20 ESOL   149 F    X      FX       -0.1209E-01   3.620     0.9072E-02   2.640
 21 ESOL   150 F    Z      FZ       -0.6597E-02   4.000     0.8110E-02   3.720
 22 ESOL   151 F    Y      FY       -0.6521E-02   3.980     0.1136E-01   3.780
 23 ESOL   153 F    X      FX       -0.2238E-01   3.900     0.1289E-01   3.520
 24 ESOL   154 F    Z      FZ       -0.5155E-02   4.000     0.5365E-02   3.720
 25 ESOL   155 F    Y      FY       -0.9532E-02   3.780     0.6015E-02   3.980
 26 ESOL   156 F    X      FX       -0.3351E-01   3.900     0.2409E-01   3.420
 27 ESOL   157 F    Y      FY       -0.2164E-02   3.620     0.1845E-02   3.980
 28 ESOL   158 F    Z      FZ       -0.6713E-02   3.160     0.5720E-02   3.460
 29 ESOL   161 F    X      FX       -0.8691E-02   3.040     0.7179E-02   3.340
 30 ESOL   162 F    Z      FZ       -0.1639E-02   3.340     0.1743E-02   3.300
 31 ESOL   163 F    Y      FY       -0.1721E-02   3.860     0.1682E-02   3.620
 32 ESOL   164 F    Z      FZ       -0.3800E-02   3.340     0.4330E-02   3.300
 33 ESOL   165 F    X      FX       -0.7198E-01   3.040     0.6557E-01   3.340
 34 ESOL   167 F    Z      FZ       -0.5944E-02   3.420     0.7132E-02   3.220
 35 ESOL   169 F    X      FX       -0.4847E-01   3.040     0.3886E-01   2.920
 36 ESOL   170 F    Z      FZ       -0.5272E-02   3.300     0.5837E-02   3.340
 37 ESOL   171 F    X      FX       -0.5421E-01   3.040     0.4448E-01   2.920
 38 ESOL   172 F    Z      FZ       -0.1250E-02   3.160     0.1124E-02   3.460
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 39 ESOL   152 F    Y      FY       -0.5866E-04   3.620     0.4317E-04   3.460
 40 ESOL   159 F    Y      FY       -0.1071E-03   3.540     0.1405E-03   3.340
 41 ESOL   168 F    Y      FY       -0.5708E-03   3.220     0.6680E-03   3.340
 42 ESOL   166 F    Y      FY       -0.2162E-03   3.840     0.2590E-03   3.540
 43 ESOL   160 F    Y      FY       -0.1861E-03   3.220     0.1824E-03   3.160

          POST26 SUMMARY OF VARIABLE EXTREME VALUES
VARI TYPE     IDENTIFIERS      NAME     MINIMUM     AT TIME     MAXIMUM    AT TIME

  2 ESOL   143 F    X      FX       -0.7273E-02   3.780     0.6004E-02   3.520
  3 ESOL   144 F    Y      FY       -0.1455E-02   3.900     0.1477E-02   3.340
  4 ESOL   145 F    Z      FZ       -0.4563E-02   3.080     0.3621E-02   3.300
  5 ESOL   146 M    X      MX       -0.4926E-02   3.680     0.5571E-02   4.000
  6 ESOL   147 M    Y      MY       -0.1821E-01   3.520     0.2174E-01   3.900
  7 ESOL   148 M    Z      MZ       -0.7042E-02   3.640     0.5279E-02   3.400
  8 ESOL   173 F    X      FX       -0.7900E-02   3.040     0.6519E-02   3.340
  9 ESOL   174 F    Y      FY       -0.5463E-02   3.220     0.5680E-02   3.260
 10 ESOL   175 F    Z      FZ       -0.1809E-02   3.040     0.1471E-02   3.160
 11 ESOL   176 M    X      MX       -0.1812E-01   3.260     0.1870E-01   3.220
 12 ESOL   177 M    Y      MY       -0.1215E-01   3.040     0.1066E-01   3.340
 13 ESOL   178 M    Z      MZ       -0.4384E-02   3.340     0.4749E-02   3.040
 14 ESOL   179 F    X      FX       -0.5158E-02   3.040     0.4322E-02   3.340
 15 ESOL   180 F    Y      FY       -0.9694E-03   3.840     0.9521E-03   3.540
 16 ESOL   181 F    Z      FZ       -0.9135E-03   3.300     0.8762E-03   3.340
 17 ESOL   182 M    X      MX       -0.8922E-03   3.300     0.8568E-03   3.340
 18 ESOL   183 M    Y      MY       -0.1235E-02   3.040     0.1035E-02   3.340
 19 ESOL   184 M    Z      MZ       -0.6111E-02   3.340     0.7221E-02   3.040
 20 ESOL   149 F    X      FX       -0.1209E-01   3.620     0.9072E-02   2.640
 21 ESOL   150 F    Z      FZ       -0.6597E-02   4.000     0.8110E-02   3.720
 22 ESOL   151 F    Y      FY       -0.6521E-02   3.980     0.1136E-01   3.780
 23 ESOL   153 F    X      FX       -0.2238E-01   3.900     0.1289E-01   3.520
 24 ESOL   154 F    Z      FZ       -0.5155E-02   4.000     0.5365E-02   3.720
 25 ESOL   155 F    Y      FY       -0.9532E-02   3.780     0.6015E-02   3.980
 26 ESOL   156 F    X      FX       -0.3351E-01   3.900     0.2409E-01   3.420
 27 ESOL   157 F    Y      FY       -0.2164E-02   3.620     0.1845E-02   3.980
 28 ESOL   158 F    Z      FZ       -0.6713E-02   3.160     0.5720E-02   3.460
 29 ESOL   161 F    X      FX       -0.8691E-02   3.040     0.7179E-02   3.340
 30 ESOL   162 F    Z      FZ       -0.1639E-02   3.340     0.1743E-02   3.300
 31 ESOL   163 F    Y      FY       -0.1721E-02   3.860     0.1682E-02   3.620
 32 ESOL   164 F    Z      FZ       -0.3800E-02   3.340     0.4330E-02   3.300
 33 ESOL   165 F    X      FX       -0.7198E-01   3.040     0.6557E-01   3.340
 34 ESOL   167 F    Z      FZ       -0.5944E-02   3.420     0.7132E-02   3.220
 35 ESOL   169 F    X      FX       -0.4847E-01   3.040     0.3886E-01   2.920
 36 ESOL   170 F    Z      FZ       -0.5272E-02   3.300     0.5837E-02   3.340
 37 ESOL   171 F    X      FX       -0.5421E-01   3.040     0.4448E-01   2.920
 38 ESOL   172 F    Z      FZ       -0.1250E-02   3.160     0.1124E-02   3.460
 39 ESOL   152 F    Y      FY       -0.5866E-04   3.620     0.4317E-04   3.460
 40 ESOL   159 F    Y      FY       -0.1071E-03   3.540     0.1405E-03   3.340
 41 ESOL   168 F    Y      FY       -0.5708E-03   3.220     0.6680E-03   3.340
 42 ESOL   166 F    Y      FY       -0.2162E-03   3.840     0.2590E-03   3.540
 43 ESOL   160 F    Y      FY       -0.1861E-03   3.220     0.1824E-03   3.160

ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2tfx.db
 FOR POSSIBLE RESUME FROM THIS POINT


***** ROUTINE COMPLETED *****  CP =      15918.010


*****  ANSYS SOLUTION ROUTINE  *****

PERFORM AN EXPANSION PASS


EXPAND   100 SOLUTIONS
 IN THE RANGE FROM  0.20000      TO  0.30000
 CALCULATE ELEMENT RESULTS AS WELL AS THE NODAL DOF SOLUTION

PRINT BASI ITEMS WITH A FREQUENCY OF NONE
  FOR ALL APPLICABLE ENTITIES

*****  ANSYS SOLVE    COMMAND  *****
1

*****  ANSYS  -  ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC     05:00:36  OCT 11, 1995 CP=  15918.040
FOR SUPPORT CALL                    PHONE                    FAX

 Time-history analysis of coupled system (pressurizer spray line)

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**

                    S O L U T I O N   O P T I O N S

  PROBLEM DIMENSIONALITY. . . . . .3-D
  DEGREES OF FREEDOM. . . . . UX   UY   UZ   ROTX ROTY ROTZ
  ANALYSIS TYPE . . . . . .TRANSIENT
     SOLUTION METHOD. . . . . .REDUCED
     EXPANSION PASS . . . . . .ON

                  L O A D   S T E P   O P T I O N S

  LOAD STEP NUMBER. . . . . .  1
  NUMBER OF SOLUTIONS TO BE EXPANDED. . . . . 100
     RANGE. . . . . .0.20000      TO  0.30000
  ELEMENT RESULTS CALCULATION . . . . . .  ON
  PRINT OUTPUT CONTROLS
     ITEM       FREQUENCY    COMPONENT
     BASI       NONE
```

```
  DATABASE OUTPUT CONTROLS
     ITEM      FREQUENCY    COMPONENT
     NSOL       LAST


   *** ELEMENT RESULT CALCULATION TIMES
 TYPE  NUMBER   ENAME       TOTAL CP  AVE CP

    1     120  PIPE16          0.480    0.004
    2      22  PIPE18          0.200    0.009
    3      10  COMBIN14        0.010    0.001
    4      12  COMBIN14        0.020    0.002
    5      11  COMBIN14        0.020    0.002
    6       3  COMBIN14        0.000    0.000
    7       3  COMBIN14        0.010    0.003
    8       3  COMBIN14        0.000    0.000
   30      31  MASS21          0.021    0.001
   71      12  BEAM4           0.060    0.005
   72       5  MASS21          0.000    0.000

   *** NODAL LOAD CALCULATION TIMES
 TYPE  NUMBER   ENAME       TOTAL CP  AVE CP

    1     120  PIPE16          0.101    0.001
    2      22  PIPE18          0.039    0.002
    3      10  COMBIN14        0.021    0.002
    4      12  COMBIN14        0.000    0.000
    5      11  COMBIN14        0.020    0.002
    6       3  COMBIN14        0.000    0.000
    7       3  COMBIN14        0.000    0.000
    8       3  COMBIN14        0.000    0.000
   30      31  MASS21          0.020    0.001
   71      12  BEAM4           0.011    0.001
   72       5  MASS21          0.010    0.002


*** ANSYS BINARY FILE STATISTICS
 BUFFER SIZE USED=  4096
       33.078 MB WRITTEN ON RESULTS FILE: pb2tfx.rst

ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2tfx.db
 FOR POSSIBLE RESUME FROM THIS POINT

FINISH SOLUTION PROCESSING


***** ROUTINE COMPLETED *****  CP =     16131.210


1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0     *****
40416-2          VERSION=SUN4SPARC     05:08:13  OCT 11, 1995 CP=  16131.230
FOR SUPPORT CALL                 PHONE                      FAX

 Time-history analysis of coupled system (pressurizer spray line)

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


         ***** TIME-HISTORY POSTPROCESSOR (POST26) *****

ALL POST26 SPECIFICATIONS ARE RESET TO INITIAL DEFAULTS

MAXIMUM NUMBER OF VARIABLES= 43

VARIABLE  2  IS AT ELEMENT      143  NODE=         1
   ITEM= F    COMP= X      NAME= FX

VARIABLE  3  IS AT ELEMENT      144  NODE=         1
   ITEM= F    COMP= Y      NAME= FY

VARIABLE  4  IS AT ELEMENT      145  NODE=         1
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE  5  IS AT ELEMENT      146  NODE=         1
   ITEM= M    COMP= X      NAME= MX

VARIABLE  6  IS AT ELEMENT      147  NODE=         1
   ITEM= M    COMP= Y      NAME= MY

VARIABLE  7  IS AT ELEMENT      148  NODE=         1
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE  8  IS AT ELEMENT      173  NODE=        87
   ITEM= F    COMP= X      NAME= FX

VARIABLE  9  IS AT ELEMENT      174  NODE=        87
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 10  IS AT ELEMENT      175  NODE=        87
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 11  IS AT ELEMENT      176  NODE=        87
   ITEM= M    COMP= X      NAME= MX

VARIABLE 12  IS AT ELEMENT      177  NODE=        87
   ITEM= M    COMP= Y      NAME= MY

VARIABLE 13  IS AT ELEMENT      178  NODE=        87
   ITEM= M    COMP= Z      NAME= MZ
```



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VARIABLE 14  IS AT ELEMENT      175  NODE=       130
   ITEM= F    COMP= X      NAME= FX

VARIABLE 15  IS AT ELEMENT      180  NODE=       130
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 16  IS AT ELEMENT      181  NODE=       130
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 17  IS AT ELEMENT      182  NODE=       130
   ITEM= M    COMP= X      NAME= MX

VARIABLE 18  IS AT ELEMENT      183  NODE=       130
   ITEM= M    COMP= Y      NAME= MY

VARIABLE 19  IS AT ELEMENT      184  NODE=       130
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE 20  IS AT ELEMENT      149  NODE=         9
   ITEM= F    COMP= X      NAME= FX

VARIABLE 21  IS AT ELEMENT      150  NODE=        10
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 22  IS AT ELEMENT      151  NODE=        15
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 23  IS AT ELEMENT      153  NODE=        23
   ITEM= F    COMP= X      NAME= FX

VARIABLE 24  IS AT ELEMENT      154  NODE=        28
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 25  IS AT ELEMENT      155  NODE=        37
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 26  IS AT ELEMENT      156  NODE=        39
   ITEM= F    COMP= X      NAME= FX

VARIABLE 27  IS AT ELEMENT      157  NODE=        44
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 28  IS AT ELEMENT      158  NODE=        45
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 29  IS AT ELEMENT      161  NODE=       124
   ITEM= F    COMP= X      NAME= FX

VARIABLE 30  IS AT ELEMENT      162  NODE=       129
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 31  IS AT ELEMENT      163  NODE=        52
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 32  IS AT ELEMENT      164  NODE=        54
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 33  IS AT ELEMENT      165  NODE=        57
   ITEM= F    COMP= X      NAME= FX

VARIABLE 34  IS AT ELEMENT      167  NODE=        73
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 35  IS AT ELEMENT      169  NODE=       131
   ITEM= F    COMP= X      NAME= FX

VARIABLE 36  IS AT ELEMENT      170  NODE=       131
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 37  IS AT ELEMENT      171  NODE=       133
   ITEM= F    COMP= X      NAME= FX

VARIABLE 38  IS AT ELEMENT      172  NODE=       133
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 39  IS AT ELEMENT      152  NODE=        14
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 40  IS AT ELEMENT      159  NODE=        53
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 41  IS AT ELEMENT      168  NODE=        61
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 42  IS AT ELEMENT      166  NODE=        78
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 43  IS AT ELEMENT      160  NODE=        79
   ITEM= F    COMP= Y      NAME= FY

STORAGE COMPLETE FOR     99 DATA POINTS

        SUMMARY OF VARIABLES STORED THIS STEP AND EXTREME VALUES
VARI TYPE    IDENTIFIERS     NAME   MINIMUM     AT TIME     MAXIMUM    AT TIME

  2 ESOL   145 F    X     FX       -0.4281E-01  5.900      0.2128E-01  5.780
  3 ESOL   144 F    Y     FY       -0.9216E-02  5.720      0.8955E-02  6.000
  4 ESOL   145 F    Z     FZ       -0.1128E-01  5.800      0.1558E-01  6.000
  5 ESOL   146 M    X     MX       -0.1574E-01  5.740      0.2744E-01  6.000
  6 ESOL   147 M    Y     MY       -0.6069E-01  5.360      0.1110      5.840
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  7 ESOL   148 M    Z     MZ        -0.6667E-01  5.760     0.8904E-01  5.940
  8 ESOL   173 F    X     FX        -0.2016E-01  5.720     0.1345E-01  5.840
  9 ESOL   174 F    Y     FY        -0.5337E-02  4.400     0.6036E-02  5.340
 10 ESOL   175 F    Z     FZ        -0.3183E-02  5.700     0.5706E-02  5.840
 11 ESOL   176 M    X     MX        -0.2141E-01  5.340     0.1844E-01  4.400
 12 ESOL   177 M    Y     MY        -0.2971E-01  5.720     0.1762E-01  5.840
 13 ESOL   178 M    Z     MZ        -0.7396E-02  5.840     0.1284E-01  5.720
 14 ESOL   179 F    X     FX        -0.1100E-01  5.720     0.7332E-02  5.840
 15 ESOL   180 F    Y     FY        -0.2309E-02  5.920     0.1462E-02  5.320
 16 ESOL   181 F    Z     FZ        -0.1161E-02  4.320     0.1343E-02  5.940
 17 ESOL   182 M    X     MX        -0.1137E-02  4.320     0.1319E-02  5.940
 18 ESOL   183 M    Y     MY        -0.2576E-02  5.720     0.1864E-02  5.840
 19 ESOL   184 M    Z     MZ        -0.1026E-01  5.840     0.1478E-01  5.720
 20 ESOL   149 F    X     FX        -0.9040E-01  5.740     0.1493      5.920
 21 ESOL   150 F    Z     FZ        -0.4001E-01  6.000     0.2693E-01  5.800
 22 ESOL   151 F    Y     FY        -0.3520E-01  6.000     0.2788E-01  5.880
 23 ESOL   153 F    X     FX        -0.1149      5.740     0.4668E-01  5.360
 24 ESOL   154 F    Z     FZ        -0.2768E-01  6.000     0.1192E-01  5.760
 25 ESOL   155 F    Y     FY        -0.2401E-01  5.840     0.2672E-01  6.000
 26 ESOL   156 F    X     FX        -0.1679      5.800     0.8696E-01  6.000
 27 ESOL   157 F    Y     FY        -0.5818E-02  5.420     0.1441E-01  5.960
 28 ESOL   158 F    Z     FZ        -0.4410E-01  5.820     0.2997E-01  6.000
 29 ESOL   161 F    X     FX        -0.1962E-01  5.720     0.1225E-01  5.840
 30 ESOL   162 F    Z     FZ        -0.2283E-02  5.940     0.2124E-02  4.320
 31 ESOL   163 F    Y     FY        -0.1311E-01  5.940     0.3805E-02  5.040
 32 ESOL   164 F    Z     FZ        -0.6162E-02  5.260     0.7919E-02  5.820
 33 ESOL   165 F    X     FX        -0.1188      5.700     0.1785      5.840
 34 ESOL   167 F    Z     FZ        -0.1600E-01  6.000     0.3205E-01  5.800
 35 ESOL   169 F    X     FX        -0.1209      5.720     0.7930E-01  5.840
 36 ESOL   170 F    Z     FZ        -0.7167E-02  5.700     0.6353E-02  5.260
 37 ESOL   171 F    X     FX        -0.1238      5.720     0.8306E-01  5.840
 38 ESOL   172 F    Z     FZ        -0.5731E-02  5.840     0.1972E-02  5.280
 39 ESOL   152 F    Y     FY        -0.5478E-03  5.760     0.7994E-03  5.920
 40 ESOL   159 F    Y     FY        -0.2549E-03  5.460     0.2058E-03  5.780
 41 ESOL   168 F    Y     FY        -0.1238E-02  5.460     0.1151E-02  5.780
 42 ESOL   166 F    Y     FY        -0.6652E-03  5.980     0.3854E-03  5.440
 43 ESOL   160 F    Y     FY        -0.1877E-03  4.400     0.2210E-03  5.340

          POST26 SUMMARY OF VARIABLE EXTREME VALUES
VARI TYPE     IDENTIFIERS     NAME      MINIMUM     AT TIME     MAXIMUM    AT TIME

  2 ESOL   143 F    X     FX        -0.4281E-01  5.900     0.2128E-01  5.780
  3 ESOL   144 F    Y     FY        -0.9216E-02  5.720     0.8955E-02  6.000
  4 ESOL   145 F    Z     FZ        -0.1128E-01  5.800     0.1558E-01  6.000
  5 ESOL   146 M    X     MX        -0.1574E-01  5.740     0.2784E-01  6.000
  6 ESOL   147 M    Y     MY        -0.6069E-01  5.360     0.1110      5.840
  7 ESOL   148 M    Z     MZ        -0.6667E-01  5.760     0.8904E-01  5.940
  8 ESOL   173 F    X     FX        -0.2016E-01  5.720     0.1345E-01  5.840
  9 ESOL   174 F    Y     FY        -0.5337E-02  4.400     0.6036E-02  5.340
 10 ESOL   175 F    Z     FZ        -0.3183E-02  5.700     0.5706E-02  5.840
 11 ESOL   176 M    X     MX        -0.2141E-01  5.340     0.1844E-01  4.400
 12 ESOL   177 M    Y     MY        -0.2971E-01  5.720     0.1762E-01  5.840
 13 ESOL   178 M    Z     MZ        -0.7396E-02  5.840     0.1284E-01  5.720
 14 ESOL   179 F    X     FX        -0.1100E-01  5.720     0.7332E-02  5.840
 15 ESOL   180 F    Y     FY        -0.2309E-02  5.920     0.1462E-02  5.320
 16 ESOL   181 F    Z     FZ        -0.1161E-02  4.320     0.1343E-02  5.940
 17 ESOL   182 M    X     MX        -0.1137E-02  4.320     0.1319E-02  5.940
 18 ESOL   183 M    Y     MY        -0.2576E-02  5.720     0.1864E-02  5.840
 19 ESOL   184 M    Z     MZ        -0.1026E-01  5.840     0.1478E-01  5.720
 20 ESOL   149 F    X     FX        -0.9040E-01  5.740     0.1493      5.920
 21 ESOL   150 F    Z     FZ        -0.4001E-01  6.000     0.2693E-01  5.800
 22 ESOL   151 F    Y     FY        -0.3520E-01  6.000     0.2788E-01  5.880
 23 ESOL   153 F    X     FX        -0.1149      5.740     0.4668E-01  5.360
 24 ESOL   154 F    Z     FZ        -0.2768E-01  6.000     0.1192E-01  5.760
 25 ESOL   155 F    Y     FY        -0.2401E-01  5.840     0.2672E-01  6.000
 26 ESOL   156 F    X     FX        -0.1679      5.800     0.8696E-01  6.000
 27 ESOL   157 F    Y     FY        -0.5818E-02  5.420     0.1441E-01  5.960
 28 ESOL   158 F    Z     FZ        -0.4410E-01  5.820     0.2997E-01  6.000
 29 ESOL   161 F    X     FX        -0.1962E-01  5.720     0.1225E-01  5.840
 30 ESOL   162 F    Z     FZ        -0.2283E-02  5.940     0.2124E-02  4.320
 31 ESOL   163 F    Y     FY        -0.1311E-01  5.940     0.3805E-02  5.040
 32 ESOL   164 F    Z     FZ        -0.6162E-02  5.260     0.7919E-02  5.820
 33 ESOL   165 F    X     FX        -0.1188      5.700     0.1785      5.840
 34 ESOL   167 F    Z     FZ        -0.1600E-01  6.000     0.3205E-01  5.800
 35 ESOL   169 F    X     FX        -0.1209      5.720     0.7930E-01  5.840
 36 ESOL   170 F    Z     FZ        -0.7167E-02  5.700     0.6353E-02  5.260
 37 ESOL   171 F    X     FX        -0.1238      5.720     0.8306E-01  5.840
 38 ESOL   172 F    Z     FZ        -0.5731E-02  5.840     0.1972E-02  5.280
 39 ESOL   152 F    Y     FY        -0.5478E-03  5.760     0.7994E-03  5.920
 40 ESOL   159 F    Y     FY        -0.2549E-03  5.460     0.2058E-03  5.780
 41 ESOL   168 F    Y     FY        -0.1238E-02  5.460     0.1151E-02  5.780
 42 ESOL   166 F    Y     FY        -0.6652E-03  5.980     0.3854E-03  5.440
 43 ESOL   160 F    Y     FY        -0.1877E-03  4.400     0.2210E-03  5.340

ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2tfx.db
 FOR POSSIBLE RESUME FROM THIS POINT


***** ROUTINE COMPLETED *****  CP =      16144.310


*****  ANSYS SOLUTION ROUTINE  *****

PERFORM AN EXPANSION PASS


EXPAND   100 SOLUTIONS
 IN THE RANGE FROM  0.30000      TO  0.40000
 CALCULATE ELEMENT RESULTS AS WELL AS THE NODAL DOF SOLUTION
```



```
PRINT BASI ITEMS WITH A FREQUENCY OF NONE
  FOR ALL APPLICABLE ENTITIES

*****  ANSYS SOLVE    COMMAND  *****
1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC      05:08:41  OCT 11, 1995 CP=  16144.340
FOR SUPPORT CALL                    PHONE                        FAX

 Time-history analysis of coupled system (pressurizer spray line)

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**

                    S O L U T I O N   O P T I O N S

  PROBLEM DIMENSIONALITY. . . . . .3-D
  DEGREES OF FREEDOM. . . . . UX   UY   UZ   AOTX ROTY ROTZ
  ANALYSIS TYPE . . . . . .TRANSIENT
     SOLUTION METHOD. . . . . .REDUCED
     EXPANSION PASS . . . . . .ON

                    L O A D   S T E P   O P T I O N S

  LOAD STEP NUMBER. . . . . .  1
  NUMBER OF SOLUTIONS TO BE EXPANDED. . . . . .  100
     RANGE. . . . . .  0.30000     TO  0.40000
  ELEMENT RESULTS CALCULATION . . . . . .  ON
  PRINT OUTPUT CONTROLS
     ITEM      FREQUENCY   COMPONENT
     BASI       NONE
  DATABASE OUTPUT CONTROLS
     ITEM      FREQUENCY   COMPONENT
     NSOL       LAST


  *** ELEMENT RESULT CALCULATION TIMES
 TYPE  NUMBER    ENAME      TOTAL CP  AVE CP

    1      120  PIPE16        0.599     0.005
    2       22  PIPE18        0.159     0.007
    3       10  COMBIN14      0.040     0.004
    4       12  COMBIN14      0.010     0.001
    5       11  COMBIN14      0.010     0.001
    6        3  COMBIN14      0.000     0.000
    7        3  COMBIN14      0.000     0.000
    8        3  COMBIN14      0.000     0.000
   30       31  MASS21        0.031     0.001
   71       12  BEAM4         0.050     0.004
   72        5  MASS21        0.011     0.002

  *** NODAL LOAD CALCULATION TIMES
 TYPE  NUMBER    ENAME      TOTAL CP  AVE CP

    1      120  PIPE16        0.029     0.000
    2       22  PIPE18        0.021     0.001
    3       10  COMBIN14      0.000     0.000
    4       12  COMBIN14      0.000     0.000
    5       11  COMBIN14      0.000     0.000
    6        3  COMBIN14      0.011     0.004
    7        3  COMBIN14      0.000     0.000
    8        3  COMBIN14      0.000     0.000
   30       31  MASS21        0.010     0.000
   71       12  BEAM4         0.010     0.001
   72        5  MASS21        0.000     0.000


*** ANSYS BINARY FILE STATISTICS
 BUFFER SIZE USED=  4096
      33.078 MB WRITTEN ON RESULTS FILE: pb2tfx.rst

ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2tfx.db
 FOR POSSIBLE RESUME FROM THIS POINT

FINISH SOLUTION PROCESSING


***** ROUTINE COMPLETED *****  CP =      16357.140


1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC      07:16:16  OCT 11, 1995 CP=  16357.170
FOR SUPPORT CALL                    PHONE                        FAX

 Time-history analysis of coupled system (pressurizer spray line)

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


        ***** TIME-HISTORY POSTPROCESSOR (POST26) *****

ALL POST26 SPECIFICATIONS ARE RESET TO INITIAL DEFAULTS

MAXIMUM NUMBER OF VARIABLES= 43

VARIABLE  2  IS AT ELEMENT      143  NODE=         1
   ITEM= F    COMP= X      NAME= FX
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VARIABLE  3  IS AT ELEMENT     144  NODE=       1
   ITEM= F    COMP= Y      NAME= FY

VARIABLE  4  IS AT ELEMENT     145  NODE=       1
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE  5  IS AT ELEMENT     146  NODE=       1
   ITEM= M    COMP= X      NAME= MX

VARIABLE  6  IS AT ELEMENT     147  NODE=       1
   ITEM= M    COMP= Y      NAME= MY

VARIABLE  7  IS AT ELEMENT     148  NODE=       1
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE  8  IS AT ELEMENT     173  NODE=      87
   ITEM= F    COMP= X      NAME= FX

VARIABLE  9  IS AT ELEMENT     174  NODE=      87
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 10  IS AT ELEMENT     175  NODE=      87
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 11  IS AT ELEMENT     176  NODE=      87
   ITEM= M    COMP= X      NAME= MX

VARIABLE 12  IS AT ELEMENT     177  NODE=      87
   ITEM= M    COMP= Y      NAME= MY

VARIABLE 13  IS AT ELEMENT     178  NODE=      87
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE 14  IS AT ELEMENT     179  NODE=     130
   ITEM= F    COMP= X      NAME= FX

VARIABLE 15  IS AT ELEMENT     180  NODE=     130
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 16  IS AT ELEMENT     181  NODE=     130
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 17  IS AT ELEMENT     182  NODE=     130
   ITEM= M    COMP= X      NAME= MX

VARIABLE 18  IS AT ELEMENT     183  NODE=     130
   ITEM= M    COMP= Y      NAME= MY

VARIABLE 19  IS AT ELEMENT     184  NODE=     130
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE 20  IS AT ELEMENT     149  NODE=       9
   ITEM= F    COMP= X      NAME= FX

VARIABLE 21  IS AT ELEMENT     150  NODE=      10
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 22  IS AT ELEMENT     151  NODE=      15
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 23  IS AT ELEMENT     153  NODE=      23
   ITEM= F    COMP= X      NAME= FX

VARIABLE 24  IS AT ELEMENT     154  NODE=      28
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 25  IS AT ELEMENT     155  NODE=      37
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 26  IS AT ELEMENT     156  NODE=      39
   ITEM= F    COMP= X      NAME= FX

VARIABLE 27  IS AT ELEMENT     157  NODE=      44
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 28  IS AT ELEMENT     158  NODE=      45
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 29  IS AT ELEMENT     161  NODE=     124
   ITEM= F    COMP= X      NAME= FX

VARIABLE 30  IS AT ELEMENT     162  NODE=     129
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 31  IS AT ELEMENT     163  NODE=      52
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 32  IS AT ELEMENT     164  NODE=      54
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 33  IS AT ELEMENT     165  NODE=      57
   ITEM= F    COMP= X      NAME= FX

VARIABLE 34  IS AT ELEMENT     167  NODE=      73
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 35  IS AT ELEMENT     169  NODE=     131
   ITEM= F    COMP= X      NAME= FX

VARIABLE 36  IS AT ELEMENT     170  NODE=     131
   ITEM= F    COMP= Z      NAME= FZ
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VARIABLE 37  IS AT ELEMENT     171  NODE=     133
   ITEM= F    COMP= X      NAME= FX

VARIABLE 38  IS AT ELEMENT     172  NODE=     133
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 39  IS AT ELEMENT     152  NODE=      14
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 40  IS AT ELEMENT     159  NODE=      53
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 41  IS AT ELEMENT     168  NODE=      61
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 42  IS AT ELEMENT     166  NODE=      78
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 43  IS AT ELEMENT     160  NODE=      79
   ITEM= F    COMP= Y      NAME= FY

STORAGE COMPLETE FOR     99 DATA POINTS
```

SUMMARY OF VARIABLES STORED THIS STEP AND EXTREME VALUES

VARI	TYPE	IDENTIFIERS			NAME	MINIMUM	AT TIME	MAXIMUM	AT TIME
2	ESOL	143	F	X	FX	-0.6554E-01	7.020	0.5417E-01	6.900
3	ESOL	144	F	Y	FY	-0.1213E-01	6.400	0.1637E-01	7.340
4	ESOL	145	F	Z	FZ	-0.3537E-01	6.980	0.4056E-01	7.320
5	ESOL	146	M	X	MX	-0.5561E-01	7.000	0.6275E-01	7.340
6	ESOL	147	M	Y	MY	-0.1190	6.140	0.1341	7.660
7	ESOL	148	M	Z	MZ	-0.8313E-01	7.160	0.1036	7.320
8	ESOL	173	F	X	FX	-0.1503E-01	6.580	0.1912E-01	6.940
9	ESOL	174	F	Y	FY	-0.9480E-02	7.080	0.1139E-01	7.040
10	ESOL	175	F	Z	FZ	-0.4232E-02	6.220	0.5599E-02	6.460
11	ESOL	176	M	X	MX	-0.3857E-01	7.040	0.3216E-01	7.080
12	ESOL	177	M	Y	MY	-0.2376E-01	6.580	0.3018E-01	6.940
13	ESOL	178	M	Z	MZ	-0.1306E-01	6.940	0.1054E-01	7.900
14	ESOL	179	F	X	FX	-0.9615E-02	6.580	0.1214E-01	6.940
15	ESOL	180	F	Y	FY	-0.4398E-02	7.620	0.5556E-02	6.900
16	ESOL	181	F	Z	FZ	-0.3582E-02	6.900	0.2819E-02	7.360
17	ESOL	182	M	X	MX	-0.3542E-02	6.900	0.2771E-02	7.360
18	ESOL	183	M	Y	MY	-0.2118E-02	6.580	0.3079E-02	6.940
19	ESOL	184	M	Z	MZ	-0.1691E-01	6.940	0.1313E-01	6.580
20	ESOL	149	F	X	FX	-0.1465	7.460	0.1559	7.020
21	ESOL	150	F	Z	FZ	-0.9815E-01	7.340	0.8810E-01	7.000
22	ESOL	151	F	Y	FY	-0.8821E-01	6.680	0.1154	7.020
23	ESOL	153	F	X	FX	-0.1063	7.140	0.1134	7.880
24	ESOL	154	F	Z	FZ	-0.6145E-01	6.680	0.6190E-01	7.020
25	ESOL	155	F	Y	FY	-0.9537E-01	7.020	0.7680E-01	6.720
26	ESOL	156	F	X	FX	-0.2238	6.480	0.1554	7.740
27	ESOL	157	F	Y	FY	-0.2461E-01	7.920	0.1859E-01	7.720
28	ESOL	158	F	Z	FZ	-0.6197E-01	6.460	0.5046E-01	7.400
29	ESOL	161	F	X	FX	-0.1692E-01	6.580	0.2045E-01	6.940
30	ESOL	162	F	Z	FZ	-0.4714E-02	7.360	0.5004E-02	6.900
31	ESOL	163	F	Y	FY	-0.1212E-01	7.360	0.1766E-01	7.940
32	ESOL	164	F	Z	FZ	-0.9615E-02	6.960	0.9582E-02	7.540
33	ESOL	165	F	X	FX	-0.1527	6.220	0.1670	6.460
34	ESOL	167	F	Z	FZ	-0.2432E-01	6.260	0.4135E-01	6.500
35	ESOL	169	F	X	FX	-0.9919E-01	6.580	0.1138	6.940
36	ESOL	170	F	Z	FZ	-0.1173E-01	7.160	0.1058E-01	7.340
37	ESOL	171	F	X	FX	-0.1057	6.580	0.1236	6.940
38	ESOL	172	F	Z	FZ	-0.6054E-02	6.480	0.4226E-02	6.240
39	ESOL	152	F	Y	FY	-0.7369E-03	7.160	0.8023E-03	7.320
40	ESOL	159	F	Y	FY	-0.7303E-03	7.880	0.7712E-03	7.740
41	ESOL	168	F	Y	FY	-0.4330E-02	7.880	0.4386E-02	7.740
42	ESOL	166	F	Y	FY	-0.1045E-02	7.360	0.1134E-02	7.960
43	ESOL	160	F	Y	FY	-0.3288E-03	7.080	0.3814E-03	7.040

POST26 SUMMARY OF VARIABLE EXTREME VALUES

VARI	TYPE	IDENTIFIERS			NAME	MINIMUM	AT TIME	MAXIMUM	AT TIME
2	ESOL	143	F	X	FX	-0.6554E-01	7.020	0.5417E-01	6.900
3	ESOL	144	F	Y	FY	-0.1213E-01	6.400	0.1637E-01	7.340
4	ESOL	145	F	Z	FZ	-0.3537E-01	6.980	0.4056E-01	7.320
5	ESOL	146	M	X	MX	-0.5561E-01	7.000	0.6275E-01	7.340
6	ESOL	147	M	Y	MY	-0.1190	6.140	0.1341	7.660
7	ESOL	148	M	Z	MZ	-0.8313E-01	7.160	0.1036	7.320
8	ESOL	173	F	X	FX	-0.1503E-01	6.580	0.1912E-01	6.940
9	ESOL	174	F	Y	FY	-0.9480E-02	7.080	0.1139E-01	7.040
10	ESOL	175	F	Z	FZ	-0.4232E-02	6.220	0.5599E-02	6.460
11	ESOL	176	M	X	MX	-0.3857E-01	7.040	0.3216E-01	7.080
12	ESOL	177	M	Y	MY	-0.2376E-01	6.580	0.3018E-01	6.940
13	ESOL	178	M	Z	MZ	-0.1306E-01	6.940	0.1054E-01	7.900
14	ESOL	179	F	X	FX	-0.9615E-02	6.580	0.1214E-01	6.940
15	ESOL	180	F	Y	FY	-0.4398E-02	7.620	0.5556E-02	6.900
16	ESOL	181	F	Z	FZ	-0.3582E-02	6.900	0.2819E-02	7.360
17	ESOL	182	M	X	MX	-0.3542E-02	6.900	0.2771E-02	7.360
18	ESOL	183	M	Y	MY	-0.2118E-02	6.580	0.3079E-02	6.940
19	ESOL	184	M	Z	MZ	-0.1691E-01	6.940	0.1313E-01	6.580
20	ESOL	149	F	X	FX	-0.1465	7.460	0.1559	7.020
21	ESOL	150	F	Z	FZ	-0.9815E-01	7.340	0.8810E-01	7.000
22	ESOL	151	F	Y	FY	-0.8821E-01	6.680	0.1154	7.020
23	ESOL	153	F	X	FX	-0.1063	7.140	0.1134	7.880
24	ESOL	154	F	Z	FZ	-0.6145E-01	6.680	0.6190E-01	7.020
25	ESOL	155	F	Y	FY	-0.9537E-01	7.020	0.7680E-01	6.720
26	ESOL	156	F	X	FX	-0.2238	6.480	0.1554	7.740
27	ESOL	157	F	Y	FY	-0.2461E-01	7.920	0.1859E-01	7.720
28	ESOL	158	F	Z	FZ	-0.6197E-01	6.460	0.5046E-01	7.400
29	ESOL	161	F	X	FX	-0.1692E-01	6.580	0.2045E-01	6.940

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 30 ESOL   162 F     Z     FZ        -0.4714E-02  7.360     0.5004E-02  6.900
 31 ESOL   163 F     Y     FY        -0.1212E-01  7.360     0.1766E-01  7.940
 32 ESOL   164 F     Z     FZ        -0.9615E-02  6.960     0.9582E-02  7.540
 33 ESOL   165 F     X     FX        -0.1527      6.220     0.1670      6.460
 34 ESOL   167 F     Z     FZ        -0.2432E-01  6.260     0.4135E-01  6.500
 35 ESOL   169 F     X     FX        -0.9919E-01  6.580     0.1138      6.940
 36 ESOL   170 F     Z     FZ        -0.1173E-01  7.160     0.1058E-01  7.340
 37 ESOL   171 F     X     FX        -0.1057      6.580     0.1236      6.940
 38 ESOL   172 F     Z     FZ        -0.6054E-02  6.480     0.4226E-02  6.240
 39 ESOL   152 F     Y     FY        -0.7369E-03  7.160     0.8023E-03  7.320
 40 ESOL   159 F     Y     FY        -0.7303E-03  7.880     0.7712E-03  7.740
 41 ESOL   168 F     Y     FY        -0.4330E-02  7.880     0.4386E-02  7.740
 42 ESOL   166 F     Y     FY        -0.1045E-02  7.360     0.1134E-02  7.960
 43 ESOL   160 F     Y     FY        -0.3288E-03  7.080     0.3514E-03  7.040

ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2tfx.db
 FOR POSSIBLE RESUME FROM THIS POINT


***** ROUTINE COMPLETED *****  CP =     16369.790



*****  ANSYS SOLUTION ROUTINE  *****

PERFORM AN EXPANSION PASS


EXPAND   100 SOLUTIONS
 IN THE RANGE FROM  0.40000      TO  0.50000
 CALCULATE ELEMENT RESULTS AS WELL AS THE NODAL DOF SOLUTION

PRINT BASI ITEMS WITH A FREQUENCY OF NONE
  FOR ALL APPLICABLE ENTITIES

*****  ANSYS SOLVE    COMMAND  *****
1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0     *****
40416-2           VERSION=SUN4SPARC     05:16:45  OCT 11, 1995 CP=  16369.820
FOR SUPPORT CALL                  PHONE                      FAX

 Time-history analysis of coupled system (pressurizer spray line)

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**

                    S O L U T I O N   O P T I O N S

  PROBLEM DIMENSIONALITY. . . . . .3-D
  DEGREES OF FREEDOM. . . . . UX   UY   UZ   ROTX ROTY ROTZ
  ANALYSIS TYPE . . . . . .TRANSIENT
     SOLUTION METHOD. . . . . .REDUCED
     EXPANSION PASS . . . . . .ON

                    L O A D   S T E P   O P T I O N S

  LOAD STEP NUMBER. . . . . 1
  NUMBER OF SOLUTIONS TO BE EXPANDED. . . . . 100
     RANGE. . . . . 0.40000      TO  0.50000
  ELEMENT RESULTS CALCULATION . . . . . ON
  PRINT OUTPUT CONTROLS
     ITEM      FREQUENCY   COMPONENT
     BASI      NONE
  DATABASE OUTPUT CONTROLS
     ITEM      FREQUENCY   COMPONENT
     NSOL      LAST


   *** ELEMENT RESULT CALCULATION TIMES
 TYPE  NUMBER   ENAME      TOTAL CP  AVE CP

    1     120  PIPE16        0.601    0.005
    2      22  PIPE18        0.180    0.008
    3      10  COMBIN14      0.000    0.000
    4      12  COMBIN14      0.030    0.002
    5      11  COMBIN14      0.000    0.000
    6       3  COMBIN14      0.000    0.000
    7       3  COMBIN14      0.000    0.000
    8       3  COMBIN14      0.000    0.000
   30      31  MASS21        0.039    0.001
   71      12  BEAM4         0.040    0.003
   72       5  MASS21        0.011    0.002

   *** NODAL LOAD CALCULATION TIMES
 TYPE  NUMBER   ENAME      TOTAL CP  AVE CP

    1     120  PIPE16        0.050    0.000
    2      22  PIPE18        0.010    0.000
    3      10  COMBIN14      0.000    0.000
    4      12  COMBIN14      0.000    0.000
    5      11  COMBIN14      0.000    0.000
    6       3  COMBIN14      0.000    0.000
    7       3  COMBIN14      0.011    0.004
    8       3  COMBIN14      0.000    0.000
   30      31  MASS21        0.010    0.000
   71      12  BEAM4         0.010    0.001
   72       5  MASS21        0.000    0.000

*** ANSYS BINARY FILE STATISTICS
```



```
 BUFFER SIZE USED=  4096
      33.078 MB WRITTEN ON RESULTS FILE: pb2tfx.rst

ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2tfx.db
 FOR POSSIBLE RESUME FROM THIS POINT

FINISH SOLUTION PROCESSING


***** ROUTINE COMPLETED *****  CP =     16582.940


1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0     *****
40416-2           VERSION=SUN4SPARC     05:24:19  OCT 11, 1995 CP=  16582.960
FOR SUPPORT CALL                  PHONE                      FAX

 Time-history analysis of coupled system (pressurizer spray line)

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**

          ***** TIME-HISTORY POSTPROCESSOR (POST26) *****

ALL POST26 SPECIFICATIONS ARE RESET TO INITIAL DEFAULTS

MAXIMUM NUMBER OF VARIABLES= 43

VARIABLE  2  IS AT ELEMENT     143  NODE=         1
   ITEM= F    COMP= X      NAME= FX

VARIABLE  3  IS AT ELEMENT     144  NODE=         1
   ITEM= F    COMP= Y      NAME= FY

VARIABLE  4  IS AT ELEMENT     145  NODE=         1
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE  5  IS AT ELEMENT     146  NODE=         1
   ITEM= M    COMP= X      NAME= MX

VARIABLE  6  IS AT ELEMENT     147  NODE=         1
   ITEM= M    COMP= Y      NAME= MY

VARIABLE  7  IS AT ELEMENT     148  NODE=         1
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE  8  IS AT ELEMENT     173  NODE=        87
   ITEM= F    COMP= X      NAME= FX

VARIABLE  9  IS AT ELEMENT     174  NODE=        87
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 10  IS AT ELEMENT     175  NODE=        87
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 11  IS AT ELEMENT     176  NODE=        87
   ITEM= M    COMP= X      NAME= MX

VARIABLE 12  IS AT ELEMENT     177  NODE=        87
   ITEM= M    COMP= Y      NAME= MY

VARIABLE 13  IS AT ELEMENT     178  NODE=        87
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE 14  IS AT ELEMENT     179  NODE=       130
   ITEM= F    COMP= X      NAME= FX

VARIABLE 15  IS AT ELEMENT     180  NODE=       130
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 16  IS AT ELEMENT     181  NODE=       130
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 17  IS AT ELEMENT     182  NODE=       130
   ITEM= M    COMP= X      NAME= MX

VARIABLE 18  IS AT ELEMENT     183  NODE=       130
   ITEM= M    COMP= Y      NAME= MY

VARIABLE 19  IS AT ELEMENT     184  NODE=       130
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE 20  IS AT ELEMENT     149  NODE=         9
   ITEM= F    COMP= X      NAME= FX

VARIABLE 21  IS AT ELEMENT     150  NODE=        10
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 22  IS AT ELEMENT     151  NODE=        15
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 23  IS AT ELEMENT     153  NODE=        23
   ITEM= F    COMP= X      NAME= FX

VARIABLE 24  IS AT ELEMENT     154  NODE=        28
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 25  IS AT ELEMENT     155  NODE=        37
   ITEM= F    COMP= Y      NAME= FY
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 VARIABLE 26  IS AT ELEMENT      156  NODE=       39
    ITEM= F    COMP= X      NAME= FX

 VARIABLE 27  IS AT ELEMENT      157  NODE=       44
    ITEM= F    COMP= Y      NAME= FY

 VARIABLE 28  IS AT ELEMENT      158  NODE=       45
    ITEM= F    COMP= Z      NAME= FZ

 VARIABLE 29  IS AT ELEMENT      161  NODE=      124
    ITEM= F    COMP= X      NAME= FX

 VARIABLE 30  IS AT ELEMENT      162  NODE=      129
    ITEM= F    COMP= Z      NAME= FZ

 VARIABLE 31  IS AT ELEMENT      163  NODE=       52
    ITEM= F    COMP= Y      NAME= FY

 VARIABLE 32  IS AT ELEMENT      164  NODE=       54
    ITEM= F    COMP= Z      NAME= FZ

 VARIABLE 33  IS AT ELEMENT      165  NODE=       57
    ITEM= F    COMP= X      NAME= FX

 VARIABLE 34  IS AT ELEMENT      167  NODE=       73
    ITEM= F    COMP= Z      NAME= FZ

 VARIABLE 35  IS AT ELEMENT      169  NODE=      131
    ITEM= F    COMP= X      NAME= FX

 VARIABLE 36  IS AT ELEMENT      170  NODE=      131
    ITEM= F    COMP= Z      NAME= FZ

 VARIABLE 37  IS AT ELEMENT      171  NODE=      133
    ITEM= F    COMP= X      NAME= FX

 VARIABLE 38  IS AT ELEMENT      172  NODE=      133
    ITEM= F    COMP= Z      NAME= FZ

 VARIABLE 39  IS AT ELEMENT      152  NODE=       14
    ITEM= F    COMP= Y      NAME= FY

 VARIABLE 40  IS AT ELEMENT      159  NODE=       53
    ITEM= F    COMP= Y      NAME= FY

 VARIABLE 41  IS AT ELEMENT      168  NODE=       61
    ITEM= F    COMP= Y      NAME= FY

 VARIABLE 42  IS AT ELEMENT      166  NODE=       78
    ITEM= F    COMP= Y      NAME= FY

 VARIABLE 43  IS AT ELEMENT      160  NODE=       79
    ITEM= F    COMP= Y      NAME= FY

 STORAGE COMPLETE FOR     99 DATA POINTS

        SUMMARY OF VARIABLES STORED THIS STEP AND EXTREME VALUES
VARI TYPE     IDENTIFIERS     NAME    MINIMUM     AT TIME     MAXIMUM    AT TIME

  2 ESOL   143 F    X     FX       -0.5137E-01   8.120     0.6023E-01   9.320
  3 ESOL   144 F    Y     FY       -0.1341E-01   9.620     0.1287E-01   9.960
  4 ESOL   145 F    Z     FZ       -0.3300E-01   9.580     0.3153E-01   9.980
  5 ESOL   146 M    X     MX       -0.4646E-01   9.580     0.5054E-01   9.940
  6 ESOL   147 M    Y     MY       -0.1347       8.720     0.1173       9.080
  7 ESOL   148 M    Z     MZ       -0.9743E-01   9.640     0.7757E-01   8.100
  8 ESOL   173 F    X     FX       -0.1851E-01   9.640     0.1901E-01   9.960
  9 ESOL   174 F    Y     FY       -0.7329E-02   8.800     0.7515E-02   8.340
 10 ESOL   175 F    Z     FZ       -0.5462E-02   8.780     0.4963E-02   9.860
 11 ESOL   176 M    X     MX       -0.2529E-01   8.580     0.2930E-01   8.300
 12 ESOL   177 M    Y     MY       -0.3775E-01   9.640     0.2825E-01   9.960
 13 ESOL   178 M    Z     MZ       -0.1352E-01   9.860     0.1124E-01   9.220
 14 ESOL   179 F    X     FX       -0.1091E-01   9.640     0.1166E-01   9.960
 15 ESOL   180 F    Y     FY       -0.6171E-02   8.160     0.4185E-02   8.480
 16 ESOL   181 F    Z     FZ       -0.2734E-02   8.220     0.4456E-02   8.420
 17 ESOL   182 M    X     MX       -0.2672E-02   8.220     0.4384E-02   8.420
 18 ESOL   183 M    Y     MY       -0.2450E-02   9.640     0.2788E-02   9.960
 19 ESOL   184 M    Z     MZ       -0.1622E-01   9.960     0.1490E-01   9.640
 20 ESOL   149 F    X     FX       -0.1404       9.300     0.1379       9.480
 21 ESOL   150 F    Z     FZ       -0.7360E-01   9.240     0.6813E-01   9.560
 22 ESOL   151 F    Y     FY       -0.7873E-01   9.280     0.7128E-01   9.520
 23 ESOL   153 F    X     FX       -0.1003       9.640     0.1492       8.660
 24 ESOL   154 F    Z     FZ       -0.4933E-01   9.960     0.4370E-01   9.560
 25 ESOL   155 F    Y     FY       -0.6360E-01   9.540     0.7094E-01   9.260
 26 ESOL   156 F    X     FX       -0.1879       8.220     0.1924       8.740
 27 ESOL   157 F    Y     FY       -0.1407E-01   8.620     0.2102E-01   9.080
 28 ESOL   158 F    Z     FZ       -0.5038E-01   8.940     0.4060E-01   8.720
 29 ESOL   161 F    X     FX       -0.1919E-01   9.640     0.1981E-01   9.960
 30 ESOL   162 F    Z     FZ       -0.7236E-02   8.420     0.5234E-02   8.220
 31 ESOL   163 F    Y     FY       -0.1637E-01   8.160     0.1357E-01   9.660
 32 ESOL   164 F    Z     FZ       -0.1163E-01   8.660     0.1545E-01   8.220
 33 ESOL   165 F    X     FX       -0.1833       8.780     0.1876       9.960
 34 ESOL   167 F    Z     FZ       -0.3683E-01   8.740     0.3719E-01   8.220
 35 ESOL   169 F    X     FX       -0.1122       9.640     0.1169       9.960
 36 ESOL   170 F    Z     FZ       -0.9873E-02   9.640     0.1264E-01   8.660
 37 ESOL   171 F    X     FX       -0.1218       9.640     0.1242       9.960
 38 ESOL   172 F    Z     FZ       -0.6141E-02   8.240     0.5661E-02   8.780
 39 ESOL   152 F    Y     FY       -0.7756E-03   9.640     0.7448E-03   9.480
 40 ESOL   159 F    Y     FY       -0.6065E-03   8.620     0.7274E-03   9.080
 41 ESOL   168 F    Y     FY       -0.3134E-02   8.640     0.4029E-02   9.080
 42 ESOL   166 F    Y     FY       -0.1432E-02   8.420     0.1288E-02   8.600
 43 ESOL   160 F    Y     FY       -0.3016E-03   8.300     0.2944E-03   8.600
```



```
        POST26 SUMMARY OF VARIABLE EXTREME VALUES
VARI TYPE     IDENTIFIERS     NAME    MINIMUM     AT TIME     MAXIMUM    AT TIME

  2 ESOL   143 F    X     FX       -0.5137E-01   8.120     0.6023E-01   9.320
  3 ESOL   144 F    Y     FY       -0.1341E-01   9.620     0.1287E-01   9.960
  4 ESOL   145 F    Z     FZ       -0.3300E-01   9.580     0.3153E-01   9.980
  5 ESOL   146 M    X     MX       -0.4646E-01   9.580     0.5054E-01   9.940
  6 ESOL   147 M    Y     MY       -0.1347       8.720     0.1173       9.080
  7 ESOL   148 M    Z     MZ       -0.9743E-01   9.640     0.7757E-01   8.100
  8 ESOL   173 F    X     FX       -0.1851E-01   9.640     0.1901E-01   9.960
  9 ESOL   174 F    Y     FY       -0.7329E-02   8.800     0.7515E-02   8.340
 10 ESOL   175 F    Z     FZ       -0.5462E-02   8.780     0.4963E-02   9.860
 11 ESOL   176 M    X     MX       -0.2529E-01   8.580     0.2930E-01   8.300
 12 ESOL   177 M    Y     MY       -0.3775E-01   9.640     0.2825E-01   9.960
 13 ESOL   178 M    Z     MZ       -0.1352E-01   9.860     0.1124E-01   9.220
 14 ESOL   179 F    X     FX       -0.1091E-01   9.640     0.1166E-01   9.960
 15 ESOL   180 F    Y     FY       -0.6171E-02   8.160     0.4185E-02   8.480
 16 ESOL   181 F    Z     FZ       -0.2734E-02   8.220     0.4456E-02   8.420
 17 ESOL   182 M    X     MX       -0.2672E-02   8.220     0.4384E-02   8.420
 18 ESOL   183 M    Y     MY       -0.2450E-02   9.640     0.2788E-02   9.960
 19 ESOL   184 M    Z     MZ       -0.1622E-01   9.960     0.1490E-01   9.640
 20 ESOL   149 F    X     FX       -0.1404       9.300     0.1379       9.480
 21 ESOL   150 F    Z     FZ       -0.7360E-01   9.240     0.6813E-01   9.560
 22 ESOL   151 F    Y     FY       -0.7873E-01   9.280     0.7128E-01   9.520
 23 ESOL   153 F    X     FX       -0.1003       9.640     0.1492       8.660
 24 ESOL   154 F    Z     FZ       -0.4933E-01   9.960     0.4370E-01   9.560
 25 ESOL   155 F    Y     FY       -0.6360E-01   9.540     0.7094E-01   9.260
 26 ESOL   156 F    X     FX       -0.1879       8.220     0.1924       8.740
 27 ESOL   157 F    Y     FY       -0.1407E-01   8.620     0.2102E-01   9.080
 28 ESOL   158 F    Z     FZ       -0.5038E-01   8.940     0.4060E-01   8.720
 29 ESOL   161 F    X     FX       -0.1919E-01   9.640     0.1981E-01   9.960
 30 ESOL   162 F    Z     FZ       -0.7236E-02   8.420     0.5234E-02   8.220
 31 ESOL   163 F    Y     FY       -0.1637E-01   8.160     0.1357E-01   9.660
 32 ESOL   164 F    Z     FZ       -0.1163E-01   8.660     0.1545E-01   8.220
 33 ESOL   165 F    X     FX       -0.1833       8.780     0.1876       9.960
 34 ESOL   167 F    Z     FZ       -0.3683E-01   8.740     0.3719E-01   8.220
 35 ESOL   169 F    X     FX       -0.1122       9.640     0.1169       9.960
 36 ESOL   170 F    Z     FZ       -0.9873E-02   9.640     0.1264E-01   8.660
 37 ESOL   171 F    X     FX       -0.1218       9.640     0.1242       9.960
 38 ESOL   172 F    Z     FZ       -0.6141E-02   8.240     0.5661E-02   8.780
 39 ESOL   152 F    Y     FY       -0.7756E-03   9.640     0.7448E-03   9.480
 40 ESOL   159 F    Y     FY       -0.6065E-03   8.620     0.7274E-03   9.080
 41 ESOL   168 F    Y     FY       -0.3134E-02   8.640     0.4029E-02   9.080
 42 ESOL   166 F    Y     FY       -0.1432E-02   8.420     0.1288E-02   8.600
 43 ESOL   160 F    Y     FY       -0.3016E-03   8.300     0.2944E-03   8.600

 ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2tfx.db
  FOR POSSIBLE RESUME FROM THIS POINT


 ***** ROUTINE COMPLETED *****  CP =      16596.070


 *****  ANSYS SOLUTION ROUTINE  *****

 PERFORM AN EXPANSION PASS


 EXPAND   100 SOLUTIONS
  IN THE RANGE FROM  0.50000      TO  0.60000
  CALCULATE ELEMENT RESULTS AS WELL AS THE NODAL DOF SOLUTION

 PRINT BASI ITEMS WITH A FREQUENCY OF NONE
   FOR ALL APPLICABLE ENTITIES

 *****  ANSYS SOLVE    COMMAND  *****
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
 40416-2          VERSION=SUN4SPARC      05:24:48  OCT 11, 1995 CP=  16586.110
 FOR SUPPORT CALL                    PHONE                        FAX

  Time-history analysis of coupled system (pressurizer spray line)

 **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**

                    S O L U T I O N   O P T I O N S

   PROBLEM DIMENSIONALITY. . . . . .3-D
   DEGREES OF FREEDOM. . . . . UX   UY   UZ   ROTX ROTY ROTZ
   ANALYSIS TYPE . . . . . .TRANSIENT
      SOLUTION METHOD. . . . . .REDUCED
      EXPANSION PASS . . . . . .ON

                    L O A D   S T E P   O P T I O N S

   LOAD STEP NUMBER. . . . . 1
   NUMBER OF SOLUTIONS TO BE EXPANDED. . . . . 100
      RANGE. . . . . 0.50000      TO  0.60000
   ELEMENT RESULTS CALCULATION . . . . . ON
   PRINT OUTPUT CONTROLS
      ITEM       FREQUENCY   COMPONENT
      BASI       NONE
   DATABASE OUTPUT CONTROLS
      ITEM       FREQUENCY   COMPONENT
      MSOL       LAST
```

```
  *** ELEMENT RESULT CALCULATION TIMES
 TYPE  NUMBER    ENAME       TOTAL CP  AVE CP

    1     120   PIPE16          0.541    0.005
    2      22   PIPE18          0.169    0.008
    3      10   COMBIN14        0.051    0.005
    4      12   COMBIN14        0.000    0.000
    5      11   COMBIN14        0.010    0.001
    6       3   COMBIN14        0.000    0.000
    7       3   COMBIN14        0.000    0.000
    8       3   COMBIN14        0.010    0.003
   30      31   MASS21          0.020    0.001
   71      12   BEAM4           0.069    0.006
   72       5   MASS21          0.010    0.002

  *** NODAL LOAD CALCULATION TIMES
 TYPE  NUMBER    ENAME       TOTAL CP  AVE CP

    1     120   PIPE16          0.111    0.001
    2      22   PIPE18          0.010    0.000
    3      10   COMBIN14        0.000    0.000
    4      12   COMBIN14        0.020    0.002
    5      11   COMBIN14        0.011    0.001
    6       3   COMBIN14        0.000    0.000
    7       3   COMBIN14        0.000    0.000
    8       3   COMBIN14        0.000    0.000
   30      31   MASS21          0.010    0.000
   71      12   BEAM4           0.010    0.001
   72       5   MASS21          0.000    0.000


*** ANSYS BINARY FILE STATISTICS
 BUFFER SIZE USED= 4096
      33.406 MB WRITTEN ON RESULTS FILE: pb2tfx.rst

ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2tfx.db
 FOR POSSIBLE RESUME FROM THIS POINT

FINISH SOLUTION PROCESSING


***** ROUTINE COMPLETED *****  CP =      16811.280


1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2            VERSION=SUN4SPARC     05:32:24  OCT 11, 1995 CP=  16811.300
FOR SUPPORT CALL                    PHONE                    FAX

 Time-history analysis of coupled system (pressurizer spray line)

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


        ***** TIME-HISTORY POSTPROCESSOR (POST26) *****

ALL POST26 SPECIFICATIONS ARE RESET TO INITIAL DEFAULTS

MAXIMUM NUMBER OF VARIABLES= 43

VARIABLE  2  IS AT ELEMENT      143  NODE=        1
   ITEM= F    COMP= X      NAME= FX

VARIABLE  3  IS AT ELEMENT      144  NODE=        1
   ITEM= F    COMP= Y      NAME= FY

VARIABLE  4  IS AT ELEMENT      145  NODE=        1
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE  5  IS AT ELEMENT      146  NODE=        1
   ITEM= M    COMP= X      NAME= MX

VARIABLE  6  IS AT ELEMENT      147  NODE=        1
   ITEM= M    COMP= Y      NAME= MY

VARIABLE  7  IS AT ELEMENT      148  NODE=        1
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE  8  IS AT ELEMENT      173  NODE=       87
   ITEM= F    COMP= X      NAME= FX

VARIABLE  9  IS AT ELEMENT      174  NODE=       87
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 10  IS AT ELEMENT      175  NODE=       87
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 11  IS AT ELEMENT      176  NODE=       87
   ITEM= M    COMP= X      NAME= MX

VARIABLE 12  IS AT ELEMENT      177  NODE=       87
   ITEM= M    COMP= Y      NAME= MY

VARIABLE 13  IS AT ELEMENT      178  NODE=       87
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE 14  IS AT ELEMENT      179  NODE=      130
   ITEM= F    COMP= X      NAME= FX

VARIABLE 15  IS AT ELEMENT      180  NODE=      130
```



```
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 16  IS AT ELEMENT      181  NODE=      130
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 17  IS AT ELEMENT      182  NODE=      130
   ITEM= M    COMP= X      NAME= MX

VARIABLE 18  IS AT ELEMENT      183  NODE=      130
   ITEM= M    COMP= Y      NAME= MY

VARIABLE 19  IS AT ELEMENT      184  NODE=      130
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE 20  IS AT ELEMENT      149  NODE=        9
   ITEM= F    COMP= X      NAME= FX

VARIABLE 21  IS AT ELEMENT      150  NODE=       10
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 22  IS AT ELEMENT      151  NODE=       15
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 23  IS AT ELEMENT      153  NODE=       23
   ITEM= F    COMP= X      NAME= FX

VARIABLE 24  IS AT ELEMENT      154  NODE=       28
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 25  IS AT ELEMENT      155  NODE=       37
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 26  IS AT ELEMENT      156  NODE=       39
   ITEM= F    COMP= X      NAME= FX

VARIABLE 27  IS AT ELEMENT      157  NODE=       44
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 28  IS AT ELEMENT      158  NODE=       45
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 29  IS AT ELEMENT      161  NODE=      124
   ITEM= F    COMP= X      NAME= FX

VARIABLE 30  IS AT ELEMENT      162  NODE=      129
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 31  IS AT ELEMENT      163  NODE=       52
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 32  IS AT ELEMENT      164  NODE=       54
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 33  IS AT ELEMENT      165  NODE=       57
   ITEM= F    COMP= X      NAME= FX

VARIABLE 34  IS AT ELEMENT      167  NODE=       73
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 35  IS AT ELEMENT      169  NODE=      131
   ITEM= F    COMP= X      NAME= FX

VARIABLE 36  IS AT ELEMENT      170  NODE=      131
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 37  IS AT ELEMENT      171  NODE=      133
   ITEM= F    COMP= X      NAME= FX

VARIABLE 38  IS AT ELEMENT      172  NODE=      133
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 39  IS AT ELEMENT      152  NODE=       14
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 40  IS AT ELEMENT      159  NODE=       53
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 41  IS AT ELEMENT      168  NODE=       61
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 42  IS AT ELEMENT      166  NODE=       78
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 43  IS AT ELEMENT      160  NODE=       79
   ITEM= F    COMP= Y      NAME= FY

STORAGE COMPLETE FOR    100 DATA POINTS

        SUMMARY OF VARIABLES STORED THIS STEP AND EXTREME VALUES
VARI TYPE    IDENTIFIERS     NAME   MINIMUM     AT TIME     MAXIMUM    AT TIME

  2 ESOL   143 F    X      FX      -0.3888E-01  11.68     0.4132E-01  11.84
  3 ESOL   144 F    Y      FY      -0.9908E-02  11.00     0.1294E-01  11.36
  4 ESOL   145 F    Z      FZ      -0.3186E-01  10.30     0.3537E-01  10.66
  5 ESOL   146 M    X      MX      -0.4821E-01  10.32     0.5513E-01  10.62
  6 ESOL   147 M    Y      MY      -0.1137      11.86     0.1072      11.02
  7 ESOL   148 M    Z      MZ      -0.6729E-01  11.48     0.9454E-01  10.60
  8 ESOL   173 F    X      FX      -0.2322E-01  11.34     0.2274E-01  11.20
  9 ESOL   174 F    Y      FY      -0.1754E-01  10.42     0.1577E-01  10.66
 10 ESOL   175 F    Z      FZ      -0.6369E-02  10.08     0.5976E-02  10.54
 11 ESOL   176 M    X      MX      -0.5158E-01  10.46     0.5742E-01  10.42
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 12 ESOL   177 M     Y     MY        -0.3500E-01  11.34     0.3436E-01  11.20
 13 ESOL   178 M     Z     MZ        -0.1252E-01  10.54     0.1634E-01  10.08
 14 ESOL   179 F     X     FX        -0.1371E-01  10.08     0.1325E-01  11.20
 15 ESOL   180 F     Y     FY        -0.3824E-02  10.54     0.4748E-02  10.20
 16 ESOL   181 F     Z     FZ        -0.2957E-02  10.34     0.3170E-02  10.54
 17 ESOL   182 M     X     MX        -0.2900E-02  10.34     0.3122E-02  10.54
 18 ESOL   183 M     Y     MY        -0.3454E-02  10.08     0.2890E-02  11.20
 19 ESOL   184 M     Z     MZ        -0.1830E-01  10.54     0.1915E-01  10.08
 20 ESOL   149 F     X     FX        -0.1214      10.74     0.1158      10.28
 21 ESOL   150 F     Z     FZ        -0.7886E-01  10.62     0.8330E-01  11.00
 22 ESOL   151 F     Y     FY        -0.7443E-01  10.70     0.8805E-01  11.00
 23 ESOL   153 F     X     FX        -0.8911E-01  11.00     0.8123E-01  10.56
 24 ESOL   154 F     Z     FZ        -0.5106E-01  10.68     0.5692E-01  10.28
 25 ESOL   155 F     Y     FY        -0.7994E-01  10.98     0.6163E-01  10.70
 26 ESOL   156 F     X     FX        -0.1529      11.50     0.1621      12.02
 27 ESOL   157 F     Y     FY        -0.1739E-01  11.84     0.1775E-01  12.02
 28 ESOL   158 F     Z     FZ        -0.4474E-01  11.54     0.5425E-01  11.34
 29 ESOL   161 F     X     FX        -0.2333E-01  11.34     0.2329E-01  11.20
 30 ESOL   162 F     Z     FZ        -0.5808E-02  11.38     0.5167E-02  10.34
 31 ESOL   163 F     Y     FY        -0.1224E-01  11.64     0.1340E-01  10.10
 32 ESOL   164 F     Z     FZ        -0.1446E-01  10.30     0.1333E-01  10.50
 33 ESOL   165 F     X     FX        -0.2393      11.34     0.2399      10.54
 34 ESOL   167 F     Z     FZ        -0.2789E-01  10.22     0.3035E-01  11.50
 35 ESOL   169 F     X     FX        -0.1351      11.34     0.1412      11.20
 36 ESOL   170 F     Z     FZ        -0.1930E-01  10.42     0.1869E-01  10.54
 37 ESOL   171 F     X     FX        -0.1563      11.34     0.1553      11.20
 38 ESOL   172 F     Z     FZ        -0.4086E-02  11.54     0.5057E-02  10.26
 39 ESOL   152 F     Y     FY        -0.5925E-03  11.48     0.7766E-03  10.60
 40 ESOL   159 F     Y     FY        -0.6573E-03  10.84     0.6218E-03  10.70
 41 ESOL   168 F     Y     FY        -0.3694E-02  10.84     0.3606E-02  10.70
 42 ESOL   166 F     Y     FY        -0.1118E-02  11.38     0.1126E-02  11.80
 43 ESOL   160 F     Y     FY        -0.5780E-03  10.42     0.5320E-03  10.46

          POST26 SUMMARY OF VARIABLE EXTREME VALUES
VARI TYPE     IDENTIFIERS     NAME      MINIMUM     AT TIME     MAXIMUM    AT TIME

  2 ESOL   143 F     X     FX        -0.3888E-01  11.68     0.4132E-01  11.84
  3 ESOL   144 F     Y     FY        -0.9908E-02  11.00     0.1294E-01  11.56
  4 ESOL   145 F     Z     FZ        -0.3186E-01  10.30     0.3537E-01  10.66
  5 ESOL   146 M     X     MX        -0.4821E-01  10.32     0.5512E-01  10.62
  6 ESOL   147 M     Y     MY        -0.1137      11.86     0.1072      11.02
  7 ESOL   148 M     Z     MZ        -0.6729E-01  11.48     0.9454E-01  10.60
  8 ESOL   173 F     X     FX        -0.2322E-01  11.34     0.2274E-01  11.20
  9 ESOL   174 F     Y     FY        -0.1754E-01  10.42     0.1577E-01  10.46
 10 ESOL   175 F     Z     FZ        -0.6389E-02  10.08     0.5976E-02  10.54
 11 ESOL   176 M     X     MX        -0.5158E-01  10.46     0.5742E-01  10.42
 12 ESOL   177 M     Y     MY        -0.3500E-01  11.34     0.3436E-01  11.20
 13 ESOL   178 M     Z     MZ        -0.1252E-01  10.54     0.1634E-01  10.08
 14 ESOL   179 F     X     FX        -0.1371E-01  10.08     0.1325E-01  11.20
 15 ESOL   180 F     Y     FY        -0.3824E-02  10.54     0.4748E-02  10.20
 16 ESOL   181 F     Z     FZ        -0.2957E-02  10.34     0.3170E-02  10.54
 17 ESOL   182 M     X     MX        -0.2900E-02  10.34     0.3122E-02  10.54
 18 ESOL   183 M     Y     MY        -0.3454E-02  10.08     0.2890E-02  11.20
 19 ESOL   184 M     Z     MZ        -0.1830E-01  10.54     0.1915E-01  10.08
 20 ESOL   149 F     X     FX        -0.1214      10.74     0.1158      10.28
 21 ESOL   150 F     Z     FZ        -0.7886E-01  10.62     0.8330E-01  11.00
 22 ESOL   151 F     Y     FY        -0.7443E-01  10.70     0.8805E-01  11.00
 23 ESOL   153 F     X     FX        -0.8911E-01  11.00     0.8123E-01  10.56
 24 ESOL   154 F     Z     FZ        -0.5106E-01  10.68     0.5692E-01  10.28
 25 ESOL   155 F     Y     FY        -0.7994E-01  10.98     0.6163E-01  10.70
 26 ESOL   156 F     X     FX        -0.1529      11.50     0.1621      12.02
 27 ESOL   157 F     Y     FY        -0.1739E-01  11.84     0.1775E-01  12.02
 28 ESOL   158 F     Z     FZ        -0.4474E-01  11.54     0.5425E-01  11.34
 29 ESOL   161 F     X     FX        -0.2333E-01  11.34     0.2329E-01  11.20
 30 ESOL   162 F     Z     FZ        -0.5808E-02  11.38     0.5167E-02  10.34
 31 ESOL   163 F     Y     FY        -0.1224E-01  11.64     0.1340E-01  10.10
 32 ESOL   164 F     Z     FZ        -0.1446E-01  10.30     0.1333E-01  10.50
 33 ESOL   165 F     X     FX        -0.2393      11.34     0.2399      10.54
 34 ESOL   167 F     Z     FZ        -0.2789E-01  10.22     0.3035E-01  11.50
 35 ESOL   169 F     X     FX        -0.1351      11.34     0.1412      11.20
 36 ESOL   170 F     Z     FZ        -0.1930E-01  10.42     0.1869E-01  10.54
 37 ESOL   171 F     X     FX        -0.1563      11.34     0.1553      11.20
 38 ESOL   172 F     Z     FZ        -0.4086E-02  11.54     0.5057E-02  10.26
 39 ESOL   152 F     Y     FY        -0.5925E-03  11.48     0.7766E-03  10.60
 40 ESOL   159 F     Y     FY        -0.6573E-03  10.84     0.6218E-03  10.70
 41 ESOL   168 F     Y     FY        -0.3694E-02  10.84     0.3606E-02  10.70
 42 ESOL   166 F     Y     FY        -0.1118E-02  11.38     0.1126E-02  11.80
 43 ESOL   160 F     Y     FY        -0.5780E-03  10.42     0.5320E-03  10.46

ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2tfx.db
 FOR POSSIBLE RESUME FROM THIS POINT


***** ROUTINE COMPLETED *****  CP =      16823.160



*****  ANSYS SOLUTION ROUTINE  *****

PERFORM AN EXPANSION PASS


EXPAND   100 SOLUTIONS
 IN THE RANGE FROM  0.60000      TO  0.70000
 CALCULATE ELEMENT RESULTS AS WELL AS THE NODAL DOF SOLUTION

PRINT BASI ITEMS WITH A FREQUENCY OF NONE
  FOR ALL APPLICABLE ENTITIES

*****  ANSYS SOLVE    COMMAND  *****
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1

 *****  ANSYS  -  ENGINEERING  ANALYSIS  SYSTEM  REVISION 5.0      *****
 40416-2           VERSION=SUN4SPARC      05:32:51  OCT 11, 1995 CP=  16823.180
 FOR SUPPORT CALL                      PHONE                        FAX

  Time-history analysis of coupled system (pressurizer spray line)

 **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**

                        S O L U T I O N   O P T I O N S

   PROBLEM DIMENSIONALITY. . . . . . . . . . . . . .3-D
   DEGREES OF FREEDOM. . . . . . UX   UY   UZ   ROTX ROTY ROTZ
   ANALYSIS TYPE . . . . . . . . . . . . . . . . . .TRANSIENT
      SOLUTION METHOD. . . . . . . . . . . . . . . .REDUCED
      EXPANSION PASS . . . . . . . . . . . . . . . .ON

                        L O A D   S T E P   O P T I O N S

   LOAD STEP NUMBER. . . . . . . . . . . . . . . . .    1
   NUMBER OF SOLUTIONS TO BE EXPANDED. . . . . . .  100
     RANGE. . . . . . . . . . . . . . . . . . . . . 0.60000     TO  0.70000
   ELEMENT RESULTS CALCULATION . . . . . . . . . .   ON
   PRINT OUTPUT CONTROLS
      ITEM      FREQUENCY    COMPONENT
      BASI        NONE
   DATABASE OUTPUT CONTROLS
      ITEM      FREQUENCY    COMPONENT
      NSOL        LAST


    *** ELEMENT RESULT CALCULATION TIMES
  TYPE  NUMBER    ENAME       TOTAL CP  AVE CP

     1     120  PIPE16          0.551    0.005
     2      22  PIPE18          0.189    0.009
     3      10  COMBIN14        0.000    0.000
     4      12  COMBIN14        0.030    0.003
     5      11  COMBIN14        0.010    0.001
     6       3  COMBIN14        0.000    0.000
     7       3  COMBIN14        0.000    0.000
     8       3  COMBIN14        0.000    0.000
    30      31  MASS21          0.049    0.002
    71      12  BEAM4           0.049    0.004
    72       5  MASS21          0.000    0.000

    *** NODAL LOAD CALCULATION TIMES
  TYPE  NUMBER    ENAME       TOTAL CP  AVE CP

     1     120  PIPE16          0.050    0.000
     2      22  PIPE18          0.031    0.001
     3      10  COMBIN14        0.000    0.000
     4      12  COMBIN14        0.000    0.000
     5      11  COMBIN14        0.010    0.001
     6       3  COMBIN14        0.000    0.000
     7       3  COMBIN14        0.000    0.000
     8       3  COMBIN14        0.000    0.000
    30      31  MASS21          0.021    0.001
    71      12  BEAM4           0.020    0.002
    72       5  MASS21          0.000    0.000


 *** ANSYS BINARY FILE STATISTICS
  BUFFER SIZE USED=  4096
        33.078 MB WRITTEN ON RESULTS FILE: pb2tfx.rst

 ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2tfx.db
  FOR POSSIBLE RESUME FROM THIS POINT

 FINISH SOLUTION PROCESSING


 ***** ROUTINE COMPLETED *****  CP =      17036.430


1

 *****  ANSYS  -  ENGINEERING  ANALYSIS  SYSTEM  REVISION 5.0      *****
 40416-2           VERSION=SUN4SPARC      05:40:27  OCT 11, 1995 CP=  17036.460
 FOR SUPPORT CALL                      PHONE                        FAX

  Time-history analysis of coupled system (pressurizer spray line)

 **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**

          ***** TIME-HISTORY POSTPROCESSOR (POST26) *****

 ALL POST26 SPECIFICATIONS ARE RESET TO INITIAL DEFAULTS

 MAXIMUM NUMBER OF VARIABLES= 43

 VARIABLE  2  IS AT ELEMENT     143  NODE=         1
    ITEM= F    COMP= X      NAME= FX

 VARIABLE  3  IS AT ELEMENT     144  NODE=         1
    ITEM= F    COMP= Y      NAME= FY

 VARIABLE  4  IS AT ELEMENT     145  NODE=         1
    ITEM= F    COMP= Z      NAME= FZ
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VARIABLE  5  IS AT ELEMENT     146  NODE=       1
   ITEM= M    COMP= X      NAME= MX

VARIABLE  6  IS AT ELEMENT     147  NODE=       1
   ITEM= M    COMP= Y      NAME= MY

VARIABLE  7  IS AT ELEMENT     148  NODE=       1
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE  8  IS AT ELEMENT     173  NODE=      87
   ITEM= F    COMP= X      NAME= FX

VARIABLE  9  IS AT ELEMENT     174  NODE=      87
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 10  IS AT ELEMENT     175  NODE=      87
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 11  IS AT ELEMENT     176  NODE=      87
   ITEM= M    COMP= X      NAME= MX

VARIABLE 12  IS AT ELEMENT     177  NODE=      87
   ITEM= M    COMP= Y      NAME= MY

VARIABLE 13  IS AT ELEMENT     178  NODE=      87
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE 14  IS AT ELEMENT     179  NODE=     130
   ITEM= F    COMP= X      NAME= FX

VARIABLE 15  IS AT ELEMENT     180  NODE=     130
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 16  IS AT ELEMENT     181  NODE=     130
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 17  IS AT ELEMENT     182  NODE=     130
   ITEM= M    COMP= X      NAME= MX

VARIABLE 18  IS AT ELEMENT     183  NODE=     130
   ITEM= M    COMP= Y      NAME= MY

VARIABLE 19  IS AT ELEMENT     184  NODE=     130
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE 20  IS AT ELEMENT     149  NODE=       9
   ITEM= F    COMP= X      NAME= FX

VARIABLE 21  IS AT ELEMENT     150  NODE=      10
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 22  IS AT ELEMENT     151  NODE=      15
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 23  IS AT ELEMENT     153  NODE=      23
   ITEM= F    COMP= X      NAME= FX

VARIABLE 24  IS AT ELEMENT     154  NODE=      28
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 25  IS AT ELEMENT     155  NODE=      37
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 26  IS AT ELEMENT     156  NODE=      39
   ITEM= F    COMP= X      NAME= FX

VARIABLE 27  IS AT ELEMENT     157  NODE=      44
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 28  IS AT ELEMENT     158  NODE=      45
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 29  IS AT ELEMENT     161  NODE=     124
   ITEM= F    COMP= X      NAME= FX

VARIABLE 30  IS AT ELEMENT     162  NODE=     129
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 31  IS AT ELEMENT     163  NODE=      52
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 32  IS AT ELEMENT     164  NODE=      54
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 33  IS AT ELEMENT     165  NODE=      57
   ITEM= F    COMP= X      NAME= FX

VARIABLE 34  IS AT ELEMENT     167  NODE=      73
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 35  IS AT ELEMENT     169  NODE=     131
   ITEM= F    COMP= X      NAME= FX

VARIABLE 36  IS AT ELEMENT     170  NODE=     131
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 37  IS AT ELEMENT     171  NODE=     133
   ITEM= F    COMP= X      NAME= FX

VARIABLE 38  IS AT ELEMENT     172  NODE=     133
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   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 39  IS AT ELEMENT     152  NODE=      14
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 40  IS AT ELEMENT     159  NODE=      53
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 41  IS AT ELEMENT     168  NODE=      61
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 42  IS AT ELEMENT     166  NODE=      78
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 43  IS AT ELEMENT     160  NODE=      79
   ITEM= F    COMP= Y      NAME= FY

STORAGE COMPLETE FOR     99 DATA POINTS
```

SUMMARY OF VARIABLES STORED THIS STEP AND EXTREME VALUES

VARI	TYPE	IDENTIFIERS			NAME	MINIMUM	AT TIME	MAXIMUM	AT TIME
2	ESOL	143	F	X	FX	-0.4424E-01	12.42	0.5340E-01	13.26
3	ESOL	144	F	Y	FY	-0.8208E-02	12.20	0.1105E-01	12.04
4	ESOL	145	F	Z	FZ	-0.1828E-01	13.58	0.2186E-01	13.92
5	ESOL	146	M	X	MX	-0.1950E-01	12.32	0.2439E-01	12.04
6	ESOL	147	M	Y	MY	-0.1431	13.94	0.1353	13.58
7	ESOL	148	M	Z	MZ	-0.7106E-01	14.00	0.7511E-01	12.04
8	ESOL	173	F	X	FX	-0.1226E-01	13.18	0.1257E-01	13.06
9	ESOL	174	F	Y	FY	-0.7097E-02	12.84	0.5542E-02	12.56
10	ESOL	175	F	Z	FZ	-0.4250E-02	13.18	0.3019E-02	12.98
11	ESOL	176	M	X	MX	-0.1886E-01	12.56	0.2585E-01	12.84
12	ESOL	177	M	Y	MY	-0.1703E-01	12.84	0.1897E-01	13.06
13	ESOL	178	M	Z	MZ	-0.8413E-02	13.06	0.8535E-02	12.92
14	ESOL	179	F	X	FX	-0.6733E-02	12.84	0.7046E-02	13.06
15	ESOL	180	F	Y	FY	-0.4709E-02	12.72	0.4405E-02	12.54
16	ESOL	181	F	Z	FZ	-0.3486E-02	12.54	0.3561E-02	12.72
17	ESOL	182	M	X	MX	-0.3426E-02	12.54	0.3504E-02	12.72
18	ESOL	183	M	Y	MY	-0.1672E-02	12.92	0.1715E-02	13.06
19	ESOL	184	M	Z	MZ	-0.9695E-02	13.06	0.9218E-02	12.84
20	ESOL	149	F	X	FX	-0.1213	14.00	0.1144	12.40
21	ESOL	150	F	Z	FZ	-0.4378E-01	13.92	0.3877E-01	13.54
22	ESOL	151	F	Y	FY	-0.5400E-01	13.26	0.5464E-01	12.38
23	ESOL	153	F	X	FX	-0.8220E-01	13.48	0.9736E-01	13.90
24	ESOL	154	F	Z	FZ	-0.2618E-01	12.04	0.2306E-01	12.36
25	ESOL	155	F	Y	FY	-0.4906E-01	12.38	0.4436E-01	12.58
26	ESOL	156	F	X	FX	-0.1560	13.62	0.1501	12.04
27	ESOL	157	F	Y	FY	-0.1670E-01	12.22	0.1725E-01	12.04
28	ESOL	158	F	Z	FZ	-0.3783E-01	13.60	0.4272E-01	12.04
29	ESOL	161	F	X	FX	-0.1190E-01	12.84	0.1214E-01	13.06
30	ESOL	162	F	Z	FZ	-0.5807E-02	12.72	0.5825E-02	12.54
31	ESOL	163	F	Y	FY	-0.1030E-01	12.72	0.1082E-01	13.34
32	ESOL	164	F	Z	FZ	-0.8534E-02	12.72	0.1178E-01	12.92
33	ESOL	165	F	X	FX	-0.1364	13.18	0.1008	12.96
34	ESOL	167	F	Z	FZ	-0.2638E-01	12.04	0.2860E-01	13.62

POST26 SUMMARY OF VARIABLE EXTREME VALUES

VARI	TYPE	IDENTIFIERS			NAME	MINIMUM	AT TIME	MAXIMUM	AT TIME
2	ESOL	143	F	X	FX	-0.4424E-01	12.42	0.5340E-01	13.26
3	ESOL	144	F	Y	FY	-0.8208E-02	12.20	0.1105E-01	12.04
4	ESOL	145	F	Z	FZ	-0.1828E-01	13.58	0.2186E-01	13.92
5	ESOL	146	M	X	MX	-0.1950E-01	12.32	0.2439E-01	12.04
6	ESOL	147	M	Y	MY	-0.1431	13.94	0.1353	13.58
7	ESOL	148	M	Z	MZ	-0.7106E-01	14.00	0.7511E-01	12.04
8	ESOL	173	F	X	FX	-0.1226E-01	13.18	0.1257E-01	13.06
9	ESOL	174	F	Y	FY	-0.7097E-02	12.84	0.5542E-02	12.56
10	ESOL	175	F	Z	FZ	-0.4250E-02	13.18	0.3019E-02	12.98
11	ESOL	176	M	X	MX	-0.1886E-01	12.56	0.2585E-01	12.84
12	ESOL	177	M	Y	MY	-0.1703E-01	12.84	0.1897E-01	13.06
13	ESOL	178	M	Z	MZ	-0.8413E-02	13.06	0.8535E-02	12.92
14	ESOL	179	F	X	FX	-0.6733E-02	12.84	0.7046E-02	13.06
15	ESOL	180	F	Y	FY	-0.4709E-02	12.72	0.4405E-02	12.54
16	ESOL	181	F	Z	FZ	-0.3486E-02	12.54	0.3561E-02	12.72
17	ESOL	182	M	X	MX	-0.3426E-02	12.54	0.3504E-02	12.72
18	ESOL	183	M	Y	MY	-0.1672E-02	12.92	0.1715E-02	13.06
19	ESOL	184	M	Z	MZ	-0.9695E-02	13.06	0.9218E-02	12.84
20	ESOL	149	F	X	FX	-0.1213	14.00	0.1144	12.40
21	ESOL	150	F	Z	FZ	-0.4378E-01	13.92	0.3877E-01	13.54
22	ESOL	151	F	Y	FY	-0.5400E-01	13.26	0.5464E-01	12.38
23	ESOL	153	F	X	FX	-0.8220E-01	13.48	0.9736E-01	13.90
24	ESOL	154	F	Z	FZ	-0.2618E-01	12.04	0.2306E-01	12.36
25	ESOL	155	F	Y	FY	-0.4906E-01	12.38	0.4436E-01	12.58
26	ESOL	156	F	X	FX	-0.1560	13.62	0.1501	12.04
27	ESOL	157	F	Y	FY	-0.1670E-01	12.22	0.1725E-01	12.04
28	ESOL	158	F	Z	FZ	-0.3783E-01	13.60	0.4272E-01	12.04
29	ESOL	161	F	X	FX	-0.1190E-01	12.84	0.1214E-01	13.06
30	ESOL	162	F	Z	FZ	-0.5807E-02	12.72	0.5825E-02	12.54
31	ESOL	163	F	Y	FY	-0.1030E-01	12.72	0.1082E-01	13.34
32	ESOL	164	F	Z	FZ	-0.8534E-02	12.72	0.1178E-01	12.92
33	ESOL	165	F	X	FX	-0.1364	13.18	0.1008	12.96
34	ESOL	167	F	Z	FZ	-0.2638E-01	12.04	0.2860E-01	13.62

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 35 ESOL   169 F     X     FX        -0.6550E-01  13.18      0.6701E-01  13.06
 36 ESOL   170 F     Z     FZ        -0.1005E-01  12.92      0.8495E-02  12.72
 37 ESOL   171 F     X     FX        -0.7454E-01  13.18      0.7442E-01  13.06
 38 ESOL   172 F     Z     FZ        -0.4168E-02  13.62      0.3393E-02  13.20
 39 ESOL   152 F     Y     FY        -0.6713E-03  14.00      0.5943E-03  12.04
 40 ESOL   159 F     Y     FY        -0.5111E-03  12.18      0.4191E-03  12.34
 41 ESOL   168 F     Y     FY        -0.2668E-02  12.18      0.2273E-02  12.04
 42 ESOL   166 F     Y     FY        -0.1344E-02  12.72      0.1383E-02  12.54
 43 ESOL   160 F     Y     FY        -0.2872E-03  12.84      0.2220E-03  12.16

ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2tfx.db
 FOR POSSIBLE RESUME FROM THIS POINT


***** ROUTINE COMPLETED *****  CP =     17049.400



*****  ANSYS SOLUTION ROUTINE  *****


PERFORM AN EXPANSION PASS


EXPAND   100 SOLUTIONS
 IN THE RANGE FROM  0.70000     TO  0.80000
 CALCULATE ELEMENT RESULTS AS WELL AS THE NODAL DOF SOLUTION

PRINT BASI ITEMS WITH A FREQUENCY OF NONE
  FOR ALL APPLICABLE ENTITIES

*****  ANSYS SOLVE    COMMAND  *****
1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC      05:40:58  OCT 11, 1995 CP=  17049.430
FOR SUPPORT CALL                    PHONE                    FAX

 Time-history analysis of coupled system (presurizer spray line)

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**

                    S O L U T I O N   O P T I O N S

  PROBLEM DIMENSIONALITY. . . . . . . . . . . . . .3-D
  DEGREES OF FREEDOM. . . . . . UX   UY   UZ   ROTX ROTY ROTZ
  ANALYSIS TYPE . . . . . . . . . . . . . . . . . .TRANSIENT
     SOLUTION METHOD. . . . . . . . . . . . . . . .REDUCED
     EXPANSION PASS . . . . . . . . . . . . . . . .ON

                    L O A D   S T E P   O P T I O N S

  LOAD STEP NUMBER. . . . . . . . . . . . . . . .     1
  NUMBER OF SOLUTIONS TO BE EXPANDED. . . . . . .   100
     RANGE. . . . . . . . . . . . . . . . . . . . 0.70000      TO  0.80000
  ELEMENT RESULTS CALCULATION . . . . . . . . . .    ON
  PRINT OUTPUT CONTROLS
     ITEM       FREQUENCY    COMPONENT
     BASI       NONE
  DATABASE OUTPUT CONTROLS
     ITEM       FREQUENCY    COMPONENT
     NSOL       LAST


  *** ELEMENT RESULT CALCULATION TIMES
 TYPE  NUMBER    ENAME      TOTAL CP  AVE CP

    1     120   PIPE16        0.598    0.005
    2      22   PIPE18        0.179    0.008
    3      10   COMBIN14      0.010    0.001
    4      12   COMBIN14      0.000    0.000
    5      11   COMBIN14      0.000    0.000
    6       3   COMBIN14      0.000    0.000
    7       3   COMBIN14      0.000    0.000
    8       3   COMBIN14      0.000    0.000
   30      31   MASS21        0.030    0.001
   71      12   BEAM4         0.050    0.004
   72       5   MASS21        0.000    0.000

  *** NODAL LOAD CALCULATION TIMES
 TYPE  NUMBER    ENAME      TOTAL CP  AVE CP

    1     120   PIPE16        0.051    0.000
    2      22   PIPE18        0.040    0.002
    3      10   COMBIN14      0.011    0.001
    4      12   COMBIN14      0.010    0.001
    5      11   COMBIN14      0.000    0.000
    6       3   COMBIN14      0.010    0.003
    7       3   COMBIN14      0.000    0.000
    8       3   COMBIN14      0.011    0.004
   30      31   MASS21        0.010    0.000
   71      12   BEAM4         0.010    0.001
   72       5   MASS21        0.011    0.002


*** ANSYS BINARY FILE STATISTICS
 BUFFER SIZE USED=  4096
      33.078 MB WRITTEN ON RESULTS FILE: pb2tfx.rst

ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2tfx.db
 FOR POSSIBLE RESUME FROM THIS POINT
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FINISH SOLUTION PROCESSING


***** ROUTINE COMPLETED *****  CP =     17262.230


1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC      05:46:35  OCT 11, 1995 CP=  17262.260
FOR SUPPORT CALL                    PHONE                    FAX

 Time-history analysis of coupled system (presurizer spray line)

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


        ***** TIME-HISTORY POSTPROCESSOR (POST26) *****

ALL POST26 SPECIFICATIONS ARE RESET TO INITIAL DEFAULTS

MAXIMUM NUMBER OF VARIABLES= 45

VARIABLE  2  IS AT ELEMENT     143  NODE=         1
   ITEM= F    COMP= X      NAME= FX

VARIABLE  3  IS AT ELEMENT     144  NODE=         1
   ITEM= F    COMP= Y      NAME= FY

VARIABLE  4  IS AT ELEMENT     145  NODE=         1
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE  5  IS AT ELEMENT     146  NODE=         1
   ITEM= M    COMP= X      NAME= MX

VARIABLE  6  IS AT ELEMENT     147  NODE=         1
   ITEM= M    COMP= Y      NAME= MY

VARIABLE  7  IS AT ELEMENT     148  NODE=         1
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE  8  IS AT ELEMENT     173  NODE=        87
   ITEM= F    COMP= X      NAME= FX

VARIABLE  9  IS AT ELEMENT     174  NODE=        87
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 10  IS AT ELEMENT     175  NODE=        87
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 11  IS AT ELEMENT     176  NODE=        87
   ITEM= M    COMP= X      NAME= MX

VARIABLE 12  IS AT ELEMENT     177  NODE=        87
   ITEM= M    COMP= Y      NAME= MY

VARIABLE 13  IS AT ELEMENT     178  NODE=        87
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE 14  IS AT ELEMENT     179  NODE=       130
   ITEM= F    COMP= X      NAME= FX

VARIABLE 15  IS AT ELEMENT     180  NODE=       130
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 16  IS AT ELEMENT     181  NODE=       130
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 17  IS AT ELEMENT     182  NODE=       130
   ITEM= M    COMP= X      NAME= MX

VARIABLE 18  IS AT ELEMENT     183  NODE=       130
   ITEM= M    COMP= Y      NAME= MY

VARIABLE 19  IS AT ELEMENT     184  NODE=       130
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE 20  IS AT ELEMENT     149  NODE=         9
   ITEM= F    COMP= X      NAME= FX

VARIABLE 21  IS AT ELEMENT     150  NODE=        10
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 22  IS AT ELEMENT     151  NODE=        15
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 23  IS AT ELEMENT     153  NODE=        23
   ITEM= F    COMP= X      NAME= FX

VARIABLE 24  IS AT ELEMENT     154  NODE=        28
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 25  IS AT ELEMENT     155  NODE=        37
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 26  IS AT ELEMENT     156  NODE=        39
   ITEM= F    COMP= X      NAME= FX

VARIABLE 27  IS AT ELEMENT     157  NODE=        44
   ITEM= F    COMP= Y      NAME= FY
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VARIABLE 28  IS AT ELEMENT      158  NODE=        45
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 29  IS AT ELEMENT      161  NODE=       124
   ITEM= F    COMP= X      NAME= FX

VARIABLE 30  IS AT ELEMENT      162  NODE=       129
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 31  IS AT ELEMENT      163  NODE=        52
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 32  IS AT ELEMENT      164  NODE=        54
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 33  IS AT ELEMENT      165  NODE=        57
   ITEM= F    COMP= X      NAME= FX

VARIABLE 34  IS AT ELEMENT      167  NODE=        73
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 35  IS AT ELEMENT      169  NODE=       131
   ITEM= F    COMP= X      NAME= FX

VARIABLE 36  IS AT ELEMENT      170  NODE=       131
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 37  IS AT ELEMENT      171  NODE=       133
   ITEM= F    COMP= X      NAME= FX

VARIABLE 38  IS AT ELEMENT      172  NODE=       133
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 39  IS AT ELEMENT      152  NODE=        14
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 40  IS AT ELEMENT      159  NODE=        53
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 41  IS AT ELEMENT      168  NODE=        61
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 42  IS AT ELEMENT      166  NODE=        78
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 43  IS AT ELEMENT      160  NODE=        79
   ITEM= F    COMP= Y      NAME= FY

STORAGE COMPLETE FOR     99 DATA POINTS

        SUMMARY OF VARIABLES STORED THIS STEP AND EXTREME VALUES
VARI TYPE     IDENTIFIERS     NAME   MINIMUM     AT TIME     MAXIMUM     AT TIME

  2 ESOL   143 F     X      FX       -0.4260E-01  14.18      0.4569E-01  14.04
  3 ESOL   144 F     Y      FY       -0.1121E-01  14.80      0.8714E-02  14.44
  4 ESOL   145 F     Z      FZ       -0.2608E-01  14.78      0.2522E-01  14.42
  5 ESOL   146 M     X      MX       -0.3859E-01  14.80      0.3567E-01  14.44
  6 ESOL   147 M     Y      MY       -0.9862E-01  14.42      0.1211      14.30
  7 ESOL   148 M     Z      MZ       -0.9609E-01  14.04      0.5901E-01  14.18
  8 ESOL   173 F     X      FX       -0.9577E-02  15.08      0.1092E-01  15.30
  9 ESOL   174 F     Y      FY       -0.5578E-02  14.84      0.5567E-02  15.28
 10 ESOL   175 F     Z      FZ       -0.2392E-02  14.66      0.2805E-02  14.96
 11 ESOL   176 M     X      MX       -0.1698E-01  15.28      0.2002E-01  14.84
 12 ESOL   177 M     Y      MY       -0.1434E-01  15.08      0.1480E-01  14.96
 13 ESOL   178 M     Z      MZ       -0.7907E-02  15.36      0.7044E-02  14.76
 14 ESOL   179 F     X      FX       -0.5702E-02  15.08      0.6091E-02  14.96
 15 ESOL   180 F     Y      FY       -0.4903E-02  14.20      0.2838E-02  14.66
 16 ESOL   181 F     Z      FZ       -0.1894E-02  15.16      0.3162E-02  14.20
 17 ESOL   182 M     X      MX       -0.1868E-02  15.16      0.3124E-02  14.20
 18 ESOL   183 M     Y      MY       -0.1387E-02  14.74      0.1450E-02  15.36
 19 ESOL   184 M     Z      MZ       -0.8478E-02  14.96      0.7876E-02  15.08
 20 ESOL   149 F     X      FX       -0.1245      14.04      0.1222      14.18
 21 ESOL   150 F     Z      FZ       -0.6359E-01  15.12      0.5896E-01  14.82
 22 ESOL   151 F     Y      FY       -0.7794E-01  15.12      0.6250E-01  14.18
 23 ESOL   153 F     X      FX       -0.6485E-01  14.82      0.7509E-01  15.26
 24 ESOL   154 F     Z      FZ       -0.3921E-01  15.14      0.4030E-01  14.82
 25 ESOL   155 F     Y      FY       -0.5296E-01  14.16      0.6682E-01  15.14
 26 ESOL   156 F     X      FX       -0.1305      15.90      0.9958E-01  14.56
 27 ESOL   157 F     Y      FY       -0.1218E-01  15.58      0.1093E-01  15.76
 28 ESOL   158 F     Z      FZ       -0.2916E-01  14.80      0.3079E-01  14.56
 29 ESOL   161 F     X      FX       -0.9911E-02  15.08      0.1043E-01  14.96
 30 ESOL   162 F     Z      FZ       -0.4597E-02  14.20      0.3204E-02  14.92
 31 ESOL   163 F     Y      FY       -0.1349E-01  14.22      0.1085E-01  15.16
 32 ESOL   164 F     Z      FZ       -0.4635E-02  14.20      0.7290E-03  15.88
 33 ESOL   165 F     X      FX       -0.8886E-01  15.08      0.1043      14.96
 34 ESOL   167 F     Z      FZ       -0.1782E-01  14.56      0.2245E-01  15.90
 35 ESOL   169 F     X      FX       -0.5448E-01  15.08      0.5887E-01  15.30
 36 ESOL   170 F     Z      FZ       -0.7730E-02  15.16      0.8757E-02  14.96
 37 ESOL   171 F     X      FX       -0.6383E-01  15.08      0.6660E-01  14.96
 38 ESOL   172 F     Z      FZ       -0.2980E-02  14.26      0.3195E-02  14.60
 39 ESOL   152 F     Y      FY       -0.8585E-03  14.04      0.6190E-03  14.18
 40 ESOL   159 F     Y      FY       -0.4396E-03  15.56      0.4522E-03  14.88
 41 ESOL   168 F     Y      FY       -0.2566E-02  15.26      0.2714E-02  14.88
 42 ESOL   166 F     Y      FY       -0.9793E-03  14.20      0.6329E-03  14.40
 43 ESOL   160 F     Y      FY       -0.2099E-03  14.84      0.1815E-03  15.52

        POST26 SUMMARY OF VARIABLE EXTREME VALUES
VARI TYPE     IDENTIFIERS     NAME     MINIMUM     AT TIME     MAXIMUM     AT TIME

  2 ESOL   143 F     X      FX       -0.4260E-01  14.18      0.4569E-01  14.04
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  3 ESOL   144 F     Y      FY       -0.1121E-01  14.80      0.8714E-02  14.44
  4 ESOL   145 F     Z      FZ       -0.2608E-01  14.78      0.2522E-01  14.42
  5 ESOL   146 M     X      MX       -0.3859E-01  14.80      0.3567E-01  14.44
  6 ESOL   147 M     Y      MY       -0.9862E-01  14.42      0.1211      14.30
  7 ESOL   148 M     Z      MZ       -0.9609E-01  14.04      0.5901E-01  14.18
  8 ESOL   173 F     X      FX       -0.9577E-02  15.08      0.1092E-01  15.30
  9 ESOL   174 F     Y      FY       -0.5578E-02  14.84      0.5567E-02  15.28
 10 ESOL   175 F     Z      FZ       -0.2392E-02  14.66      0.2805E-02  14.96
 11 ESOL   176 M     X      MX       -0.1698E-01  15.28      0.2002E-01  14.84
 12 ESOL   177 M     Y      MY       -0.1434E-01  15.08      0.1480E-01  14.96
 13 ESOL   178 M     Z      MZ       -0.7907E-02  15.36      0.7044E-02  14.76
 14 ESOL   179 F     X      FX       -0.5702E-02  15.08      0.6091E-02  14.96
 15 ESOL   180 F     Y      FY       -0.4903E-02  14.20      0.2838E-02  14.66
 16 ESOL   181 F     Z      FZ       -0.1894E-02  15.16      0.3162E-02  14.20
 17 ESOL   182 M     X      MX       -0.1868E-02  15.16      0.3124E-02  14.20
 18 ESOL   183 M     Y      MY       -0.1387E-02  14.74      0.1450E-02  15.36
 19 ESOL   184 M     Z      MZ       -0.8478E-02  14.96      0.7876E-02  15.08
 20 ESOL   149 F     X      FX       -0.1245      14.04      0.1222      14.18
 21 ESOL   150 F     Z      FZ       -0.6359E-01  15.12      0.5896E-01  14.82
 22 ESOL   151 F     Y      FY       -0.7794E-01  15.12      0.6250E-01  14.18
 23 ESOL   153 F     X      FX       -0.6485E-01  14.82      0.7509E-01  15.26
 24 ESOL   154 F     Z      FZ       -0.3931E-01  15.14      0.4030E-01  14.82
 25 ESOL   155 F     Y      FY       -0.5296E-01  14.16      0.6682E-01  15.14
 26 ESOL   156 F     X      FX       -0.1305      15.90      0.9958E-01  14.56
 27 ESOL   157 F     Y      FY       -0.1218E-01  15.58      0.1093E-01  15.76
 28 ESOL   158 F     Z      FZ       -0.2916E-01  14.80      0.3079E-01  14.56
 29 ESOL   161 F     X      FX       -0.9911E-02  15.08      0.1043E-01  14.96
 30 ESOL   162 F     Z      FZ       -0.4597E-02  14.20      0.3204E-02  14.92
 31 ESOL   163 F     Y      FY       -0.1349E-01  14.22      0.1085E-01  15.16
 32 ESOL   164 F     Z      FZ       -0.4635E-02  14.20      0.7290E-03  15.88
 33 ESOL   165 F     X      FX       -0.8886E-01  15.08      0.1043      14.96
 34 ESOL   167 F     Z      FZ       -0.1782E-01  14.56      0.2245E-01  15.90
 35 ESOL   169 F     X      FX       -0.5448E-01  15.08      0.5887E-01  15.30
 36 ESOL   170 F     Z      FZ       -0.7730E-02  15.16      0.8757E-02  14.96
 37 ESOL   171 F     X      FX       -0.6383E-01  15.08      0.6660E-01  14.96
 38 ESOL   172 F     Z      FZ       -0.2980E-02  14.26      0.3195E-02  14.60
 39 ESOL   152 F     Y      FY       -0.8585E-03  14.04      0.6190E-03  14.18
 40 ESOL   159 F     Y      FY       -0.4396E-03  15.56      0.4522E-03  14.88
 41 ESOL   168 F     Y      FY       -0.2566E-02  15.26      0.2714E-02  14.88
 42 ESOL   166 F     Y      FY       -0.9793E-03  14.20      0.6329E-03  14.40
 43 ESOL   160 F     Y      FY       -0.2099E-03  14.84      0.1815E-03  15.52

ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2tfx.db
 FOR POSSIBLE RESUME FROM THIS POINT

***** ROUTINE COMPLETED *****  CP =      17272.551


*****  ANSYS SOLUTION ROUTINE  *****

PERFORM AN EXPANSION PASS


EXPAND   100 SOLUTIONS
 IN THE RANGE FROM  0.80000      TO  0.90000
 CALCULATE ELEMENT RESULTS AS WELL AS THE NODAL DOF SOLUTION

PRINT BASI ITEMS WITH A FREQUENCY OF NONE
  FOR ALL APPLICABLE ENTITIES

*****  ANSYS SOLVE    COMMAND  *****
1

*****  ANSYS  -  ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2           VERSION=SUN4SPARC      05:48:56  OCT 11, 1995 CP=  17272.580
FOR SUPPORT CALL                    PHONE                    FAX

 Time-history analysis of coupled system (pressurizer spray line)

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**

                    S O L U T I O N   O P T I O N S

  PROBLEM DIMENSIONALITY. . . . . .3-D
  DEGREES OF FREEDOM. . . . . UX   UY   UZ   ROTX ROTY ROTZ
  ANALYSIS TYPE . . . . . .TRANSIENT
     SOLUTION METHOD. . . . . .REDUCED
     EXPANSION PASS . . . . . .ON

                  L O A D   S T E P   O P T I O N S

  LOAD STEP NUMBER. . . . . 1
  NUMBER OF SOLUTIONS TO BE EXPANDED. . . . . 100
     RANGE. . . . . 0.80000     TO  0.90000
  ELEMENT RESULTS CALCULATION . . . . . ON
  PRINT OUTPUT CONTROLS
     ITEM      FREQUENCY   COMPONENT
     BASI       NONE
  DATABASE OUTPUT CONTROLS
     ITEM      FREQUENCY   COMPONENT
     NSOL       LAST


  *** ELEMENT RESULT CALCULATION TIMES
TYPE  NUMBER   ENAME      TOTAL CP  AVE CP

   1      120  PIPE16        0.519   0.004
   2       22  PIPE16        0.190   0.009
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     3      10  COMBIN14        0.030     0.003
     4      12  COMBIN14        0.031     0.003
     5      11  COMBIN14        0.000     0.000
     6       3  COMBIN14        0.000     0.000
     7       3  COMBIN14        0.000     0.000
     8       3  COMBIN14        0.000     0.000
    30      31  MASS21          0.039     0.001
    71      12  BEAM4           0.049     0.004
    72       5  MASS21          0.000     0.000

  *** NODAL LOAD CALCULATION TIMES
 TYPE  NUMBER    ENAME       TOTAL CP  AVE CP

     1     120  PIPE16          0.100     0.001
     2      22  PIPE18          0.020     0.001
     3      10  COMBIN14        0.020     0.002
     4      12  COMBIN14        0.000     0.000
     5      11  COMBIN14        0.021     0.002
     6       3  COMBIN14        0.000     0.000
     7       3  COMBIN14        0.000     0.000
     8       3  COMBIN14        0.000     0.000
    30      31  MASS21          0.012     0.000
    71      12  BEAM4           0.010     0.001
    72       5  MASS21          0.000     0.000


*** ANSYS BINARY FILE STATISTICS
 BUFFER SIZE USED=  4096
       33.078 MB WRITTEN ON RESULTS FILE: pb2tfx.rst

ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2tfx.db
 FOR POSSIBLE RESUME FROM THIS POINT

FINISH SOLUTION PROCESSING


***** ROUTINE COMPLETED *****  CP =     17485.999


1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC     05:56:34  OCT 11, 1995 CP=  17486.031
FOR SUPPORT CALL                  PHONE                      FAX

 Time-history analysis of coupled system (pressurizer spray line)

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


         ***** TIME-HISTORY POSTPROCESSOR (POST26) *****

ALL POST26 SPECIFICATIONS ARE RESET TO INITIAL DEFAULTS

MAXIMUM NUMBER OF VARIABLES= 43

VARIABLE  2  IS AT ELEMENT      143  NODE=         1
   ITEM= F    COMP= X      NAME= FX

VARIABLE  3  IS AT ELEMENT      144  NODE=         1
   ITEM= F    COMP= Y      NAME= FY

VARIABLE  4  IS AT ELEMENT      145  NODE=         1
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE  5  IS AT ELEMENT      146  NODE=         1
   ITEM= M    COMP= X      NAME= MX

VARIABLE  6  IS AT ELEMENT      147  NODE=         1
   ITEM= M    COMP= Y      NAME= MY

VARIABLE  7  IS AT ELEMENT      148  NODE=         1
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE  8  IS AT ELEMENT      173  NODE=        87
   ITEM= F    COMP= X      NAME= FX

VARIABLE  9  IS AT ELEMENT      174  NODE=        87
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 10  IS AT ELEMENT      175  NODE=        87
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 11  IS AT ELEMENT      176  NODE=        87
   ITEM= M    COMP= X      NAME= MX

VARIABLE 12  IS AT ELEMENT      177  NODE=        87
   ITEM= M    COMP= Y      NAME= MY

VARIABLE 13  IS AT ELEMENT      178  NODE=        87
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE 14  IS AT ELEMENT      179  NODE=       130
   ITEM= F    COMP= X      NAME= FX

VARIABLE 15  IS AT ELEMENT      180  NODE=       130
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 16  IS AT ELEMENT      181  NODE=       130
   ITEM= F    COMP= Z      NAME= FZ
```



```
VARIABLE 17  IS AT ELEMENT      182  NODE=       130
   ITEM= M    COMP= X      NAME= MX

VARIABLE 18  IS AT ELEMENT      183  NODE=       130
   ITEM= M    COMP= Y      NAME= MY

VARIABLE 19  IS AT ELEMENT      184  NODE=       130
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE 20  IS AT ELEMENT      149  NODE=         9
   ITEM= F    COMP= X      NAME= FX

VARIABLE 21  IS AT ELEMENT      150  NODE=        10
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 22  IS AT ELEMENT      151  NODE=        15
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 23  IS AT ELEMENT      153  NODE=        23
   ITEM= F    COMP= X      NAME= FX

VARIABLE 24  IS AT ELEMENT      154  NODE=        28
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 25  IS AT ELEMENT      155  NODE=        37
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 26  IS AT ELEMENT      156  NODE=        39
   ITEM= F    COMP= X      NAME= FX

VARIABLE 27  IS AT ELEMENT      157  NODE=        44
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 28  IS AT ELEMENT      158  NODE=        45
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 29  IS AT ELEMENT      161  NODE=       124
   ITEM= F    COMP= X      NAME= FX

VARIABLE 30  IS AT ELEMENT      162  NODE=       129
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 31  IS AT ELEMENT      163  NODE=        52
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 32  IS AT ELEMENT      164  NODE=        54
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 33  IS AT ELEMENT      165  NODE=        57
   ITEM= F    COMP= X      NAME= FX

VARIABLE 34  IS AT ELEMENT      167  NODE=        73
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 35  IS AT ELEMENT      169  NODE=       131
   ITEM= F    COMP= X      NAME= FX

VARIABLE 36  IS AT ELEMENT      170  NODE=       131
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 37  IS AT ELEMENT      171  NODE=       133
   ITEM= F    COMP= X      NAME= FX

VARIABLE 38  IS AT ELEMENT      172  NODE=       133
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 39  IS AT ELEMENT      152  NODE=        14
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 40  IS AT ELEMENT      159  NODE=        53
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 41  IS AT ELEMENT      168  NODE=        61
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 42  IS AT ELEMENT      166  NODE=        78
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 43  IS AT ELEMENT      160  NODE=        79
   ITEM= F    COMP= Y      NAME= FY

STORAGE COMPLETE FOR     99 DATA POINTS

        SUMMARY OF VARIABLES STORED THIS STEP AND EXTREME VALUES
VARI TYPE     IDENTIFIERS     NAME   MINIMUM     AT TIME     MAXIMUM     AT TIME

  2 ESOL   143 F    X      FX       -0.3286E-01  16.10      0.2420E-01  17.22
  3 ESOL   144 F    Y      FY       -0.8504E-02  17.96      0.4069E-02  16.40
  4 ESOL   145 F    Z      FZ       -0.1659E-01  17.54      0.1253E-01  17.60
  5 ESOL   146 M    X      MX       -0.2032E-01  17.94      0.1592E-01  17.60
  6 ESOL   147 M    Y      MY       -0.7177E-01  16.38      0.9043E-01  17.96
  7 ESOL   148 M    Z      MZ       -0.4947E-01  17.22      0.3732E-01  17.40
  8 ESOL   173 F    X      FX       -0.9210E-02  17.80      0.1151E-01  16.96
  9 ESOL   174 F    Y      FY       -0.4288E-02  17.10      0.3440E-02  17.28
 10 ESOL   175 F    Z      FZ       -0.3010E-02  17.10      0.2595E-02  16.96
 11 ESOL   176 M    X      MX       -0.1122E-01  16.28      0.1187E-01  17.10
 12 ESOL   177 M    Y      MY       -0.1248E-01  17.60      0.1691E-01  16.96
 13 ESOL   178 M    Z      MZ       -0.6684E-02  16.96      0.5013E-02  16.84
 14 ESOL   179 F    X      FX       -0.4618E-02  16.84      0.6373E-02  16.96
 15 ESOL   180 F    Y      FY       -0.1760E-02  16.62      0.2199E-02  16.42
 16 ESOL   181 F    Z      FZ       -0.1265E-02  16.42      0.1087E-02  17.36
```

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 17 ESOL   182 M    X     MX        -0.1257E-02  16.42      0.1072E-02  17.36
 18 ESOL   183 M    Y     MY        -0.1111E-02  16.84      0.1470E-02  16.96
 19 ESOL   184 M    Z     MZ        -0.8701E-02  16.96      0.6354E-02  16.84
 20 ESOL   *44 F    X     FX        -0.7050E-01  17.20      0.7156E-01  17.38
 21 ESOL   150 F    Z     FZ        -0.3275E-01  17.60      0.3624E-01  17.94
 22 ESOL   151 F    Y     FY        -0.4276E-01  17.62      0.3403E-01  16.10
 23 ESOL   153 F    X     FX        -0.5308E-01  17.82      0.4313E-01  16.22
 24 ESOL   154 F    Z     FZ        -0.1927E-01  17.60      0.2227E-01  17.94
 25 ESOL   155 F    Y     FY        -0.2701E-01  16.12      0.3657E-01  17.62
 26 ESOL   156 F    X     FX        -0.1112      17.96      0.1041      16.36
 27 ESOL   157 F    Y     FY        -0.1190E-01  16.28      0.1152E-01  17.44
 28 ESOL   158 F    Z     FZ        -0.3452E-01  17.94      0.2452E-01  16.42
 29 ESOL   161 F    X     FX        -0.8305E-02  17.80      0.1115E-01  16.96
 30 ESOL   162 F    Z     FZ        -0.1731E-02  16.06      0.1902E-02  17.96
 31 ESOL   163 F    Y     FY        -0.8233E-02  16.06      0.6961E-02  16.26
 32 ESOL   164 F    Z     FZ        -0.6381E-02  16.36      0.6659E-02  17.98
 33 ESOL   165 F    X     FX        -0.1043      17.10      0.9829E-01  16.96
 34 ESOL   167 F    Z     FZ        -0.1926E-01  16.38      0.2083E-01  17.98
 35 ESOL   169 F    X     FX        -0.5450E-01  17.80      0.6520E-01  16.96
 36 ESOL   170 F    Z     FZ        -0.4163E-02  16.68      0.3956E-02  16.96
 37 ESOL   171 F    X     FX        -0.5775E-01  17.80      0.7164E-01  16.96
 38 ESOL   172 F    Z     FZ        -0.3008E-02  17.94      0.3077E-02  17.10
 39 ESOL   152 F    Y     FY        -0.4449E-03  17.22      0.3949E-03  16.10
 40 ESOL   159 F    Y     FY        -0.3143E-03  16.30      0.2933E-03  17.46
 41 ESOL   168 F    Y     FY        -0.1574E-02  16.32      0.1578E-02  17.46
 42 ESOL   166 F    Y     FY        -0.5783E-03  16.08      0.5771E-03  17.96
 43 ESOL   160 F    Y     FY        -0.1354E-03  17.10      0.1304E-03  16.28

          POST26 SUMMARY OF VARIABLE EXTREME VALUES
VARI TYPE     IDENTIFIERS    NAME      MINIMUM     AT TIME    MAXIMUM     AT TIME

  2 ESOL   143 F    X     FX        -0.3286E-01  16.10      0.2420E-01  17.22
  3 ESOL   144 F    Y     FY        -0.8504E-02  17.96      0.4069E-02  16.40
  4 ESOL   145 F    Z     FZ        -0.1659E-01  17.94      0.1253E-01  17.60
  5 ESOL   146 M    X     MX        -0.2032E-01  17.94      0.1592E-01  17.60
  6 ESOL   147 M    Y     MY        -0.7177E-01  16.38      0.9049E-01  17.56
  7 ESOL   148 M    Z     MZ        -0.4947E-01  17.22      0.3732E-01  17.40
  8 ESOL   173 F    X     FX        -0.9210E-02  17.80      0.1151E-01  16.96
  9 ESOL   174 F    Y     FY        -0.4288E-02  17.10      0.3440E-02  17.28
 10 ESOL   175 F    Z     FZ        -0.3010E-02  17.10      0.2595E-02  16.96
 11 ESOL   176 M    X     MX        -0.1122E-01  16.28      0.1167E-01  17.10
 12 ESOL   177 M    Y     MY        -0.1248E-01  17.80      0.1691E-01  16.96
 13 ESOL   178 M    Z     MZ        -0.6684E-02  16.96      0.5013E-02  16.84
 14 ESOL   179 F    X     FX        -0.4618E-02  16.84      0.6373E-02  16.96
 15 ESOL   180 F    Y     FY        -0.1760E-02  16.62      0.2199E-02  16.42
 16 ESOL   181 F    Z     FZ        -0.1265E-02  16.42      0.1087E-02  17.36
 17 ESOL   182 M    X     MX        -0.1257E-02  16.42      0.1072E-02  17.36
 18 ESOL   183 M    Y     MY        -0.1111E-02  16.84      0.1470E-02  16.96
 19 ESOL   184 M    Z     MZ        -0.8701E-02  16.96      0.6354E-02  16.84
 20 ESOL   149 F    X     FX        -0.7050E-01  17.20      0.7156E-01  17.38
 21 ESOL   150 F    Z     FZ        -0.3275E-01  17.60      0.3624E-01  17.94
 22 ESOL   151 F    Y     FY        -0.4276E-01  17.62      0.3403E-01  16.10
 23 ESOL   153 F    X     FX        -0.5308E-01  17.82      0.4313E-01  16.22
 24 ESOL   154 F    Z     FZ        -0.1927E-01  17.60      0.2227E-01  17.94
 25 ESOL   155 F    Y     FY        -0.2701E-01  16.12      0.3657E-01  17.62
 26 ESOL   156 F    X     FX        -0.1112      17.96      0.1041      16.36
 27 ESOL   157 F    Y     FY        -0.1190E-01  16.28      0.1152E-01  17.44
 28 ESOL   158 F    Z     FZ        -0.3452E-01  17.94      0.2452E-01  16.42
 29 ESOL   161 F    X     FX        -0.8305E-02  17.80      0.1115E-01  16.96
 30 ESOL   162 F    Z     FZ        -0.1731E-02  16.06      0.1902E-02  17.96
 31 ESOL   163 F    Y     FY        -0.8233E-02  16.06      0.6961E-02  16.26
 32 ESOL   164 F    Z     FZ        -0.6381E-02  16.36      0.6659E-02  17.98
 33 ESOL   165 F    X     FX        -0.1043      17.10      0.9829E-01  16.96
 34 ESOL   167 F    Z     FZ        -0.1926E-01  16.38      0.2083E-01  17.98
 35 ESOL   169 F    X     FX        -0.5450E-01  17.80      0.6520E-01  16.96
 36 ESOL   170 F    Z     FZ        -0.4163E-02  16.68      0.3956E-02  16.96
 37 ESOL   171 F    X     FX        -0.5775E-01  17.80      0.7164E-01  16.96
 38 ESOL   172 F    Z     FZ        -0.3008E-02  17.94      0.3077E-02  17.10
 39 ESOL   152 F    Y     FY        -0.4449E-03  17.22      0.3949E-03  16.10
 40 ESOL   159 F    Y     FY        -0.3143E-03  16.30      0.2933E-03  17.46
 41 ESOL   168 F    Y     FY        -0.1574E-02  16.32      0.1578E-02  17.46
 42 ESOL   166 F    Y     FY        -0.5783E-03  16.08      0.5771E-03  17.96
 43 ESOL   160 F    Y     FY        -0.1354E-03  17.10      0.1304E-03  16.28

ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2tfx.db
 FOR POSSIBLE RESUME FROM THIS POINT


***** ROUTINE COMPLETED *****  CP =      17497.530



*****  ANSYS SOLUTION ROUTINE  *****

PERFORM AN EXPANSION PASS


EXPAND   100 SOLUTIONS
 IN THE RANGE FROM  0.90000      TO   1.0000
 CALCULATE ELEMENT RESULTS AS WELL AS THE NODAL DOF SOLUTION

PRINT BASI ITEMS WITH A FREQUENCY OF NONE
  FOR ALL APPLICABLE ENTITIES

*****  ANSYS SOLVE    COMMAND  *****
1

*****  ANSYS  -  ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC      05:56:59  OCT 11, 1995 CP=  17497.560
FOR SUPPORT CALL                  PHONE                        FAX
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 Time-history analysis of coupled system (presurizer spray line)

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**

                    S O L U T I O N   O P T I O N S

 PROBLEM DIMENSIONALITY. . . . . . . . . . . . . .3-D
 DEGREES OF FREEDOM. . . . . . UX   UY   UZ   ROTX ROTY ROTZ
 ANALYSIS TYPE . . . . . . . . . . . . . . . . . .TRANSIENT
    SOLUTION METHOD. . . . . . . . . . . . . . . .REDUCED
    EXPANSION PASS . . . . . . . . . . . . . . . .ON

                    L O A D   S T E P   O P T I O N S

 LOAD STEP NUMBER. . . . . . . . . . . . . . . .   1
 NUMBER OF SOLUTIONS TO BE EXPANDED. . . . . . .   100
    RANGE. . . . . . . . . . . . . . . . . . . . 0.90000     TO   1.0000
 ELEMENT RESULTS CALCULATION . . . . . . . . . .   ON
 PRINT OUTPUT CONTROLS
    ITEM       FREQUENCY    COMPONENT
    BASI       NONE
 DATABASE OUTPUT CONTROLS
    ITEM       FREQUENCY    COMPONENT
    NSOL       LAST


  *** ELEMENT RESULT CALCULATION TIMES
TYPE  NUMBER    ENAME       TOTAL CP  AVE CP

   1      120  PIPE16         0.479    0.004
   2       22  PIPE18         0.149    0.007
   3       10  COMBIN14       0.000    0.000
   4       12  COMBIN14       0.020    0.002
   5       11  COMBIN14       0.030    0.003
   6        3  COMBIN14       0.010    0.003
   7        3  COMBIN14       0.000    0.000
   8        3  COMBIN14       0.000    0.000
  30       31  MASS21         0.059    0.002
  71       12  BEAM4          0.049    0.004
  72        5  MASS21         0.000    0.000

  *** NODAL LOAD CALCULATION TIMES
TYPE  NUMBER    ENAME       TOTAL CP  AVE CP

   1      120  PIPE16         0.112    0.001
   2       22  PIPE18         0.031    0.001
   3       10  COMBIN14       0.000    0.000
   4       12  COMBIN14       0.020    0.002
   5       11  COMBIN14       0.010    0.001
   6        3  COMBIN14       0.000    0.000
   7        3  COMBIN14       0.000    0.000
   8        3  COMBIN14       0.000    0.000
  30       31  MASS21         0.010    0.000
  71       12  BEAM4          0.021    0.002
  72        5  MASS21         0.000    0.000


*** ANSYS BINARY FILE STATISTICS
 BUFFER SIZE USED=  4096
      33.406 MB WRITTEN ON RESULTS FILE: pb2tfx.rst

ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2tfx.db
 FOR POSSIBLE RESUME FROM THIS POINT

FINISH SOLUTION PROCESSING


***** ROUTINE COMPLETED *****  CP =      17713.620


1

*****  ANSYS  -  ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC      06:04:38  OCT 11, 1995 CP=  17713.640
FOR SUPPORT CALL                  PHONE                        FAX

 Time-history analysis of coupled system (presurizer spray line)

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


        ***** TIME-HISTORY POSTPROCESSOR (POST26) *****

ALL POST26 SPECIFICATIONS ARE RESET TO INITIAL DEFAULTS

MAXIMUM NUMBER OF VARIABLES= 43

VARIABLE  2  IS AT ELEMENT      143  NODE=         1
   ITEM= F    COMP= X      NAME= FX

VARIABLE  3  IS AT ELEMENT      144  NODE=         1
   ITEM= F    COMP= Y      NAME= FY

VARIABLE  4  IS AT ELEMENT      145  NODE=         1
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE  5  IS AT ELEMENT      146  NODE=         1
   ITEM= M    COMP= X      NAME= MX

VARIABLE  6  IS AT ELEMENT      147  NODE=         1
```

```
   ITEM= M    COMP= Y      NAME= MY

VARIABLE  7  IS AT ELEMENT      148  NODE=        1
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE  8  IS AT ELEMENT      173  NODE=       87
   ITEM= F    COMP= X      NAME= FX

VARIABLE  9  IS AT ELEMENT      174  NODE=       87
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 10  IS AT ELEMENT      175  NODE=       87
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 11  IS AT ELEMENT      176  NODE=       87
   ITEM= M    COMP= X      NAME= MX

VARIABLE 12  IS AT ELEMENT      177  NODE=       87
   ITEM= M    COMP= Y      NAME= MY

VARIABLE 13  IS AT ELEMENT      178  NODE=       87
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE 14  IS AT ELEMENT      179  NODE=      130
   ITEM= F    COMP= X      NAME= FX

VARIABLE 15  IS AT ELEMENT      180  NODE=      130
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 16  IS AT ELEMENT      181  NODE=      130
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 17  IS AT ELEMENT      182  NODE=      130
   ITEM= M    COMP= X      NAME= MX

VARIABLE 18  IS AT ELEMENT      183  NODE=      130
   ITEM= M    COMP= Y      NAME= MY

VARIABLE 19  IS AT ELEMENT      184  NODE=      130
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE 20  IS AT ELEMENT      149  NODE=        9
   ITEM= F    COMP= X      NAME= FX

VARIABLE 21  IS AT ELEMENT      150  NODE=       10
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 22  IS AT ELEMENT      151  NODE=       15
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 23  IS AT ELEMENT      153  NODE=       23
   ITEM= F    COMP= X      NAME= FX

VARIABLE 24  IS AT ELEMENT      154  NODE=       28
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 25  IS AT ELEMENT      155  NODE=       37
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 26  IS AT ELEMENT      156  NODE=       39
   ITEM= F    COMP= X      NAME= FX

VARIABLE 27  IS AT ELEMENT      157  NODE=       44
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 28  IS AT ELEMENT      158  NODE=       45
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 29  IS AT ELEMENT      161  NODE=      124
   ITEM= F    COMP= X      NAME= FX

VARIABLE 30  IS AT ELEMENT      162  NODE=      129
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 31  IS AT ELEMENT      163  NODE=       52
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 32  IS AT ELEMENT      164  NODE=       54
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 33  IS AT ELEMENT      165  NODE=       57
   ITEM= F    COMP= X      NAME= FX

VARIABLE 34  IS AT ELEMENT      167  NODE=       73
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 35  IS AT ELEMENT      169  NODE=      131
   ITEM= F    COMP= X      NAME= FX

VARIABLE 36  IS AT ELEMENT      170  NODE=      131
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 37  IS AT ELEMENT      171  NODE=      133
   ITEM= F    COMP= X      NAME= FX

VARIABLE 38  IS AT ELEMENT      172  NODE=      133
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 39  IS AT ELEMENT      152  NODE=       14
   ITEM= F    COMP= Y      NAME= FY
```



```
VARIABLE 40  IS AT ELEMENT      159  NODE=       53
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 41  IS AT ELEMENT      168  NODE=       61
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 42  IS AT ELEMENT      166  NODE=       78
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 43  IS AT ELEMENT      160  NODE=       79
   ITEM= F    COMP= Y      NAME= FY

STORAGE COMPLETE FOR    100 DATA POINTS

        SUMMARY OF VARIABLES STORED THIS STEP AND EXTREME VALUES
VARI TYPE    IDENTIFIERS     NAME    MINIMUM     AT TIME     MAXIMUM    AT TIME

  2 ESOL  143 F   X    FX      -0.2420E-01  18.52     0.2664E-01  18.34
  3 ESOL  144 F   Y    FY      -0.7009E-02  19.16     0.6822E-02  18.80
  4 ESOL  145 F   Z    FZ      -0.1965E-01  19.14     0.1945E-01  18.28
  5 ESOL  146 M   X    MX      -0.3054E-01  19.86     0.2942E-01  19.52
  6 ESOL  147 M   Y    MY      -0.1186      18.30     0.9323E-01  18.64
  7 ESOL  148 M   Z    MZ      -0.3877E-01  19.82     0.3323E-01  19.62
  8 ESOL  173 F   X    FX      -0.7586E-02  19.76     0.6754E-02  18.12
  9 ESOL  174 F   Y    FY      -0.4027E-02  20.02     0.3033E-02  19.90
 10 ESOL  175 F   Z    FZ      -0.2260E-02  19.76     0.1923E-02  18.60
 11 ESOL  176 M   X    MX      -0.1013E-01  19.90     0.1332E-01  20.02
 12 ESOL  177 M   Y    MY      -0.1077E-01  19.76     0.9759E-02  18.12
 13 ESOL  178 M   Z    MZ      -0.5901E-02  18.12     0.4566E-02  19.76
 14 ESOL  179 F   X    FX      -0.4135E-02  19.76     0.3519E-02  18.12
 15 ESOL  180 F   Y    FY      -0.1603E-02  19.36     0.1927E-02  19.80
 16 ESOL  181 F   Z    FZ      -0.1301E-02  19.78     0.9235E-03  19.60
 17 ESOL  182 M   X    MX      -0.1282E-02  19.78     0.9109E-03  19.60
 18 ESOL  183 M   Y    MY      -0.8948E-03  19.76     0.9401E-03  18.12
 19 ESOL  184 M   Z    MZ      -0.4834E-02  18.12     0.5643E-02  19.76
 20 ESOL  149 F   X    FX      -0.8066E-01  18.36     0.7164E-01  18.54
 21 ESOL  150 F   Z    FZ      -0.4807E-01  18.28     0.4347E-01  19.18
 22 ESOL  151 F   Y    FY      -0.4764E-01  18.30     0.5393E-01  18.54
 23 ESOL  153 F   X    FX      -0.3916E-01  19.22     0.5365E-01  18.26
 24 ESOL  154 F   Z    FZ      -0.2950E-01  19.54     0.3137E-01  19.18
 25 ESOL  155 F   Y    FY      -0.4693E-01  18.54     0.4442E-01  18.28
 26 ESOL  156 F   X    FX      -0.5846E-01  19.38     0.6066E-01  18.96
 27 ESOL  157 F   Y    FY      -0.8390E-02  18.26     0.1077E-01  18.10
 28 ESOL  158 F   Z    FZ      -0.2583E-01  18.60     0.2466E-01  18.92
 29 ESOL  161 F   X    FX      -0.7303E-02  19.76     0.6017E-02  18.12
 30 ESOL  162 F   Z    FZ      -0.1409E-02  19.60     0.2026E-02  19.78
 31 ESOL  163 F   Y    FY      -0.6936E-02  18.12     0.7527E-02  19.78
 32 ESOL  164 F   Z    FZ      -0.3561E-02  19.72     0.2950E-02  18.62
 33 ESOL  165 F   X    FX      -0.8386E-01  19.76     0.5531E-01  18.58
 34 ESOL  167 F   Z    FZ      -0.1157E-01  18.96     0.1097E-01  18.62
 35 ESOL  169 F   X    FX      -0.4390E-01  19.76     0.3294E-01  18.12
 36 ESOL  170 F   Z    FZ      -0.4396E-02  19.78     0.3188E-02  19.64
 37 ESOL  171 F   X    FX      -0.4852E-01  19.76     0.3533E-01  18.12
 38 ESOL  172 F   Z    FZ      -0.2004E-02  19.42     0.2040E-02  19.74
 39 ESOL  152 F   Y    FY      -0.3653E-03  18.36     0.3051E-03  18.52
 40 ESOL  159 F   Y    FY      -0.2172E-03  18.24     0.2176E-03  18.10
 41 ESOL  168 F   Y    FY      -0.1094E-02  18.24     0.1171E-02  18.10
 42 ESOL  166 F   Y    FY      -0.4487E-03  18.14     0.4897E-03  19.80
 43 ESOL  160 F   Y    FY      -0.1422E-03  20.02     0.1066E-03  19.82

        POST26 SUMMARY OF VARIABLE EXTREME VALUES
VARI TYPE    IDENTIFIERS     NAME    MINIMUM     AT TIME     MAXIMUM    AT TIME

  2 ESOL  143 F   X    FX      -0.2420E-01  18.52     0.2664E-01  18.34
  3 ESOL  144 F   Y    FY      -0.7009E-02  19.16     0.6822E-02  18.80
  4 ESOL  145 F   Z    FZ      -0.1965E-01  19.14     0.1945E-01  18.28
  5 ESOL  146 M   X    MX      -0.3054E-01  19.86     0.2942E-01  19.52
  6 ESOL  147 M   Y    MY      -0.1186      18.30     0.9323E-01  18.64
  7 ESOL  148 M   Z    MZ      -0.3877E-01  19.82     0.3323E-01  19.62
  8 ESOL  173 F   X    FX      -0.7586E-02  19.76     0.6754E-02  18.12
  9 ESOL  174 F   Y    FY      -0.4027E-02  20.02     0.3033E-02  19.90
 10 ESOL  175 F   Z    FZ      -0.2260E-02  19.76     0.1923E-02  18.60
 11 ESOL  176 M   X    MX      -0.1013E-01  19.90     0.1332E-01  20.02
 12 ESOL  177 M   Y    MY      -0.1077E-01  19.76     0.9759E-02  18.12
 13 ESOL  178 M   Z    MZ      -0.5901E-02  18.12     0.4566E-02  19.76
 14 ESOL  179 F   X    FX      -0.4135E-02  19.76     0.3519E-02  18.12
 15 ESOL  180 F   Y    FY      -0.1603E-02  19.36     0.1927E-02  19.80
 16 ESOL  181 F   Z    FZ      -0.1301E-02  19.78     0.9235E-03  19.60
 17 ESOL  182 M   X    MX      -0.1282E-02  19.78     0.9109E-03  19.60
 18 ESOL  183 M   Y    MY      -0.8948E-03  19.76     0.9401E-03  18.12
 19 ESOL  184 M   Z    MZ      -0.4834E-02  18.12     0.5643E-02  19.76
 20 ESOL  149 F   X    FX      -0.8066E-01  18.36     0.7164E-01  18.54
 21 ESOL  150 F   Z    FZ      -0.4807E-01  18.28     0.4347E-01  19.18
 22 ESOL  151 F   Y    FY      -0.4764E-01  18.30     0.5393E-01  18.54
 23 ESOL  153 F   X    FX      -0.3916E-01  19.22     0.5365E-01  18.26
 24 ESOL  154 F   Z    FZ      -0.2950E-01  19.54     0.3137E-01  19.18
 25 ESOL  155 F   Y    FY      -0.4693E-01  18.54     0.4442E-01  18.28
 26 ESOL  156 F   X    FX      -0.5846E-01  19.38     0.6066E-01  18.96
 27 ESOL  157 F   Y    FY      -0.8390E-02  18.26     0.1077E-01  18.10
 28 ESOL  158 F   Z    FZ      -0.2583E-01  18.60     0.2466E-01  18.92
 29 ESOL  161 F   X    FX      -0.7303E-02  19.76     0.6017E-02  18.12
 30 ESOL  162 F   Z    FZ      -0.1409E-02  19.60     0.2026E-02  19.78
 31 ESOL  163 F   Y    FY      -0.6936E-02  18.12     0.7527E-02  19.78
 32 ESOL  164 F   Z    FZ      -0.3561E-02  19.72     0.2950E-02  18.62
 33 ESOL  165 F   X    FX      -0.8386E-01  19.76     0.5531E-01  18.58
 34 ESOL  167 F   Z    FZ      -0.1157E-01  18.96     0.1097E-01  18.62
 35 ESOL  169 F   X    FX      -0.4390E-01  19.76     0.3294E-01  18.12
 36 ESOL  170 F   Z    FZ      -0.4396E-02  19.78     0.3188E-02  19.64
 37 ESOL  171 F   X    FX      -0.4852E-01  19.76     0.3533E-01  18.12
 38 ESOL  172 F   Z    FZ      -0.2004E-02  19.42     0.2040E-02  19.74
 39 ESOL  152 F   Y    FY      -0.3653E-03  18.36     0.3051E-03  18.52
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 40 ESOL   159 F    Y    FY        -0.1728E-03  18.24     0.2276E-03  18.10
 41 ESOL   168 F    Y    FY        -0.1094E-02  18.24     0.1171E-02  18.10
 42 ESOL   166 F    Y    FY        -0.4487E-03  18.14     0.4892E-03  19.80
 43 ESOL   160 F    Y    FY        -0.1422E-03  20.02     0.1066E-03  19.82

ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2tfx.db
 FOR POSSIBLE RESUME FROM THIS POINT


***** ROUTINE COMPLETED *****  CP =      17725.581



*****  ANSYS SOLUTION ROUTINE  *****


PERFORM AN EXPANSION PASS


EXPAND   100 SOLUTIONS
 IN THE RANGE FROM       0.       TO  0.10000
 CALCULATE ELEMENT RESULTS AS WELL AS THE NODAL DOF SOLUTION

PRINT BASI ITEMS WITH A FREQUENCY OF NONE
  FOR ALL APPLICABLE ENTITIES

*****  ANSYS SOLVE    COMMAND  *****
1

*****  ANSYS  -  ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2            VERSION=SUN4SPARC      06:05:04  OCT 11, 1995 CP=  17725.600
FOR SUPPORT CALL                    PHONE                      FAX

 Time-history analysis of coupled system (pressurizer spray line)

 **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**

                    S O L U T I O N   O P T I O N S

  PROBLEM DIMENSIONALITY. . . . . .3-D
  DEGREES OF FREEDOM. . . . . UX   UY   UZ   ROTX ROTY ROTZ
  ANALYSIS TYPE . . . . . .TRANSIENT
     SOLUTION METHOD. . . . . .REDUCED
     EXPANSION PASS . . . . . .ON

                  L O A D   S T E P   O P T I O N S

  LOAD STEP NUMBER. . . . . .  1
  NUMBER OF SOLUTIONS TO BE EXPANDED. . . . . .  100
     RANGE. . . . . .  0.      TO  0.10000
  ELEMENT RESULTS CALCULATION . . . . . .  ON
  PRINT OUTPUT CONTROLS
     ITEM      FREQUENCY   COMPONENT
     BASI        NONE
  DATABASE OUTPUT CONTROLS
     ITEM      FREQUENCY   COMPONENT
     NSOL        LAST


   *** ELEMENT RESULT CALCULATION TIMES
 TYPE  NUMBER    ENAME      TOTAL CP  AVE CP

    1     120  PIPE16         0.468    0.004
    2      22  PIPE18         0.201    0.009
    3      10  COMBIN14       0.010    0.001
    4      12  COMBIN14       0.020    0.002
    5      11  COMBIN14       0.010    0.001
    6       3  COMBIN14       0.010    0.003
    7       3  COMBIN14       0.010    0.003
    8       3  COMBIN14       0.000    0.000
   30      31  MASS21         0.088    0.003
   71      12  BEAM4          0.090    0.008
   72       5  MASS21         0.000    0.000

   *** NODAL LOAD CALCULATION TIMES
 TYPE  NUMBER    ENAME      TOTAL CP  AVE CP

    1     120  PIPE16         0.061    0.001
    2      22  PIPE18         0.000    0.000
    3      10  COMBIN14       0.000    0.000
    4      12  COMBIN14       0.000    0.000
    5      11  COMBIN14       0.000    0.000
    6       3  COMBIN14       0.000    0.000
    7       3  COMBIN14       0.000    0.000
    8       3  COMBIN14       0.000    0.000
   30      31  MASS21         0.043    0.001
   71      12  BEAM4          0.000    0.000
   72       5  MASS21         0.000    0.000


*** ANSYS BINARY FILE STATISTICS
 BUFFER SIZE USED=  4096
      33.078 MB WRITTEN ON RESULTS FILE: pb2tfx.rst

ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2tfx.db
 FOR POSSIBLE RESUME FROM THIS POINT

FINISH SOLUTION PROCESSING


***** ROUTINE COMPLETED *****  CP =      17939.809
```



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1

*****  ANSYS  -  ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2            VERSION=SUN4SPARC      06:12:39  OCT 11, 1995 CP=  17939.839
FOR SUPPORT CALL                    PHONE                      FAX

 Time-history analysis of coupled system (pressurizer spray line)

 **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**

        ***** TIME-HISTORY POSTPROCESSOR (POST26) *****

 ALL POST26 SPECIFICATIONS ARE RESET TO INITIAL DEFAULTS

 MAXIMUM NUMBER OF VARIABLES= 30

 VARIABLE  2  IS AT ELEMENT       1  NODE=        1
    ITEM= F    COMP= X      NAME= FX

 VARIABLE  3  IS AT ELEMENT       1  NODE=        1
    ITEM= F    COMP= Y      NAME= FY

 VARIABLE  4  IS AT ELEMENT       1  NODE=        1
    ITEM= M    COMP= X      NAME= MX

 VARIABLE  5  IS AT ELEMENT       1  NODE=        1
    ITEM= M    COMP= Y      NAME= MY

 VARIABLE  6  IS AT ELEMENT       6  NODE=        6
    ITEM= F    COMP= X      NAME= FX

 VARIABLE  7  IS AT ELEMENT       6  NODE=        6
    ITEM= M    COMP= Z      NAME= MZ

 VARIABLE  8  IS AT ELEMENT      12  NODE=       10
    ITEM= F    COMP= X      NAME= FX

 VARIABLE  9  IS AT ELEMENT      12  NODE=       10
    ITEM= F    COMP= Z      NAME= FZ

 VARIABLE 10  IS AT ELEMENT      12  NODE=       10
    ITEM= M    COMP= X      NAME= MX

 VARIABLE 11  IS AT ELEMENT      12  NODE=       10
    ITEM= M    COMP= Z      NAME= MZ

 VARIABLE 12  IS AT ELEMENT      22  NODE=       15
    ITEM= F    COMP= Z      NAME= FZ

 VARIABLE 13  IS AT ELEMENT      22  NODE=       15
    ITEM= M    COMP= Z      NAME= MZ

 VARIABLE 14  IS AT ELEMENT      32  NODE=       23
    ITEM= M    COMP= X      NAME= MX

 VARIABLE 15  IS AT ELEMENT      32  NODE=       23
    ITEM= M    COMP= Z      NAME= MZ

 VARIABLE 16  IS AT ELEMENT      46  NODE=       35
    ITEM= F    COMP= Y      NAME= FY

 VARIABLE 17  IS AT ELEMENT      52  NODE=       39
    ITEM= F    COMP= X      NAME= FX

 VARIABLE 18  IS AT ELEMENT      52  NODE=       39
    ITEM= M    COMP= Y      NAME= MY

 VARIABLE 19  IS AT ELEMENT      58  NODE=       45
    ITEM= F    COMP= Z      NAME= FZ

 VARIABLE 20  IS AT ELEMENT      58  NODE=       45
    ITEM= M    COMP= Z      NAME= MZ

 VARIABLE 21  IS AT ELEMENT      71  NODE=       56
    ITEM= F    COMP= X      NAME= FX

 VARIABLE 22  IS AT ELEMENT      86  NODE=       72
    ITEM= F    COMP= X      NAME= FX

 VARIABLE 23  IS AT ELEMENT     107  NODE=       93
    ITEM= M    COMP= X      NAME= MX

 VARIABLE 24  IS AT ELEMENT     114  NODE=      102
    ITEM= F    COMP= X      NAME= FX

 VARIABLE 25  IS AT ELEMENT     114  NODE=      102
    ITEM= F    COMP= Z      NAME= FZ

 VARIABLE 26  IS AT ELEMENT     117  NODE=      103
    ITEM= F    COMP= X      NAME= FX

 VARIABLE 27  IS AT ELEMENT     123  NODE=      112
    ITEM= M    COMP= Y      NAME= MY

 VARIABLE 28  IS AT ELEMENT     125  NODE=      101
    ITEM= F    COMP= X      NAME= FX

 VARIABLE 29  IS AT ELEMENT     125  NODE=      101
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   ITEM= M    COMP= Y     NAME= MY

VARIABLE 30  IS AT ELEMENT      139  NODE=        65
   ITEM= F    COMP= X     NAME= FX

STORAGE COMPLETE FOR      99 DATA POINTS

        SUMMARY OF VARIABLES STORED THIS STEP AND EXTREME VALUES
VARI TYPE     IDENTIFIERS     NAME    MINIMUM     AT TIME     MAXIMUM    AT TIME

   2 ESOL      1 F     X      FX       -0.596.E-03  2.000      0.2692E-03  1.340
   3 ESOL      1 F     Y      FY       -0.2188E-03  2.000      0.1119E-03  1.340
   4 ESOL      1 M     X      MX       -0.2179E-03  1.700      0.1493E-03 0.6400
   5 ESOL      1 M     Y      MY       -0.1207E-02  1.360      0.2397E-02  2.000
   6 ESOL      8 F     X      FX       -0.9674E-04 0.4200      0.8554E-04  1.360
   7 ESOL      8 M     Z      MZ       -0.1585E-03  1.360      0.1331E-03 0.4200
   8 ESOL     12 F     X      FX       -0.4564E-03  1.180      0.1244E-02  2.000
   9 ESOL     12 F     Z      FZ       -0.9083E-04  1.360      0.1074E-03  1.700
  10 ESOL     12 M     X      MX       -0.9411E-03  1.720      0.9270E-03  1.360
  11 ESOL     12 M     Z      MZ       -0.3378E-02  2.000      0.1324E-02  1.180
  12 ESOL     22 F     Z      FZ       -0.1321E-03  1.340      0.1479E-03  1.720
  13 ESOL     22 M     Z      MZ       -0.1872E-02  2.000      0.8005E-03  1.140
  14 ESOL     32 M     X      MX       -0.5762E-03  1.700      0.4215E-03  1.360
  15 ESOL     32 M     Z      MZ       -0.4264E-02  1.400      0.1089E-01  2.000
  16 ESOL     48 F     Y      FY       -0.2928E-03  1.360      0.2394E-03  1.740
  17 ESOL     52 F     X      FX       -0.2331E-02  2.000      0.8904E-03  1.380
  18 ESOL     52 M     Y      MY       -0.6899E-02  1.420      0.1774E-01  2.000
  19 ESOL     58 F     Z      FZ       -0.1143E-03  1.020      0.1353E-03  2.000
  20 ESOL     58 M     Z      MZ       -0.1015E-02  2.000      0.4517E-03  1.420
  21 ESOL     71 F     X      FX       -0.2986E-03  1.240      0.1017E-02  2.000
  22 ESOL     86 F     X      FX       -0.8369E-03  1.280      0.2476E-02  2.000
  23 ESOL    107 M     X      MX       -0.3547E-03  1.400      0.8847E-03  2.000
  24 ESOL    114 F     X      FX       -0.7055E-03  2.000      0.2287E-03  1.260
  25 ESOL    114 F     Z      FZ       -0.3349E-03  1.400      0.8397E-03  2.000
  26 ESOL    117 F     X      FX       -0.2845E-03  2.000      0.9979E-04  1.320
  27 ESOL    123 M     Y      MY       -0.2974E-04  2.000      0.1231E-04  1.520
  28 ESOL    125 F     X      FX       -0.5272E-03  2.000      0.1798E-03  1.280
  29 ESOL    125 M     Y      MY       -0.6016E-03  2.000      0.2059E-03  1.280
  30 ESOL    139 F     X      FX       -0.5903E-03  1.280      0.1735E-02  2.000

          POST26 SUMMARY OF VARIABLE EXTREME VALUES
VARI TYPE     IDENTIFIERS     NAME     MINIMUM     AT TIME     MAXIMUM    AT TIME

   2 ESOL      1 F     X      FX       -0.5967E-03  2.000      0.2692E-03  1.340
   3 ESOL      1 F     Y      FY       -0.2188E-03  2.000      0.1119E-03  1.340
   4 ESOL      1 M     X      MX       -0.2179E-03  1.700      0.1493E-03 0.6400
   5 ESOL      1 M     Y      MY       -0.1207E-02  1.360      0.2397E-02  2.000
   6 ESOL      8 F     X      FX       -0.9674E-04 0.4200      0.8554E-04  1.360
   7 ESOL      8 M     Z      MZ       -0.1585E-03  1.360      0.1331E-03 0.4200
   8 ESOL     12 F     X      FX       -0.4564E-03  1.180      0.1244E-02  2.000
   9 ESOL     12 F     Z      FZ       -0.9083E-04  1.360      0.1074E-03  1.700
  10 ESOL     12 M     X      MX       -0.9411E-03  1.720      0.9270E-03  1.360
  11 ESOL     12 M     Z      MZ       -0.3378E-02  2.000      0.1324E-02  1.180
  12 ESOL     22 F     Z      FZ       -0.1321E-03  1.340      0.1479E-03  1.720
  13 ESOL     22 M     Z      MZ       -0.1872E-02  2.000      0.8005E-03  1.140
  14 ESOL     32 M     X      MX       -0.5762E-03  1.700      0.4215E-03  1.360
  15 ESOL     32 M     Z      MZ       -0.4264E-02  1.400      0.1089E-01  2.000
  16 ESOL     48 F     Y      FY       -0.2928E-03  1.360      0.2394E-03  1.740
  17 ESOL     52 F     X      FX       -0.2331E-02  2.000      0.8904E-03  1.380
  18 ESOL     52 M     Y      MY       -0.6899E-02  1.420      0.1774E-01  2.000
  19 ESOL     58 F     Z      FZ       -0.1143E-03  1.020      0.1353E-03  2.000
  20 ESOL     58 M     Z      MZ       -0.1015E-02  2.000      0.4517E-03  1.420
  21 ESOL     71 F     X      FX       -0.2986E-03  1.240      0.1017E-02  2.000
  22 ESOL     86 F     X      FX       -0.8369E-03  1.280      0.2476E-02  2.000
  23 ESOL    107 M     X      MX       -0.3547E-03  1.400      0.8847E-03  2.000
  24 ESOL    114 F     X      FX       -0.7055E-03  2.000      0.2287E-03  1.260
  25 ESOL    114 F     Z      FZ       -0.3349E-03  1.400      0.8397E-03  2.000
  26 ESOL    117 F     X      FX       -0.2845E-03  2.000      0.9979E-04  1.320
  27 ESOL    123 M     Y      MY       -0.2974E-04  2.000      0.1231E-04  1.520
  28 ESOL    125 F     X      FX       -0.5272E-03  2.000      0.1798E-03  1.280
  29 ESOL    125 M     Y      MY       -0.6016E-03  2.000      0.2059E-03  1.280
  30 ESOL    139 F     X      FX       -0.5903E-03  1.280      0.1735E-02  2.000

ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2tfx.db
 FOR POSSIBLE RESUME FROM THIS POINT


***** ROUTINE COMPLETED *****  CP =      17949.300


*****  ANSYS SOLUTION ROUTINE  *****


PERFORM AN EXPANSION PASS


EXPAND   100 SOLUTIONS
 IN THE RANGE FROM  0.10000      TO  0.20000
 CALCULATE ELEMENT RESULTS AS WELL AS THE NODAL DOF SOLUTION

PRINT BASI ITEMS WITH A FREQUENCY OF NONE
  FOR ALL APPLICABLE ENTITIES

*****  ANSYS SOLVE    COMMAND  *****
1

*****  ANSYS  -  ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC      06:13:04  OCT 11, 1995 CP=  17949.329
FOR SUPPORT CALL                    PHONE                      FAX
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 Time-history analysis of coupled system (pressurizer spray line)

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**

                    S O L U T I O N   O P T I O N S

  PROBLEM DIMENSIONALITY. . . . . . . . . . . . . .3-D
  DEGREES OF FREEDOM. . . . . . UX   UY   UZ   ROTX ROTY ROTZ
  ANALYSIS TYPE . . . . . . . . . . . . . . . . . .TRANSIENT
     SOLUTION METHOD. . . . . . . . . . . . . . . .REDUCED
     EXPANSION PASS . . . . . . . . . . . . . . . .ON

                    L O A D   S T E P   O P T I O N S

  LOAD STEP NUMBER. . . . . . . . . . . . . . . . .  1
  NUMBER OF SOLUTIONS TO BE EXPANDED. . . . . . . .  100
    RANGE. . . . . . . . . . . . . . . . . . . . . . 0.10000     TO  0.20000
  ELEMENT RESULTS CALCULATION . . . . . . . . . . .  ON
  PRINT OUTPUT CONTROLS
     ITEM       FREQUENCY    COMPONENT
     BASI         NONE
  DATABASE OUTPUT CONTROLS
     ITEM       FREQUENCY    COMPONENT
     NSOL         LAST


   *** ELEMENT RESULT CALCULATION TIMES
  TYPE  NUMBER    ENAME       TOTAL CP  AVE CP

     1      120  PIPE16         0.525    0   1
     2       22  PIPE18         0.168    0..08
     3       10  COMBIN14       0.010    0.001
     4       12  COMBIN14       0.010    0.001
     5       11  COMBIN14       0.000    0.000
     6        3  COMBIN14       0.000    0.000
     7        3  COMBIN14       0.000    0.000
     8        3  COMBIN14       0.000    0.000
    30       31  MASS21         0.041    0.001
    71       12  BEAM4          0.043    0.004
    72        5  MASS21         0.010    0.002

   *** NODAL LOAD CALCULATION TIMES
  TYPE  NUMBER    ENAME       TOTAL CP  AVE CP

     1      120  PIPE16         0.059    0.000
     2       22  PIPE18         0.020    0.001
     3       10  COMBIN14       0.010    0.001
     4       12  COMBIN14       0.039    0.003
     5       11  COMBIN14       0.000    0.000
     6        3  COMBIN14       0.000    0.000
     7        3  COMBIN14       0.010    0.003
     8        3  COMBIN14       0.000    0.000
    30       31  MASS21         0.010    0.000
    71       12  BEAM4          0.010    0.001
    72        5  MASS21         0.000    0.000


*** ANSYS BINARY FILE STATISTICS
 BUFFER SIZE USED=  4096
      33.078 MB WRITTEN ON RESULTS FILE: pb2tfx.rst

ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2tfx.db
 FOR POSSIBLE RESUME FROM THIS POINT

FINISH SOLUTION PROCESSING


***** ROUTINE COMPLETED *****  CP =      18162.760


1

*****  ANSYS  -  ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC      06:20:38  OCT 11, 1995 CP=  18162.780
FOR SUPPORT CALL                    PHONE                      FAX

 Time-history analysis of coupled system (pressurizer spray line)

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**

        ***** TIME-HISTORY POSTPROCESSOR (POST26) *****

ALL POST26 SPECIFICATIONS ARE RESET TO INITIAL DEFAULTS

MAXIMUM NUMBER OF VARIABLES= 30

VARIABLE  2  IS AT ELEMENT       1  NODE=        1
   ITEM= F    COMP= X     NAME= FX

VARIABLE  3  IS AT ELEMENT       1  NODE=        1
   ITEM= F    COMP= Y     NAME= FY

VARIABLE  4  IS AT ELEMENT       1  NODE=        1
   ITEM= M    COMP= X     NAME= MX

VARIABLE  5  IS AT ELEMENT       1  NODE=        1
   ITEM= M    COMP= Y     NAME= MY

VARIABLE  6  IS AT ELEMENT       8  NODE=        6
   ITEM= F    COMP= X     NAME= FX
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VARIABLE  7  IS AT ELEMENT       8  NODE=        6
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE  8  IS AT ELEMENT      12  NODE=       10
   ITEM= F    COMP= X      NAME= FX

VARIABLE  9  IS AT ELEMENT      12  NODE=       10
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 10  IS AT ELEMENT      12  NODE=       10
   ITEM= M    COMP= X      NAME= MX

VARIABLE 11  IS AT ELEMENT      12  NODE=       10
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE 12  IS AT ELEMENT      22  NODE=       15
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 13  IS AT ELEMENT      22  NODE=       15
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE 14  IS AT ELEMENT      32  NODE=       23
   ITEM= M    COMP= X      NAME= MX

VARIABLE 15  IS AT ELEMENT      32  NODE=       23
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE 16  IS AT ELEMENT      48  NODE=       35
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 17  IS AT ELEMENT      52  NODE=       39
   ITEM= F    COMP= X      NAME= FX

VARIABLE 18  IS AT ELEMENT      52  NODE=       39
   ITEM= M    COMP= Y      NAME= MY

VARIABLE 19  IS AT ELEMENT      58  NODE=       45
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 20  IS AT ELEMENT      58  NODE=       45
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE 21  IS AT ELEMENT      71  NODE=       56
   ITEM= F    COMP= X      NAME= FX

VARIABLE 22  IS AT ELEMENT      86  NODE=       72
   ITEM= F    COMP= X      NAME= FX

VARIABLE 23  IS AT ELEMENT     107  NODE=       93
   ITEM= M    COMP= X      NAME= MX

VARIABLE 24  IS AT ELEMENT     114  NODE=      102
   ITEM= F    COMP= X      NAME= FX

VARIABLE 25  IS AT ELEMENT     114  NODE=      102
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 26  IS AT ELEMENT     117  NODE=      103
   ITEM= F    COMP= X      NAME= FX

VARIABLE 27  IS AT ELEMENT     123  NODE=      112
   ITEM= M    COMP= Y      NAME= MY

VARIABLE 28  IS AT ELEMENT     125  NODE=      101
   ITEM= F    COMP= X      NAME= FX

VARIABLE 29  IS AT ELEMENT     125  NODE=      101
   ITEM= M    COMP= Y      NAME= MY

VARIABLE 30  IS AT ELEMENT     139  NODE=       65
   ITEM= F    COMP= X      NAME= FX

STORAGE COMPLETE FOR     99 DATA POINTS

        SUMMARY OF VARIABLES STORED THIS STEP AND EXTREME VALUES
VARI TYPE     IDENTIFIERS      NAME    MINIMUM     AT TIME     MAXIMUM    AT TIME
   2 ESOL      1 F    X      FX       -0.5912E-02  3.520      0.7182E-02  3.780
   3 ESOL      1 F    Y      FY       -0.1477E-02  3.340      0.1455E-02  3.900
   4 ESOL      1 M    X      MX       -0.5571E-02  4.000      0.4926E-02  3.680
   5 ESOL      1 M    Y      MY       -0.2174E-01  3.900      0.1821E-01  3.520
   6 ESOL      8 F    X      FX       -0.4096E-02  3.520      0.5378E-02  3.780
   7 ESOL      8 M    Z      MZ       -0.6839E-02  3.780      0.5129E-02  3.520
   8 ESOL     12 F    X      FX       -0.7576E-02  3.620      0.5039E-02  2.640
   9 ESOL     12 F    Z      FZ       -0.2959E-02  3.720      0.2948E-02  4.000
  10 ESOL     12 M    X      MX       -0.2044E-01  4.000      0.2626E-01  3.720
  11 ESOL     12 M    Z      MZ       -0.2405E-01  3.780      0.2971E-01  3.600
  12 ESOL     22 F    Z      FZ       -0.4274E-02  3.760      0.4454E-02  4.000
  13 ESOL     22 M    Z      MZ       -0.3183E-01  3.780      0.2803E-01  3.600
  14 ESOL     32 M    X      MX       -0.1465E-01  4.000      0.1432E-01  3.780
  15 ESOL     32 M    Z      MZ       -0.7234E-01  3.920      0.4466E-01  3.460
  16 ESOL     48 F    Y      FY       -0.9343E-02  3.780      0.5993E-02  4.000
  17 ESOL     52 F    X      FX       -0.9261E-02  3.420      0.1410E-01  3.920
  18 ESOL     52 M    Y      MY       -0.1147      3.940      0.6341E-01  3.580
  19 ESOL     58 F    Z      FZ       -0.3404E-02  3.300      0.3113E-02  3.740
  20 ESOL     58 M    Z      MZ       -0.9578E-02  3.500      0.8794E-02  3.860
  21 ESOL     71 F    X      FX       -0.4997E-01  3.040      0.4495E-01  3.180
  22 ESOL     86 F    X      FX       -0.4348E-01  3.040      0.3546E-01  2.920
  23 ESOL    107 M    X      MX       -0.6601E-02  3.940      0.4653E-02  3.420
  24 ESOL    114 F    X      FX       -0.1605E-01  3.160      0.1850E-01  3.040
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  25 ESOL    114 F    Z      FZ       -0.5860E-02  3.940      0.3410E-02  3.420
  26 ESOL    117 F    X      FX       -0.2524E-02  3.340      0.2574E-02  3.040
  27 ESOL    123 M    Y      MY       -0.2559E-03  3.060      0.4146E-03  3.180
  28 ESOL    125 F    X      FX       -0.7490E-02  3.340      0.8777E-02  3.040
  29 ESOL    125 M    Y      MY       -0.8415E-02  3.340      0.1001E-01  3.040
  30 ESOL    139 F    X      FX       -0.2495E-01  3.040      0.1985E-01  2.920

        POST26 SUMMARY OF VARIABLE EXTREME VALUES
VARI TYPE     IDENTIFIERS      NAME    MINIMUM     AT TIME     MAXIMUM    AT TIME
   2 ESOL      1 F    X      FX       -0.5912E-02  3.520      0.7182E-02  3.780
   3 ESOL      1 F    Y      FY       -0.1477E-02  3.340      0.1455E-02  3.900
   4 ESOL      1 M    X      MX       -0.5571E-02  4.000      0.4926E-02  3.680
   5 ESOL      1 M    Y      MY       -0.2174E-01  3.900      0.1821E-01  3.520
   6 ESOL      8 F    X      FX       -0.4096E-02  3.520      0.5378E-02  3.780
   7 ESOL      8 M    Z      MZ       -0.6839E-02  3.780      0.5129E-02  3.520
   8 ESOL     12 F    X      FX       -0.7576E-02  3.620      0.5039E-02  2.640
   9 ESOL     12 F    Z      FZ       -0.2959E-02  3.720      0.2948E-02  4.000
  10 ESOL     12 M    X      MX       -0.2044E-01  4.000      0.2626E-01  3.720
  11 ESOL     12 M    Z      MZ       -0.2405E-01  3.780      0.2971E-01  3.600
  12 ESOL     22 F    Z      FZ       -0.4274E-02  3.760      0.4454E-02  4.000
  13 ESOL     22 M    Z      MZ       -0.3183E-01  3.780      0.2803E-01  3.600
  14 ESOL     32 M    X      MX       -0.1465E-01  4.000      0.1432E-01  3.780
  15 ESOL     32 M    Z      MZ       -0.7234E-01  3.920      0.4466E-01  3.460
  16 ESOL     48 F    Y      FY       -0.9343E-02  3.780      0.5993E-02  4.000
  17 ESOL     52 F    X      FX       -0.9261E-02  3.420      0.1410E-01  3.920
  18 ESOL     52 M    Y      MY       -0.1147      3.940      0.6341E-01  3.580
  19 ESOL     58 F    Z      FZ       -0.3404E-02  3.300      0.3113E-02  3.740
  20 ESOL     58 M    Z      MZ       -0.9578E-02  3.500      0.8794E-02  3.860
  21 ESOL     71 F    X      FX       -0.4997E-01  3.040      0.4495E-01  3.180
  22 ESOL     86 F    X      FX       -0.4348E-01  3.040      0.3546E-01  2.920
  23 ESOL    107 M    X      MX       -0.6601E-02  3.940      0.4653E-02  3.420
  24 ESOL    114 F    X      FX       -0.1605E-01  3.160      0.1850E-01  3.040
  25 ESOL    114 F    Z      FZ       -0.5860E-02  3.940      0.3410E-02  3.420
  26 ESOL    117 F    X      FX       -0.2524E-02  3.340      0.2574E-02  3.040
  27 ESOL    123 M    Y      MY       -0.2559E-03  3.060      0.4146E-03  3.180
  28 ESOL    125 F    X      FX       -0.7490E-02  3.340      0.8777E-02  3.040
  29 ESOL    125 M    Y      MY       -0.8415E-02  3.340      0.1001E-01  3.040
  30 ESOL    139 F    X      FX       -0.2495E-01  3.040      0.1985E-01  2.920

ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2tfx.db
 FOR POSSIBLE RESUME FROM THIS POINT


***** ROUTINE COMPLETED *****  CP =      18172.191



*****  ANSYS SOLUTION ROUTINE  *****

PERFORM AN EXPANSION PASS


EXPAND   100 SOLUTIONS
 IN THE RANGE FROM  0.20000     TO  0.30000
 CALCULATE ELEMENT RESULTS AS WELL AS THE NODAL DOF SOLUTION

PRINT BASIC ITEMS WITH A FREQUENCY OF NONE
  FOR ALL APPLICABLE ENTITIES

*****  ANSYS SOLVE    COMMAND  *****
1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2           VERSION=SUN4SPARC      06:21:03  OCT 11, 1995 CP=  18172.211
FOR SUPPORT CALL                    PHONE                        FAX

 Time-history analysis of coupled system (pressurizer spray line)

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**

                    S O L U T I O N   O P T I O N S

  PROBLEM DIMENSIONALITY. . . . . .3-D
  DEGREES OF FREEDOM. . . . . UX   UY   UZ   ROTX ROTY ROTZ
  ANALYSIS TYPE . . . . . .TRANSIENT
     SOLUTION METHOD. . . . . .REDUCED
     EXPANSION PASS . . . . . .ON

                  L O A D   S T E P   O P T I O N S

  LOAD STEP NUMBER. . . . . 1
  NUMBER OF SOLUTIONS TO BE EXPANDED. . . . . 100
     RANGE. . . . . 0.20000     TO  0.30000
  ELEMENT RESULTS CALCULATION . . . . . ON
  PRINT OUTPUT CONTROLS
     ITEM      FREQUENCY    COMPONENT
     BASIC       NONE
  DATABASE OUTPUT CONTROLS
     ITEM      FREQUENCY    COMPONENT
     NSOL        LAST


  *** ELEMENT RESULT CALCULATION TIMES
TYPE  NUMBER   ENAME       TOTAL CP  AVE CP

   1      120  PIPE16         0.602    0.005
   2       22  PIPE18         0.158    0.007
   3       10  COMBIN14       0.010    0.001
   4       12  COMBIN14       0.020    0.002
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5	11	COMBIN14	0.020	0.002
6	3	COMBIN14	0.010	0.003
7	3	COMBIN14	0.000	0.000
8	3	COMBIN14	0.000	0.000
30	31	MASS21	0.010	0.000
71	12	BEAM4	0.051	0.004
72	5	MASS21	0.010	0.002

*** NODAL LOAD CALCULATION TIMES

TYPE	NUMBER	ENAME	TOTAL CP	AVE CP
1	120	PIPE16	0.053	0.000
2	22	PIPE18	0.020	0.001
3	10	COMBIN14	0.000	0.000
4	12	COMBIN14	0.012	0.001
5	11	COMBIN14	0.000	0.000
6	3	COMBIN14	0.000	0.000
7	3	COMBIN14	0.000	0.000
8	3	COMBIN14	0.000	0.000
30	31	MASS21	0.010	0.000
71	12	BEAM4	0.030	0.002
72	5	MASS21	0.000	0.000

*** ANSYS BINARY FILE STATISTICS
BUFFER SIZE USED= 4096
33.076 MB WRITTEN ON RESULTS FILE: pb2tfx.rst

ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2tfx.db
FOR POSSIBLE RESUME FROM THIS POINT

FINISH SOLUTION PROCESSING

***** ROUTINE COMPLETED ***** CP = 18385.569

1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM REVISION 5.0 *****
40416-2 VERSION=SUN4SPARC 06:28:35 OCT 11, 1995 CP= 18385.589
FOR SUPPORT CALL PHONE FAX

Time-history analysis of coupled system (pressurizer spray line)

ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY

***** TIME-HISTORY POSTPROCESSOR (POST26) *****

ALL POST26 SPECIFICATIONS ARE RESET TO INITIAL DEFAULTS

MAXIMUM NUMBER OF VARIABLES= 30

VARIABLE 2 IS AT ELEMENT 1 NODE= 1
ITEM= F COMP= X NAME= FX

VARIABLE 3 IS AT ELEMENT 1 NODE= 1
ITEM= F COMP= Y NAME= FY

VARIABLE 4 IS AT ELEMENT 1 NODE= 1
ITEM= M COMP= X NAME= MX

VARIABLE 5 IS AT ELEMENT 1 NODE= 1
ITEM= M COMP= Y NAME= MY

VARIABLE 6 IS AT ELEMENT 8 NODE= 6
ITEM= F COMP= X NAME= FX

VARIABLE 7 IS AT ELEMENT 8 NODE= 6
ITEM= M COMP= Z NAME= MZ

VARIABLE 8 IS AT ELEMENT 12 NODE= 10
ITEM= F COMP= X NAME= FX

VARIABLE 9 IS AT ELEMENT 12 NODE= 10
ITEM= F COMP= Z NAME= FZ

VARIABLE 10 IS AT ELEMENT 12 NODE= 10
ITEM= M COMP= X NAME= MX

VARIABLE 11 IS AT ELEMENT 12 NODE= 10
ITEM= M COMP= Z NAME= MZ

VARIABLE 12 IS AT ELEMENT 22 NODE= 15
ITEM= F COMP= Z NAME= FZ

VARIABLE 13 IS AT ELEMENT 22 NODE= 15
ITEM= M COMP= Z NAME= MZ

VARIABLE 14 IS AT ELEMENT 23 NODE= 23
ITEM= M COMP= X NAME= MX

VARIABLE 15 IS AT ELEMENT 32 NODE= 23
ITEM= M COMP= Z NAME= MZ

VARIABLE 16 IS AT ELEMENT 48 NODE= 35
ITEM= F COMP= Y NAME= FY

VARIABLE 17 IS AT ELEMENT 52 NODE= 39
ITEM= F COMP= X NAME= FX

VARIABLE 18 IS AT ELEMENT 52 NODE= 39
ITEM= M COMP= Y NAME= MY

VARIABLE 19 IS AT ELEMENT 58 NODE= 45
ITEM= F COMP= Z NAME= FZ

VARIABLE 20 IS AT ELEMENT 58 NODE= 45
ITEM= M COMP= Z NAME= MZ

VARIABLE 21 IS AT ELEMENT 71 NODE= 56
ITEM= F COMP= X NAME= FX

VARIABLE 22 IS AT ELEMENT 86 NODE= 72
ITEM= F COMP= X NAME= FX

VARIABLE 23 IS AT ELEMENT 107 NODE= 93
ITEM= M COMP= X NAME= MX

VARIABLE 24 IS AT ELEMENT 114 NODE= 102
ITEM= F COMP= X NAME= FX

VARIABLE 25 IS AT ELEMENT 114 NODE= 102
ITEM= F COMP= Z NAME= FZ

VARIABLE 26 IS AT ELEMENT 117 NODE= 103
ITEM= F COMP= X NAME= FX

VARIABLE 27 IS AT ELEMENT 123 NODE= 112
ITEM= M COMP= Y NAME= MY

VARIABLE 28 IS AT ELEMENT 125 NODE= 101
ITEM= F COMP= X NAME= FX

VARIABLE 29 IS AT ELEMENT 125 NODE= 101
ITEM= M COMP= Y NAME= MY

VARIABLE 30 IS AT ELEMENT 139 NODE= 65
ITEM= F COMP= X NAME= FX

STORAGE COMPLETE FOR 99 DATA POINTS

SUMMARY OF VARIABLES STORED THIS STEP AND EXTREME VALUES

VARI	TYPE	IDENTIFIERS	NAME	MINIMUM	AT TIME	MAXIMUM	AT TIME
1	[illegible]						
2	ESOL	1 F X	FX	-0.2136E-01	5.780	0.4302E-01	5.900
3	ESOL	1 F Y	FY	-0.8955E-02	6.000	0.9216E-02	5.720
4	ESOL	1 M X	MX	-0.2784E-01	6.000	0.1574E-01	5.740
5	ESOL	1 M Y	MY	-0.1110	5.840	0.6069E-01	5.360
6	ESOL	8 F X	FX	-0.2290E-01	5.780	0.4787E-01	5.920
7	ESOL	8 M Z	MZ	-0.5216E-01	5.900	0.1658E-01	5.760
8	ESOL	12 F X	FX	-0.5371E-01	5.740	0.9394E-01	5.920
9	ESOL	12 F Z	FZ	-0.1004E-01	5.760	0.1539E-01	6.000
10	ESOL	12 M X	MX	-0.1397	6.000	0.1011	5.780
11	ESOL	12 M Z	MZ	-0.3744	5.920	0.2001	5.760
12	ESOL	22 F Z	FZ	-0.1231E-01	5.740	0.1615E-01	6.000
13	ESOL	22 M Z	MZ	-0.3353	5.900	0.1290	5.760
14	ESOL	32 M X	MX	-0.8614E-01	6.000	0.4652E-01	5.780
15	ESOL	32 M Z	MZ	-0.3548	5.760	0.1472	5.380
16	ESOL	48 F Y	FY	-0.2257E-01	5.840	0.2653E-01	6.000
17	ESOL	52 F X	FX	-0.4207E-01	6.000	0.7346E-01	5.800
18	ESOL	52 M Y	MY	-0.6544	5.820	0.2847	6.000
19	ESOL	58 F Z	FZ	-0.1390E-01	5.980	0.7635E-02	5.760
20	ESOL	58 M Z	MZ	-0.3308E-01	5.420	0.5710E-01	5.960
21	ESOL	71 F X	FX	-0.7430E-01	5.700	0.1473	5.840
22	ESOL	86 F X	FX	-0.9244E-01	5.720	0.7642E-01	5.840
23	ESOL	107 M X	MX	-0.3560E-01	5.820	0.1933E-01	6.000
24	ESOL	114 F X	FX	-0.4283E-01	5.840	0.3157E-01	5.720
25	ESOL	114 F Z	FZ	-0.3231E-01	5.820	0.1492E-01	6.000
26	ESOL	117 F X	FX	-0.4493E-02	5.240	0.8402E-02	5.720
27	ESOL	123 M Y	MY	-0.9255E-03	6.000	0.1903E-02	5.840
28	ESOL	125 F X	FX	-0.1140E-01	5.840	0.1861E-01	5.720
29	ESOL	125 M Y	MY	-0.1295E-01	5.840	0.2126E-01	5.720
30	ESOL	139 F X	FX	-0.6196E-01	5.720	0.4443E-01	5.840

POST26 SUMMARY OF VARIABLE EXTREME VALUES

VARI	TYPE	IDENTIFIERS	NAME	MINIMUM	AT TIME	MAXIMUM	AT TIME
2	ESOL	1 F X	FX	-0.2136E-01	5.780	0.4302E-01	5.900
3	ESOL	1 F Y	FY	-0.8955E-02	6.000	0.9216E-02	5.720
4	ESOL	1 M X	MX	-0.2784E-01	6.000	0.1574E-01	5.740
5	ESOL	1 M Y	MY	-0.1110	5.840	0.6069E-01	5.360
6	ESOL	8 F X	FX	-0.2290E-01	5.780	0.4787E-01	5.920
7	ESOL	8 M Z	MZ	-0.5216E-01	5.900	0.1658E-01	5.760
8	ESOL	12 F X	FX	-0.5371E-01	5.740	0.9394E-01	5.920
9	ESOL	12 F Z	FZ	-0.1004E-01	5.760	0.1539E-01	6.000
10	ESOL	12 M X	MX	-0.1397	6.000	0.1011	5.780
11	ESOL	12 M Z	MZ	-0.3744	5.920	0.2001	5.760
12	ESOL	22 F Z	FZ	-0.1231E-01	5.740	0.1615E-01	6.000
13	ESOL	22 M Z	MZ	-0.3353	5.900	0.1290	5.760
14	ESOL	32 M X	MX	-0.8614E-01	6.000	0.4652E-01	5.780
15	ESOL	32 M Z	MZ	-0.3548	5.760	0.1472	5.380
16	ESOL	48 F Y	FY	-0.2257E-01	5.840	0.2653E-01	6.000
17	ESOL	52 F X	FX	-0.4207E-01	6.000	0.7346E-01	5.800
18	ESOL	52 M Y	MY	-0.6544	5.820	0.2847	6.000
19	ESOL	58 F Z	FZ	-0.1390E-01	5.980	0.7635E-02	5.760
20	ESOL	58 M Z	MZ	-0.3308E-01	5.420	0.5710E-01	5.960
21	ESOL	71 F X	FX	-0.7430E-01	5.700	0.1473	5.840
22	ESOL	86 F X	FX	-0.9244E-01	5.720	0.7642E-01	5.840
23	ESOL	107 M X	MX	-0.3560E-01	5.820	0.1933E-01	6.000
24	ESOL	114 F X	FX	-0.4283E-01	5.840	0.3157E-01	5.720

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 25 ESOL   114 F     Z     FZ        -0.3231E-01  5.820     0.1492E-01  6.000
 26 ESOL   117 F     X     FX        -0.4493E-02  5.240     0.8402E-02  5.720
 27 ESOL   123 M     Y     MY        -0.9255E-03  6.000     0.1903E-02  5.840
 28 ESOL   125 F     X     FX        -0.1140E-01  5.840     0.1861E-01  5.720
 29 ESOL   125 M     Y     MY        -0.1295E-01  5.840     0.2126E-01  5.720
 30 ESOL   139 F     X     FX        -0.6196E-01  5.720     0.4441E-01  5.840

ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2tfx.db
 FOR POSSIBLE RESUME FROM THIS POINT


***** ROUTINE COMPLETED *****  CP =      18395.325



*****  ANSYS SOLUTION ROUTINE  *****

PERFORM AN EXPANSION PASS


EXPAND   100 SOLUTIONS
 IN THE RANGE FROM  0.30000      TO  0.40000
 CALCULATE ELEMENT RESULTS AS WELL AS THE NODAL DOF SOLUTION

PRINT BASI ITEMS WITH A FREQUENCY OF NONE
  FOR ALL APPLICABLE ENTITIES

*****  ANSYS SOLVE    COMMAND  *****
1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2            VERSION=SUN4SPARC     06:29:01  OCT 11, 1995 CP=   18395.361
FOR SUPPORT CALL                    PHONE                    FAX

 Time-history analysis of coupled system (pressurizer spray line)

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**

                    S O L U T I O N   O P T I O N S

  PROBLEM DIMENSIONALITY. . . . . .3-D
  DEGREES OF FREEDOM. . . . . UX   UY   UZ   ROTX ROTY ROTZ
  ANALYSIS TYPE . . . . . .TRANSIENT
     SOLUTION METHOD. . . . . .REDUCED
     EXPANSION PASS . . . . . .ON

                    L O A D   S T E P   O P T I O N S

  LOAD STEP NUMBER. . . . . 1
  NUMBER OF SOLUTIONS TO BE EXPANDED. . . . . 100
     RANGE. . . . . 0.30000      TO  0.40000
  ELEMENT RESULTS CALCULATION . . . . . ON
  PRINT OUTPUT CONTROLS
     ITEM      FREQUENCY   COMPONENT
     BASI      NONE
  DATABASE OUTPUT CONTROLS
     ITEM      FREQUENCY   COMPONENT
     NSOL      LAST


   *** ELEMENT RESULT CALCULATION TIMES
 TYPE  NUMBER   ENAME      TOTAL CP  AVE CP

    1     120  PIPE16        0.517    0.004
    2      22  PIPE18        0.150    0.007
    3      10  COMBIN14      0.020    0.002
    4      12  COMBIN14      0.000    0.000
    5      11  COMBIN14      0.030    0.003
    6       3  COMBIN14      0.010    0.003
    7       3  COMBIN14      0.010    0.003
    8       3  COMBIN14      0.000    0.000
   30      31  MASS21        0.020    0.001
   71      12  BEAM4         0.039    0.003
   72       5  MASS21        0.010    0.002

   *** MODAL LOAD CALCULATION TIMES
 TYPE  NUMBER   ENAME      TOTAL CP  AVE CP

    1     120  PIPE16        0.088    0.001
    2      22  PIPE18        0.030    0.001
    3      10  COMBIN14      0.000    0.000
    4      12  COMBIN14      0.010    0.001
    5      11  COMBIN14      0.000    0.000
    6       3  COMBIN14      0.000    0.000
    7       3  COMBIN14      0.000    0.000
    8       3  COMBIN14      0.000    0.000
   30      31  MASS21        0.010    0.000
   71      12  BEAM4         0.000    0.000
   72       5  MASS21        0.010    0.002


 *** ANSYS BINARY FILE STATISTICS
 BUFFER SIZE USED=  4096
       33.078 MB WRITTEN ON RESULTS FILE: pb2tfx.rst

ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2tfx.db
 FOR POSSIBLE RESUME FROM THIS POINT

FINISH SOLUTION PROCESSING
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***** ROUTINE COMPLETED *****  CP =      18608.640


1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2            VERSION=SUN4SPARC     06:36:42  OCT 11, 1995 CP=   18608.660
FOR SUPPORT CALL                    PHONE                    FAX

 Time-history analysis of coupled system (pressurizer spray line)

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**

        ***** TIME-HISTORY POSTPROCESSOR (POST26) *****

ALL POST26 SPECIFICATIONS ARE RESET TO INITIAL DEFAULTS

MAXIMUM NUMBER OF VARIABLES= 30

VARIABLE  2  IS AT ELEMENT       1  NODE=        1
   ITEM= F    COMP= X      NAME= FX

VARIABLE  3  IS AT ELEMENT       1  NODE=        1
   ITEM= F    COMP= Y      NAME= FY

VARIABLE  4  IS AT ELEMENT       1  NODE=        1
   ITEM= M    COMP= X      NAME= MX

VARIABLE  5  IS AT ELEMENT       1  NODE=        1
   ITEM= M    COMP= Y      NAME= MY

VARIABLE  6  IS AT ELEMENT       8  NODE=        6
   ITEM= F    COMP= X      NAME= FX

VARIABLE  7  IS AT ELEMENT       8  NODE=        6
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE  8  IS AT ELEMENT      12  NODE=       10
   ITEM= F    COMP= X      NAME= FX

VARIABLE  9  IS AT ELEMENT      12  NODE=       10
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 10  IS AT ELEMENT      12  NODE=       10
   ITEM= M    COMP= X      NAME= MX

VARIABLE 11  IS AT ELEMENT      12  NODE=       10
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE 12  IS AT ELEMENT      22  NODE=       15
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 13  IS AT ELEMENT      22  NODE=       15
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE 14  IS AT ELEMENT      32  NODE=       23
   ITEM= M    COMP= X      NAME= MX

VARIABLE 15  IS AT ELEMENT      32  NODE=       23
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE 16  IS AT ELEMENT      48  NODE=       35
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 17  IS AT ELEMENT      52  NODE=       39
   ITEM= F    COMP= X      NAME= FX

VARIABLE 18  IS AT ELEMENT      52  NODE=       39
   ITEM= M    COMP= Y      NAME= MY

VARIABLE 19  IS AT ELEMENT      58  NODE=       45
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 20  IS AT ELEMENT      58  NODE=       45
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE 21  IS AT ELEMENT      71  NODE=       56
   ITEM= F    COMP= X      NAME= FX

VARIABLE 22  IS AT ELEMENT      86  NODE=       72
   ITEM= F    COMP= X      NAME= FX

VARIABLE 23  IS AT ELEMENT     107  NODE=       93
   ITEM= M    COMP= X      NAME= MX

VARIABLE 24  IS AT ELEMENT     114  NODE=      102
   ITEM= F    COMP= X      NAME= FX

VARIABLE 25  IS AT ELEMENT     114  NODE=      102
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 26  IS AT ELEMENT     117  NODE=      103
   ITEM= F    COMP= X      NAME= FX

VARIABLE 27  IS AT ELEMENT     123  NODE=      112
   ITEM= M    COMP= Y      NAME= MY

VARIABLE 28  IS AT ELEMENT     125  NODE=      101
   ITEM= F    COMP= X      NAME= FX
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 VARIABLE 29  IS AT ELEMENT      125  NODE=       101
    ITEM= M    COMP= Y      NAME= MY

 VARIABLE 30  IS AT ELEMENT      139  NODE=        65
    ITEM= F    COMP= X      NAME= FX

 STORAGE COMPLETE FOR      99 DATA POINTS

         SUMMARY OF VARIABLES STORED THIS STEP AND EXTREME VALUES
 VARI TYPE     IDENTIFIERS     NAME    MINIMUM     AT TIME     MAXIMUM     AT TIME

   2 ESOL      1 F     X      FX       -0.5383E-01  6.900      0.6540E-01  7.020
   3 ESOL      1 F     Y      FY       -0.1637E-01  7.340      0.1213E-01  6.400
   4 ESOL      1 M     X      MX       -0.6275E-01  7.340      0.5581E-01  7.000
   5 ESOL      1 M     Y      MY       -0.1341      7.660      0.1190      6.140
   6 ESOL      8 F     X      FX       -0.5068E-01  6.880      0.6250E-01  7.020
   7 ESOL      8 M     Z      MZ       -0.8035E-01  7.020      0.6018E-01  6.100
   8 ESOL     12 F     X      FX       -0.9127E-01  7.460      0.1037      7.020
   9 ESOL     12 F     Z      FZ       -0.3081E-01  7.000      0.3542E-01  7.340
  10 ESOL     12 M     X      MX       -0.3331      7.340      0.2822      7.000
  11 ESOL     12 M     Z      MZ       -0.4035      7.020      0.3430      7.960
  12 ESOL     22 F     Z      FZ       -0.4931E-01  7.040      0.4079E-01  7.380
  13 ESOL     22 M     Z      MZ       -0.4480      7.020      0.3554      7.960
  14 ESOL     32 M     X      MX       -0.1746      6.700      0.1715      7.040
  15 ESOL     32 M     Z      MZ       -0.3425      7.140      0.3934      7.880
  16 ESOL     48 F     Y      FY       -0.9568E-01  7.020      0.7710E-01  6.720
  17 ESOL     52 F     X      FX       -0.7279E-01  7.740      0.1043      6.480
  18 ESOL     52 M     Y      MY       -0.8521      6.480      0.5151      7.740
  19 ESOL     58 F     Z      FZ       -0.3281E-01  6.680      0.3375E-01  7.020
  20 ESOL     58 M     Z      MZ       -0.1114      6.160      0.9717E-01  7.720
  21 ESOL     71 F     X      FX       -0.1153      6.220      0.1471      6.460
  22 ESOL     86 F     X      FX       -0.7689E-01  6.580      0.9466E-01  6.940
  23 ESOL    107 M     X      MX       -0.4752E-01  6.480      0.2989E-01  7.740
  24 ESOL    114 F     X      FX       -0.4100E-01  6.460      0.3115E-01  7.400
  25 ESOL    114 F     Z      FZ       -0.4339E-01  6.480      0.2453E-01  7.740
  26 ESOL    117 F     X      FX       -0.9999E-02  6.940      0.7752E-02  6.560
  27 ESOL    123 M     Y      MY       -0.2615E-02  7.740      0.3136E-02  7.580
  28 ESOL    125 F     X      FX       -0.2062E-01  6.940      0.1563E-01  6.580
  29 ESOL    125 M     Y      MY       -0.2394E-01  6.940      0.1764E-01  6.580
  30 ESOL    139 F     X      FX       -0.5155E-01  6.580      0.5657E-01  6.940

          POST26 SUMMARY OF VARIABLE EXTREME VALUES
 VARI TYPE     IDENTIFIERS     NAME     MINIMUM     AT TIME     MAXIMUM     AT TIME

   2 ESOL      1 F     X      FX       -0.5383E-01  6.900      0.6540E-01  7.020
   3 ESOL      1 F     Y      FY       -0.1637E-01  7.340      0.1213E-01  6.400
   4 ESOL      1 M     X      MX       -0.6275E-01  7.340      0.5581E-01  7.000
   5 ESOL      1 M     Y      MY       -0.1341      7.660      0.1190      6.140
   6 ESOL      8 F     X      FX       -0.5068E-01  6.880      0.6250E-01  7.020
   7 ESOL      8 M     Z      MZ       -0.8035E-01  7.020      0.6018E-01  6.100
   8 ESOL     12 F     X      FX       -0.9127E-01  7.460      0.1037      7.020
   9 ESOL     12 F     Z      FZ       -0.3081E-01  7.000      0.3542E-01  7.340
  10 ESOL     12 M     X      MX       -0.3331      7.340      0.2822      7.000
  11 ESOL     12 M     Z      MZ       -0.4035      7.020      0.3430      7.960
  12 ESOL     22 F     Z      FZ       -0.4931E-01  7.040      0.4079E-01  7.380
  13 ESOL     22 M     Z      MZ       -0.4480      7.020      0.3554      7.960
  14 ESOL     32 M     X      MX       -0.1746      6.700      0.1715      7.040
  15 ESOL     32 M     Z      MZ       -0.3425      7.140      0.3934      7.880
  16 ESOL     48 F     Y      FY       -0.9568E-01  7.020      0.7710E-01  6.720
  17 ESOL     52 F     X      FX       -0.7279E-01  7.740      0.1043      6.480
  18 ESOL     52 M     Y      MY       -0.8521      6.480      0.5151      7.740
  19 ESOL     58 F     Z      FZ       -0.3281E-01  6.680      0.3375E-01  7.020
  20 ESOL     58 M     Z      MZ       -0.1114      6.160      0.9717E-01  7.720
  21 ESOL     71 F     X      FX       -0.1153      6.220      0.1471      6.460
  22 ESOL     86 F     X      FX       -0.7689E-01  6.580      0.9466E-01  6.940
  23 ESOL    107 M     X      MX       -0.4752E-01  6.480      0.2989E-01  7.740
  24 ESOL    114 F     X      FX       -0.4100E-01  6.460      0.3115E-01  7.400
  25 ESOL    114 F     Z      FZ       -0.4339E-01  6.480      0.2453E-01  7.740
  26 ESOL    117 F     X      FX       -0.9999E-02  6.940      0.7752E-02  6.560
  27 ESOL    123 M     Y      MY       -0.2615E-02  7.740      0.3136E-02  7.580
  28 ESOL    125 F     X      FX       -0.2062E-01  6.940      0.1563E-01  6.580
  29 ESOL    125 M     Y      MY       -0.2394E-01  6.940      0.1764E-01  6.580
  30 ESOL    139 F     X      FX       -0.5155E-01  6.580      0.5657E-01  6.940

 ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2tfx.db
  FOR POSSIBLE RESUME FROM THIS POINT

 ***** ROUTINE COMPLETED *****  CP =      18617.961


 *****  ANSYS SOLUTION ROUTINE  *****

 PERFORM AN EXPANSION PASS

 EXPAND   100 SOLUTIONS
  IN THE RANGE FROM  0.40000      TO  0.50000
  CALCULATE ELEMENT RESULTS AS WELL AS THE NODAL DOF SOLUTION

 PRINT BASI ITEMS WITH A FREQUENCY OF NONE
   FOR ALL APPLICABLE ENTITIES

 *****  ANSYS SOLVE    COMMAND  *****
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
 40416-2            VERSION=SUN4SPARC      06:37:06  OCT 11, 1995 CP=  18617.980
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 FOR SUPPORT CALL                    PHONE                        FAX

  Time-history analysis of coupled system (pressurizer spray line)

 * ,,2 /S VERSION FOR EDUCATIONAL PURPOSES ONLY**

                    S O L U T I O N   O P T I O N S

   PROBLEM DIMENSIONALITY. . . . . .3-D
   DEGREES OF FREEDOM. . . . . UX   UY   UZ   ROTX ROTY ROTZ
   ANALYSIS TYPE . . . . . .TRANSIENT
      SOLUTION METHOD. . . . . .REDUCED
      EXPANSION PASS . . . . . .ON

                    L O A D   S T E P   O P T I O N S

   LOAD STEP NUMBER. . . . . 1
   NUMBER OF SOLUTIONS TO BE EXPANDED. . . . . 100
      RANGE . . . . . 0.40000     TO  0.50000
   ELEMENT RESULTS CALCULATION . . . . . ON
   PRINT OUTPUT CONTROLS
      ITEM       FREQUENCY    COMPONENT
      BASI       NONE
   DATABASE OUTPUT CONTROLS
      ITEM       FREQUENCY    COMPONENT
      NSOL       LAST


    *** ELEMENT RESULT CALCULATION TIMES
  TYPE  NUMBER    ENAME       TOTAL CP  AVE CP

     1     120  PIPE16          0.553     0.005
     2      22  PIPE18          0.168     0.008
     3      10  COMBIN14        0.010     0.001
     4      12  COMBIN14        0.020     0.002
     5      11  COMBIN14        0.010     0.001
     6       3  COMBIN14        0.010     0.003
     7       3  COMBIN14        0.000     0.000
     8       3  COMBIN14        0.010     0.003
    30      31  MASS21          0.033     0.001
    71      12  BEAM4           0.069     0.006
    72       5  MASS21          0.000     0.000

    *** NODAL LOAD CALCULATION TIMES
  TYPE  NUMBER    ENAME       TOTAL CP  AVE CP

     1     120  PIPE16          0.070     0.001
     2      22  PIPE18          0.049     0.002
     3      10  COMBIN14        0.000     0.000
     4      12  COMBIN14        0.030     0.002
     5      11  COMBIN14        0.000     0.000
     6       3  COMBIN14        0.010     0.003
     7       3  COMBIN14        0.000     0.000
     8       3  COMBIN14        0.000     0.000
    30      31  MASS21          0.010     0.000
    71      12  BEAM4           0.000     0.000
    72       5  MASS21          0.000     0.000


 *** ANSYS BINARY FILE STATISTICS
 BUFFER SIZE USED=  4096
       33.078 MB WRITTEN ON RESULTS FILE: pb2tfx.rst

 ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2tfx.db
  FOR POSSIBLE RESUME FROM THIS POINT

 FINISH SOLUTION PROCESSING


 ***** ROUTINE COMPLETED *****  CP =      18831.691


1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
 40416-2            VERSION=SUN4SPARC      06:44:43  OCT 11, 1995 CP=  18831.711
 FOR SUPPORT CALL                    PHONE                        FAX

  Time-history analysis of coupled system (pressurizer spray line)

 **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


          ***** TIME-HISTORY POSTPROCESSOR (POST26) *****

 ALL POST26 SPECIFICATIONS ARE RESET TO INITIAL DEFAULTS

 MAXIMUM NUMBER OF VARIABLES= 30

 VARIABLE  2  IS AT ELEMENT       1  NODE=         1
    ITEM= F    COMP= X      NAME= FX

 VARIABLE  3  IS AT ELEMENT       1  NODE=         1
    ITEM= F    COMP= Y      NAME= FY

 VARIABLE  4  IS AT ELEMENT       1  NODE=         1
    ITEM= M    COMP= X      NAME= MX

 VARIABLE  5  IS AT ELEMENT       1  NODE=         1
    ITEM= M    COMP= Y      NAME= MY
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 VARIABLE  6  IS AT ELEMENT       8  NODE=        6
    ITEM= F    COMP= X      NAME= FX

 VARIABLE  7  IS AT ELEMENT       8  NODE=        6
    ITEM= M    COMP= Z      NAME= MZ

 VARIABLE  8  IS AT ELEMENT      12  NODE=       10
    ITEM= F    COMP= X      NAME= FX

 VARIABLE  9  IS AT ELEMENT      12  NODE=       10
    ITEM= F    COMP= Z      NAME= FZ

 VARIABLE 10  IS AT ELEMENT      12  NODE=       10
    ITEM= M    COMP= X      NAME= MX

 VARIABLE 11  IS AT ELEMENT      12  NODE=       10
    ITEM= M    COMP= Z      NAME= MZ

 VARIABLE 12  IS AT ELEMENT      22  NODE=       15
    ITEM= F    COMP= Z      NAME= FZ

 VARIABLE 13  IS AT ELEMENT      22  NODE=       15
    ITEM= M    COMP= Z      NAME= MZ

 VARIABLE 14  IS AT ELEMENT      32  NODE=       23
    ITEM= M    COMP= X      NAME= MX

 VARIABLE 15  IS AT ELEMENT      32  NODE=       23
    ITEM= M    COMP= Z      NAME= MZ

 VARIABLE 16  IS AT ELEMENT      48  NODE=       35
    ITEM= F    COMP= Y      NAME= FY

 VARIABLE 17  IS AT ELEMENT      52  NODE=       39
    ITEM= F    COMP= X      NAME= FX

 VARIABLE 18  IS AT ELEMENT      52  NODE=       39
    ITEM= M    COMP= Y      NAME= MY

 VARIABLE 19  IS AT ELEMENT      58  NODE=       45
    ITEM= F    COMP= Z      NAME= FZ

 VARIABLE 20  IS AT ELEMENT      58  NODE=       45
    ITEM= M    COMP= Z      NAME= MZ

 VARIABLE 21  IS AT ELEMENT      71  NODE=       56
    ITEM= F    COMP= X      NAME= FX

 VARIABLE 22  IS AT ELEMENT      86  NODE=       72
    ITEM= F    COMP= X      NAME= FX

 VARIABLE 23  IS AT ELEMENT     107  NODE=       93
    ITEM= M    COMP= X      NAME= MX

 VARIABLE 24  IS AT ELEMENT     114  NODE=      102
    ITEM= F    COMP= X      NAME= FX

 VARIABLE 25  IS AT ELEMENT     114  NODE=      102
    ITEM= F    COMP= Z      NAME= FZ

 VARIABLE 26  IS AT ELEMENT     117  NODE=      103
    ITEM= F    COMP= X      NAME= FX

 VARIABLE 27  IS AT ELEMENT     123  NODE=      112
    ITEM= M    COMP= Y      NAME= MY

 VARIABLE 28  IS AT ELEMENT     125  NODE=      101
    ITEM= F    COMP= X      NAME= FX

 VARIABLE 29  IS AT ELEMENT     125  NODE=      101
    ITEM= M    COMP= Y      NAME= MY

 VARIABLE 30  IS AT ELEMENT     139  NODE=       65
    ITEM= F    COMP= X      NAME= FX

 STORAGE COMPLETE FOR     99 DATA POINTS

         SUMMARY OF VARIABLES STORED THIS STEP AND EXTREME VALUES
VARI TYPE    IDENTIFIERS    NAME   MINIMUM     AT TIME    MAXIMUM    AT TIME

  2 ESOL     1 P    X     FX      -0.6009E-01  9.320     0.5124E-01  8.120
  3 ESOL     1 P    Y     FY      -0.1287E-01  9.960     0.1341E-01  9.620
  4 ESOL     1 M    X     MX      -0.5054E-01  9.940     0.4646E-01  9.580
  5 ESOL     1 M    Y     MY      -0.1173      9.080     0.1347      8.720
  6 ESOL     8 P    X     FX      -0.5725E-01  9.320     0.5237E-01  9.480
  7 ESOL     8 M    Z     MZ      -0.5981E-01  9.480     0.6662E-01  9.320
  8 ESOL    12 P    X     FX      -0.9183E-01  9.300     0.9027E-01  9.480
  9 ESOL    12 P    Z     FZ      -0.2482E-01  9.560     0.2570E-01  9.940
 10 ESOL    12 M    X     MX      -0.2418      9.240     0.2304      9.600
 11 ESOL    12 M    Z     MZ      -0.3622      9.480     0.3748      9.320
 12 ESOL    22 P    Z     FZ      -0.3568E-01  9.520     0.3304E-01  10.00
 13 ESOL    22 M    Z     MZ      -0.3490      9.480     0.3840      9.300
 14 ESOL    32 M    X     MX      -0.1288      9.920     0.1271      9.580
 15 ESOL    32 M    Z     MZ      -0.3855      9.060     0.4724      8.660
 16 ESOL    48 P    Y     FY      -0.6435E-01  9.540     0.7119E-01  9.260
 17 ESOL    52 P    X     FX      -0.8402E-01  8.740     0.8521E-01  8.220
 18 ESOL    52 M    Y     MY      -0.6734      8.220     0.7293      8.740
 19 ESOL    58 P    Z     FZ      -0.2768E-01  9.920     0.2636E-01  9.520
 20 ESOL    58 M    Z     MZ      -0.7883E-01  8.620     0.1089      9.080
 21 ESOL    71 P    X     FX      -0.1539      8.780     0.1382      9.960
 22 ESOL    86 P    X     FX      -0.9129E-01  9.640     0.1029      9.960
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 23 ESOL   107 M    X     MX      -0.3947E-01  8.220     0.4051E-01  8.740
 24 ESOL   114 P    X     FX      -0.4633E-01  9.960     0.4345E-01  8.780
 25 ESOL   114 P    Z     FZ      -0.3325E-01  8.220     0.3658E-01  8.740
 26 ESOL   117 P    X     FX      -0.8230E-02  8.500     0.9324E-02  8.960
 27 ESOL   123 M    Y     MY      -0.2796E-02  8.780     0.2356E-02  8.960
 28 ESOL   125 P    X     FX      -0.1968E-01  9.960     0.1823E-01  9.640
 29 ESOL   125 M    Y     MY      -0.2286E-01  9.960     0.2037E-01  9.640
 30 ESOL   139 P    X     FX      -0.5746E-01  9.640     0.6166E-01  9.960

         POST26 SUMMARY OF VARIABLE EXTREME VALUES
VARI TYPE    IDENTIFIERS    NAME   MINIMUM     AT TIME    MAXIMUM    AT TIME

  2 ESOL     1 P    X     FX      -0.6009E-01  9.320     0.5124E-01  8.120
  3 ESOL     1 P    Y     FY      -0.1287E-01  9.960     0.1341E-01  9.620
  4 ESOL     1 M    X     MX      -0.5054E-01  9.940     0.4646E-01  9.580
  5 ESOL     1 M    Y     MY      -0.1173      9.080     0.1347      8.720
  6 ESOL     8 P    X     FX      -0.5725E-01  9.320     0.5237E-01  9.480
  7 ESOL     8 M    Z     MZ      -0.5981E-01  9.480     0.6662E-01  9.320
  8 ESOL    12 P    X     FX      -0.9183E-01  9.300     0.9027E-01  9.480
  9 ESOL    12 P    Z     FZ      -0.2482E-01  9.560     0.2570E-01  9.940
 10 ESOL    12 M    X     MX      -0.2418      9.240     0.2304      9.600
 11 ESOL    12 M    Z     MZ      -0.3622      9.480     0.3748      9.320
 12 ESOL    22 P    Z     FZ      -0.3568E-01  9.520     0.3304E-01  10.00
 13 ESOL    22 M    Z     MZ      -0.3490      9.480     0.3840      9.300
 14 ESOL    32 M    X     MX      -0.1288      9.920     0.1271      9.580
 15 ESOL    32 M    Z     MZ      -0.3855      9.060     0.4724      8.660
 16 ESOL    48 P    Y     FY      -0.6435E-01  9.540     0.7119E-01  9.260
 17 ESOL    52 P    X     FX      -0.8402E-01  8.740     0.8521E-01  8.220
 18 ESOL    52 M    Y     MY      -0.6734      8.220     0.7293      8.740
 19 ESOL    58 P    Z     FZ      -0.2768E-01  9.920     0.2636E-01  9.520
 20 ESOL    58 M    Z     MZ      -0.7883E-01  8.620     0.1089      9.080
 21 ESOL    71 P    X     FX      -0.1539      8.780     0.1382      9.960
 22 ESOL    86 P    X     FX      -0.9129E-01  9.640     0.1029      9.960
 23 ESOL   107 M    X     MX      -0.3947E-01  8.220     0.4051E-01  8.740
 24 ESOL   114 P    X     FX      -0.4633E-01  9.960     0.4345E-01  8.780
 25 ESOL   114 P    Z     FZ      -0.3325E-01  8.220     0.3658E-01  8.740
 26 ESOL   117 P    X     FX      -0.8230E-02  8.500     0.9324E-02  8.960
 27 ESOL   123 M    Y     MY      -0.2796E-02  8.780     0.2356E-02  8.960
 28 ESOL   125 P    X     FX      -0.1988E-01  9.960     0.1823E-01  9.640
 29 ESOL   125 M    Y     MY      -0.2286E-01  9.960     0.2037E-01  9.640
 30 ESOL   139 P    X     FX      -0.5746E-01  9.640     0.6166E-01  9.960

 ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2tfx.db
  FOR POSSIBLE RESUME FROM THIS POINT


 ***** ROUTINE COMPLETED *****  CP =      18841.750


 *****  ANSYS SOLUTION ROUTINE  *****

 PERFORM AN EXPANSION PASS


 EXPAND   100 SOLUTIONS
  IN THE RANGE FROM  0.50000     TO  0.60000
  CALCULATE ELEMENT RESULTS AS WELL AS THE NODAL DOF SOLUTION

 PRINT BASI ITEMS WITH A FREQUENCY OF NONE
   FOR ALL APPLICABLE ENTITIES

 *****  ANSYS SOLVE    COMMAND  *****
1

 *****  ANSYS  -  ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2           VERSION=SUN4SPARC     06:45:09  OCT 11, 1995 CP=  18841.780
FOR SUPPORT CALL                    PHONE                      FAX

 Time-history analysis of coupled system (pressurizer spray line)

 **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**

                    S O L U T I O N   O P T I O N S

   PROBLEM DIMENSIONALITY. . . . . .3-D
   DEGREES OF FREEDOM. . . . . UX   UY   UZ   ROTX ROTY ROTZ
   ANALYSIS TYPE . . . . . .TRANSIENT
     SOLUTION METHOD. . . . . .REDUCED
     EXPANSION PASS . . . . . .ON

                  L O A D   S T E P   O P T I O N S

   LOAD STEP NUMBER. . . . . .  1
   NUMBER OF SOLUTIONS TO BE EXPANDED. . . . . 100
      RANGE. . . . . .0.50000     TO  0.60000
   ELEMENT RESULTS CALCULATION . . . . . ON
   PRINT OUTPUT CONTROLS
     ITEM      FREQUENCY   COMPONENT
     BASI      NONE
   DATABASE OUTPUT CONTROLS
     ITEM      FREQUENCY   COMPONENT
     NSOL      LAST


  *** ELEMENT RESULT CALCULATION TIMES
 TYPE  NUMBER   ENAME      TOTAL CP  AVE CP

    1     120  PIPE16        0.577    0.005
    2      22  PIPE18        0.189    0.009
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     3        10  COMBIN14        0.020     0.002
     4        12  COMBIN14        0.010     0.001
     5        11  COMBIN14        0.012     0.001
     6         3  COMBIN14        0.010     0.003
     7         3  COMBIN14        0.000     0.000
     8         3  COMBIN14        0.000     0.000
    30        31  MASS21          0.020     0.001
    71        12  BEAM4           0.059     0.005
    72         5  MASS21          0.000     0.000

  *** NODAL LOAD CALCULATION TIMES
 TYPE  NUMBER    ENAME       TOTAL CP  AVE CP

    1       120  PIPE16          0.092     0.001
    2        22  PIPE18          0.010     0.000
    3        10  COMBIN14        0.000     0.000
    4        12  COMBIN14        0.000     0.000
    5        11  COMBIN14        0.012     0.001
    6         3  COMBIN14        0.000     0.000
    7         3  COMBIN14        0.010     0.003
    8         3  COMBIN14        0 000     0.000
   30        31  MASS21          0.000     0.000
   71        12  BEAM4           0.010     0.001
   72         5  MASS21          0.010     0.002

*** ANSYS BINARY FILE STATISTICS
 BUFFER SIZE USED=  4096
      33.406 MB WRITTEN ON RESULTS FILE: pb2tfx.rst

ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2tfx.db
 FOR POSSIBLE RESUME FROM THIS POINT

FINISH SOLUTION PROCESSING


***** ROUTINE COMPLETED *****  CP =     19058.050


1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2            VERSION=SUN4SPARC      06:52:50  OCT 11, 1995 CP=  19058.070
 OR SUPPORT CALL                         PHONE                       FAX

 Time-history analysis of coupled system (presurizer spray line)

 **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


        ***** TIME-HISTORY POSTPROCESSOR (POST26) *****

ALL POST26 SPECIFICATIONS ARE RESET TO INITIAL DEFAULTS

MAXIMUM NUMBER OF VARIABLES= 30

VARIABLE  2  IS AT ELEMENT        1  NODE=         1
   ITEM= F     COMP= X      NAME= FX

VARIABLE  3  IS AT ELEMENT        1  NODE=         1
   ITEM= F     COMP= Y      NAME= FY

VARIABLE  4  IS AT ELEMENT        1  NODE=         1
   ITEM= M     COMP= X      NAME= MX

VARIABLE  5  IS AT ELEMENT        1  NODE=         1
   ITEM= M     COMP= Y      NAME= MY

VARIABLE  6  IS AT ELEMENT        8  NODE=         6
   ITEM= F     COMP= X      NAME= FX

VARIABLE  7  IS AT ELEMENT        8  NODE=         6
   ITEM= M     COMP= Z      NAME= MZ

VARIABLE  8  IS AT ELEMENT       12  NODE=        10
   ITEM= F     COMP= X      NAME= FX

VARIABLE  9  IS AT ELEMENT       12  NODE=        10
   ITEM= F     COMP= Z      NAME= FZ

VARIABLE 10  IS AT ELEMENT       12  NODE=        10
   ITEM= M     COMP= X      NAME= MX

VARIABLE 11  IS AT ELEMENT       12  NODE=        10
   ITEM= M     COMP= Z      NAME= MZ

VARIABLE 12  IS AT ELEMENT       22  NODE=        15
   ITEM= F     COMP= Z      NAME= FZ

VARIABLE 13  IS AT ELEMENT       22  NODE=        15
   ITEM= M     COMP= Z      NAME= MZ

VARIABLE 14  IS AT ELEMENT       32  NODE=        23
   ITEM= M     COMP= X      NAME= MX

VARIABLE 15  IS AT ELEMENT       32  NODE=        23
   ITEM= M     COMP= Z      NAME= MZ

VARIABLE 16  IS AT ELEMENT       48  NODE=        35
   ITEM= F     COMP= Y      NAME= FY
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VARIABLE 17  IS AT ELEMENT       52  NODE=        39
   ITEM= F     COMP= X      NAME= FX

VARIABLE 18  IS AT ELEMENT       52  NODE=        39
   ITEM= M     COMP= Y      NAME= MY

VARIABLE 19  IS AT ELEMENT       58  NODE=        45
   ITEM= F     COMP= Z      NAME= FZ

VARIABLE 20  IS AT ELEMENT       58  NODE=        45
   ITEM= M     COMP= Z      NAME= MZ

VARIABLE 21  IS AT ELEMENT       71  NODE=        56
   ITEM= F     COMP= X      NAME= FX

VARIABLE 22  IS AT ELEMENT       86  NODE=        72
   ITEM= F     COMP= X      NAME= FX

VARIABLE 23  IS AT ELEMENT      107  NODE=        93
   ITEM= M     COMP= X      NAME= MX

VARIABLE 24  IS AT ELEMENT      114  NODE=       102
   ITEM= F     COMP= X      NAME= FX

VARIABLE 25  IS AT ELEMENT      114  NODE=       102
   ITEM= F     COMP= Z      NAME= FZ

VARIABLE 26  IS AT ELEMENT      117  NODE=       103
   ITEM= F     COMP= X      NAME= FX

VARIABLE 27  IS AT ELEMENT      123  NODE=       112
   ITEM= M     COMP= Y      NAME= MY

VARIABLE 28  IS AT ELEMENT      125  NODE=       101
   ITEM= F     COMP= X      NAME= FX

VARIABLE 29  IS AT ELEMENT      125  NODE=       101
   ITEM= M     COMP= Y      NAME= MY

VARIABLE 30  IS AT ELEMENT      139  NODE=        65
   ITEM= F     COMP= X      NAME= FX

STORAGE COMPLETE FOR    100 DATA POINTS

       SUMMARY OF VARIABLES STORED THIS STEP AND EXTREME VALUES
VARI TYPE     IDENTIFIERS    NAME   MINIMUM     AT TIME     MAXIMUM   AT TIME

  2 ESOL     1 F    X     FX      -0.4110E-01  11.84     0.3864E-01  11.68
  3 ESOL     1 F    Y     FY      -0.1294E-01  11.36     0.9906E-02  11.00
  4 ESOL     1 M    X     MX      -0.5512E-01  10.62     0.4821E-01  10.32
  5 ESOL     1 M    Y     MY      -0.1072      11.02     0.1137      11.86
  6 ESOL     8 F    X     FX      -0.4031E-01  10.76     0.3750E-01  10.26
  7 ESOL     8 M    Z     MZ      -0.5085E-01  10.26     0.4979E-01  10.74
  8 ESOL    12 F    X     FX      -0.7772E-01  10.74     0.7459E-01  10.28
  9 ESOL    12 F    Z     FZ      -0.2899E-01  11.00     0.3084E-01  10.62
 10 ESOL    12 M    X     MX      -0.2696      10.64     0.2677      11.00
 11 ESOL    12 M    Z     MZ      -0.2701      10.60     0.2915      10.76
 12 ESOL    22 F    Z     FZ      -0.3776E-01  10.30     0.3416E-01  10.66
 13 ESOL    22 M    Z     MZ      -0.3000      10.28     0.3026      10.74
 14 ESOL    32 M    X     MX      -0.1601      10.66     0.1474      10.32
 15 ESOL    32 M    Z     MZ      -0.2273      11.00     0.2448      10.28
 16 ESOL    48 F    Y     FY      -0.8012E-01  10.98     0.6217E-01  10.70
 17 ESOL    52 F    X     FX      -0.7600E-01  12.02     0.6956E-01  11.50
 18 ESOL    52 M    Y     MY      -0.5210      11.50     0.5240      12.02
 19 ESOL    58 F    Z     FZ      -0.3059E-01  10.66     0.3224E-01  10.30
 20 ESOL    58 M    Z     MZ      -0.8282E-01  11.86     0.7532E-01  12.02
 21 ESOL    71 F    X     FX      -0.1804      11.34     0.1782      10.54
 22 ESOL    86 F    X     FX      -0.1276      11.34     0.1261      11.20
 23 ESOL   107 M    X     MX      -0.3617E-01  11.50     0.3484E-01  12.02
 24 ESOL   114 F    X     FX      -0.5739E-01  11.20     0.5998E-01  11.34
 25 ESOL   114 F    Z     FZ      -0.2749E-01  11.50     0.2710E-01  12.02
 26 ESOL   117 F    X     FX      -0.8820E-02  10.20     0.9953E-02  10.84
 27 ESOL   123 M    Y     MY      -0.2250E-02  11.00     0.1995E-02  10.54
 28 ESOL   125 F    X     FX      -0.2243E-01  10.54     0.2456E-01  10.08
 29 ESOL   125 M    Y     MY      -0.2472E-01  11.20     0.2838E-01  10.08
 30 ESOL   139 F    X     FX      -0.7088E-01  11.34     0.7488E-01  11.20

         POST26 SUMMARY OF VARIABLE EXTREME VALUES
VARI TYPE     IDENTIFIERS   NAME      MINIMUM     AT TIME    MAXIMUM    AT TIME

  2 ESOL     1 F    X    FX       -0.4110E-01  11.84     0.3864E-01  11.68
  3 ESOL     1 F    Y    FY       -0.1294E-01  11.36     0.9908E-02  11.00
  4 ESOL     1 M    X    MX       -0.5512E-01  10.62     0.4821E-01  10.32
  5 ESOL     1 M    Y    MY       -0.1072      11.02     0.1137      11.86
  6 ESOL     8 F    X    FX       -0.4031E-01  10.76     0.3750E-01  10.26
  7 ESOL     8 M    Z    MZ       -0.5085E-01  10.26     0.4979E-01  10.74
  8 ESOL    12 F    X    FX       -0.7772E-01  10.74     0.7459E-01  10.28
  9 ESOL    12 F    Z    FZ       -0.2899E-01  11.00     0.3084E-01  10.62
 10 ESOL    12 M    X    MX       -0.2696      10.64     0.2677      11.00
 11 ESOL    12 M    Z    MZ       -0.2701      10.60     0.2915      10.76
 12 ESOL    22 F    Z    FZ       -0.3776E-01  10.30     0.3416E-01  10.66
 13 ESOL    22 M    Z    MZ       -0.3000      10.28     0.3026      10.74
 14 ESOL    32 M    X    MX       -0.1601      10.66     0.1474      10.32
 15 ESOL    32 M    Z    MZ       -0.2273      11.00     0.2448      10.28
 16 ESOL    48 F    Y    FY       -0.8012E-01  10.98     0.6217E-01  10.70
 17 ESOL    52 F    X    FX       -0.7600E-01  12.02     0.6956E-01  11.50
 18 ESOL    52 M    Y    MY       -0.5210      11.50     0.5240      12.02
 19 ESOL    58 F    Z    FZ       -0.3059E-01  10.66     0.3224E-01  10.30
 20 ESOL    58 M    Z    MZ       -0.8282E-01  11.86     0.7532E-01  12.02
 21 ESOL    71 F    X    FX       -0.1804      11.34     0.1782      10.54
 22 ESOL    86 F    X    FX       -0.1276      11.34     0.1261      11.20
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 23 ESOL    107 M     X     MX        -0.3617E-01  11.50      0.3484E-01  12.02
 24 ESOL    114 F     X     FX        -0.5739E-01  11.20      0.5998E-01  11.34
 25 ESOL    114 F     Z     FZ        -0.2749E-01  11.50      0.2710E-01  12.02
 26 ESOL    117 F     X     FX        -0.8820E-02  10.20      0.9953E-02  10.64
 27 ESOL    123 M     Y     MY        -0.2250E-01  11.00      0.1995E-02  10.54
 28 ESOL    125 F     X     FX        -0.2243E-01  10.54      0.2456E-01  10.08
 29 ESOL    125 M     Y     MY        -0.2472E-01  11.20      0.2838E-01  10.08
 30 ESOL    139 F     X     FX        -0.7088E-01  11.34      0.7488E-01  11.20

ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2tfx.db
 FOR POSSIBLE RESUME FROM THIS POINT


***** ROUTINE COMPLETED *****  CP =      19067.420



*****  ANSYS SOLUTION ROUTINE  *****

PERFORM AN EXPANSION PASS


EXPAND   100 SOLUTIONS
 IN THE RANGE FROM  0.60000      TO  0.70000
 CALCULATE ELEMENT RESULTS AS WELL AS THE NODAL DOF SOLUTION

PRINT BASI ITEMS WITH A FREQUENCY OF NONE
  FOR ALL APPLICABLE ENTITIES

*****  ANSYS SOLVE    COMMAND  *****
1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC     06:55:16  OCT 11, 1995 CP=  19067.449
FOR SUPPORT CALL                  PHONE                      FAX

 Time-history analysis of coupled system (pressurizer spray line)

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**

                    S O L U T I O N   O P T I O N S

  PROBLEM DIMENSIONALITY. . . . . . . . . . . . . .3-D
  DEGREES OF FREEDOM. . . . . . UX   UY   UZ   ROTX ROTY ROTZ
  ANALYSIS TYPE . . . . . . . . . . . . . . . . . .TRANSIENT
     SOLUTION METHOD. . . . . . . . . . . . . . . .REDUCED
     EXPANSION PASS . . . . . . . . . . . . . . . .ON

                    L O A D   S T E P   O P T I O N S

  LOAD STEP NUMBER. . . . . . . . . . . . . . . .   1
  NUMBER OF SOLUTIONS TO BE EXPANDED. . . . . . .   100
     RANGE. . . . . . . . . . . . . . . . . . . . . 0.60000      TO  0.70000
  ELEMENT RESULTS CALCULATION . . . . . . . . . .   ON
  PRINT OUTPUT CONTROLS
     ITEM       FREQUENCY    COMPONENT
     BASI         NONE
  DATABASE OUTPUT CONTROLS
     ITEM       FREQUENCY    COMPONENT
     NSOL         LAST


   *** ELEMENT RESULT CALCULATION TIMES
 TYPE  NUMBER    ENAME       TOTAL CP  AVE CP

    1      120  PIPE16         0.580    0.005
    2       22  PIPE18         0.158    0.007
    3       10  COMBIN14       0.010    0.001
    4       12  COMBIN14       0.012    0.001
    5       11  COMBIN14       0.000    0.000
    6        3  COMBIN14       0.010    0.003
    7        3  COMBIN14       0.000    0.000
    8        3  COMBIN14       0.010    0.003
   30       31  MASS21         0.031    0.001
   71       12  BEAM4          0.059    0.005
   72        5  MASS21         0.000    0.000

   *** NODAL LOAD CALCULATION TIMES
 TYPE  NUMBER    ENAME       TOTAL CP  AVE CP

    1      120  PIPE16         0.080    0.001
    2       22  PIPE18         0.000    0.000
    3       10  COMBIN14       0.010    0.001
    4       12  COMBIN14       0.010    0.001
    5       11  COMBIN14       0.000    0.000
    6        3  COMBIN14       0.000    0.000
    7        3  COMBIN14       0.000    0.000
    8        3  COMBIN14       0.000    0.000
   30       31  MASS21         0.020    0.001
   71       12  BEAM4          0.012    0.001
   72        5  MASS21         0.010    0.002


*** ANSYS BINARY FILE STATISTICS
 BUFFER SIZE USED=  4096
      33.078 MB WRITTEN ON RESULTS FILE: pb2tfx.rst

ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2tfx.db
 FOR POSSIBLE RESUME FROM THIS POINT
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FINISH SOLUTION PROCESSING


***** ROUTINE COMPLETED *****  CP =      19281.181


1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC     07:00:52  OCT 11, 1995 CP=  19281.201
FOR SUPPORT CALL                  PHONE                      FAX

 Time-history analysis of coupled system (pressurizer spray line)

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**

        ***** TIME-HISTORY POSTPROCESSOR (POST26) *****

ALL POST26 SPECIFICATIONS ARE RESET TO INITIAL DEFAULTS

MAXIMUM NUMBER OF VARIABLES= 30

VARIABLE  2  IS AT ELEMENT       1  NODE=        1
   ITEM= F    COMP= X      NAME= FX

VARIABLE  3  IS AT ELEMENT       1  NODE=        1
   ITEM= F    COMP= Y      NAME= FY

VARIABLE  4  IS AT ELEMENT       1  NODE=        1
   ITEM= M    COMP= X      NAME= MX

VARIABLE  5  IS AT ELEMENT       1  NODE=        1
   ITEM= M    COMP= Y      NAME= MY

VARIABLE  6  IS AT ELEMENT       6  NODE=        6
   ITEM= F    COMP= X      NAME= FX

VARIABLE  7  IS AT ELEMENT       6  NODE=        6
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE  8  IS AT ELEMENT      12  NODE=       10
   ITEM= F    COMP= X      NAME= FX

VARIABLE  9  IS AT ELEMENT      12  NODE=       10
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 10  IS AT ELEMENT      12  NODE=       10
   ITEM= M    COMP= X      NAME= MX

VARIABLE 11  IS AT ELEMENT      12  NODE=       10
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE 12  IS AT ELEMENT      22  NODE=       15
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 13  IS AT ELEMENT      22  NODE=       15
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE 14  IS AT ELEMENT      32  NODE=       23
   ITEM= M    COMP= X      NAME= MX

VARIABLE 15  IS AT ELEMENT      32  NODE=       23
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE 16  IS AT ELEMENT      48  NODE=       35
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 17  IS AT ELEMENT      52  NODE=       39
   ITEM= F    COMP= X      NAME= FX

VARIABLE 18  IS AT ELEMENT      52  NODE=       39
   ITEM= M    COMP= Y      NAME= MY

VARIABLE 19  IS AT ELEMENT      58  NODE=       45
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 20  IS AT ELEMENT      58  NODE=       45
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE 21  IS AT ELEMENT      71  NODE=       56
   ITEM= F    COMP= X      NAME= FX

VARIABLE 22  IS AT ELEMENT      86  NODE=       72
   ITEM= F    COMP= X      NAME= FX

VARIABLE 23  IS AT ELEMENT     107  NODE=       93
   ITEM= M    COMP= X      NAME= MX

VARIABLE 24  IS AT ELEMENT     114  NODE=      102
   ITEM= F    COMP= X      NAME= FX

VARIABLE 25  IS AT ELEMENT     114  NODE=      102
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 26  IS AT ELEMENT     117  NODE=      103
   ITEM= F    COMP= X      NAME= FX

VARIABLE 27  IS AT ELEMENT     123  NODE=      113
   ITEM= M    COMP= Y      NAME= MY
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 VARIABLE 28  IS AT ELEMENT      125  NODE=       101
    ITEM= F    COMP= X      NAME= FX

 VARIABLE 29  IS AT ELEMENT      125  NODE=       101
    ITEM= M    COMP= Y      NAME= MY

 VARIABLE 30  IS AT ELEMENT      139  NODE=        65
    ITEM= F    COMP= X      NAME= FX

 STORAGE COMPLETE FOR     99 DATA POINTS

          SUMMARY OF VARIABLES STORED THIS STEP AND EXTREME VALUES
 VARI TYPE     IDENTIFIERS     NAME    MINIMUM     AT TIME     MAXIMUM    AT TIME

   2 ESOL      1 F     X      FX       -0.5311E-01  13.26     0.4416E-01  12.42
   3 ESOL      1 F     Y      FY       -0.1105E-01  12.04     0.8208E-02  12.20
   4 ESOL      1 M     X      MX       -0.2439E-01  12.04     0.1950E-01  12.32
   5 ESOL      1 M     Y      MY       -0.1353      13.58     0.1431      13.94
   6 ESOL      8 F     X      FX       -0.4701E-01  13.26     0.4237E-01  12.42
   7 ESOL      8 M     Z      MZ       -0.5048E-01  12.42     0.5361E-01  13.26
   8 ESOL     12 F     X      FX       -0.7763E-01  14.00     0.7405E-01  12.40
   9 ESOL     12 F     Z      FZ       -0.1303E-01  12.34     0.1378E-01  13.90
  10 ESOL     12 M     X      MX       -0.1524      13.92     0.1337      13.56
  11 ESOL     12 M     Z      MZ       -0.2952      12.40     0.3127      14.00
  12 ESOL     22 F     Z      FZ       -0.2039E-01  12.36     0.2039E-01  13.80
  13 ESOL     22 M     Z      MZ       -0.3033      12.40     0.3033      13.26
  14 ESOL     32 M     X      MX       -0.7401E-01  12.04     0.6244E-01  12.30
  15 ESOL     32 M     Z      MZ       -0.2763      13.48     0.3311      13.90
  16 ESOL     48 F     Y      FY       -0.4907E-01  12.38     0.4438E-01  12.58
  17 ESOL     52 F     X      FX       -0.7083E-01  12.04     0.7326E-01  13.62
  18 ESOL     52 M     Y      MY       -0.5617      13.62     0.4931      12.04
  19 ESOL     58 F     Z      FZ       -0.1441E-01  12.04     0.1505E-01  12.38
  20 ESOL     58 M     Z      MZ       -0.7354E-01  13.32     0.7292E-01  12.04
  21 ESOL     71 F     X      FX       -0.1069      13.18     0.8265E-01  12.96
  22 ESOL     86 F     X      FX       -0.6323E-01  13.18     0.5507E-01  13.06
  23 ESOL    107 M     X      MX       -0.3367E-01  13.62     0.3274E-01  12.04
  24 ESOL    114 F     X      FX       -0.2438E-01  12.96     0.3153E-01  13.18
  25 ESOL    114 F     Z      FZ       -0.2602E-01  13.62     0.2637E-01  12.04
  26 ESOL    117 F     X      FX       -0.6896E-02  12.04     0.7140E-02  12.92
  27 ESOL    123 M     Y      MY       -0.1753E-02  12.04     0.2003E-02  13.64
  28 ESOL    125 F     X      FX       -0.1200E-01  13.06     0.1179E-01  12.92
  29 ESOL    125 M     Y      MY       -0.1363E-01  13.06     0.1367E-01  12.92
  30 ESOL    139 F     X      FX       -0.3466E-01  13.18     0.3265E-01  13.06

          POST26 SUMMARY OF VARIABLE EXTREME VALUES
 VARI TYPE     IDENTIFIERS     NAME     MINIMUM     AT TIME     MAXIMUM    AT TIME

   2 ESOL      1 F     X      FX       -0.5311E-01  13.26     0.4416E-01  12.42
   3 ESOL      1 F     Y      FY       -0.1105E-01  12.04     0.8208E-02  12.20
   4 ESOL      1 M     X      MX       -0.2439E-01  12.04     0.1950E-01  12.32
   5 ESOL      1 M     Y      MY       -0.1353      13.58     0.1431      13.94
   6 ESOL      8 F     X      FX       -0.4701E-01  13.26     0.4237E-01  12.42
   7 ESOL      8 M     Z      MZ       -0.5048E-01  12.42     0.5361E-01  13.26
   8 ESOL     12 F     X      FX       -0.7763E-01  14.00     0.7405E-01  12.40
   9 ESOL     12 F     Z      FZ       -0.1303E-01  12.34     0.1378E-01  13.90
  10 ESOL     12 M     X      MX       -0.1524      13.92     0.1337      13.56
  11 ESOL     12 M     Z      MZ       -0.2952      12.40     0.3127      14.00
  12 ESOL     22 F     Z      FZ       -0.2039E-01  12.36     0.2039E-01  13.80
  13 ESOL     22 M     Z      MZ       -0.3033      12.40     0.3033      13.26
  14 ESOL     32 M     X      MX       -0.7401E-01  12.04     0.6244E-01  12.30
  15 ESOL     32 M     Z      MZ       -0.2763      13.48     0.3311      13.90
  16 ESOL     48 F     Y      FY       -0.4907E-01  12.38     0.4438E-01  12.58
  17 ESOL     52 F     X      FX       -0.7083E-01  12.04     0.7326E-01  13.62
  18 ESOL     52 M     Y      MY       -0.5617      13.62     0.4931      12.04
  19 ESOL     58 F     Z      FZ       -0.1441E-01  12.04     0.1505E-01  12.38
  20 ESOL     58 M     Z      MZ       -0.7354E-01  13.32     0.7292E-01  12.04
  21 ESOL     71 F     X      FX       -0.1069      13.18     0.8265E-01  12.96
  22 ESOL     86 F     X      FX       -0.6323E-01  13.18     0.5507E-01  13.06
  23 ESOL    107 M     X      MX       -0.3367E-01  13.62     0.3274E-01  12.04
  24 ESOL    114 F     X      FX       -0.2438E-01  12.96     0.3153E-01  13.18
  25 ESOL    114 F     Z      FZ       -0.2602E-01  13.62     0.2637E-01  12.04
  26 ESOL    117 F     X      FX       -0.6896E-02  12.04     0.7140E-02  12.92
  27 ESOL    123 M     Y      MY       -0.1753E-02  12.04     0.2003E-02  13.64
  28 ESOL    125 F     X      FX       -0.1200E-01  13.06     0.1179E-01  12.92
  29 ESOL    125 M     Y      MY       -0.1363E-01  13.06     0.1367E-01  12.92
  30 ESOL    139 F     X      FX       -0.3466E-01  13.18     0.3265E-01  13.06

 ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2tfx.db
  FOR POSSIBLE RESUME FROM THIS POINT

 ***** ROUTINE COMPLETED *****  CP =      19290.850


 *****  ANSYS SOLUTION ROUTINE  *****

 PERFORM AN EXPANSION PASS

 EXPAND   100 SOLUTIONS
  IN THE RANGE FROM  0.70000      TO  0.80000
  CALCULATE ELEMENT RESULTS AS WELL AS THE NODAL DOF SOLUTION

 PRINT BASI ITEMS WITH A FREQUENCY OF NONE
   FOR ALL APPLICABLE ENTITIES

 *****  ANSYS SOLVE    COMMAND  *****
1
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 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
 40416-2          VERSION=SUN4SPARC     07:01:19  OCT 11, 1995 CP=  19290.880
 FOR SUPPORT CALL                  PHONE                      FAX

  Time-history analysis of coupled system (pressurizer spray line)

 **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**

                    S O L U T I O N   O P T I O N S

   PROBLEM DIMENSIONALITY. . . . . .3-D
   DEGREES OF FREEDOM. . . . . UX   UY   UZ  ROTX ROTY ROTZ
   ANALYSIS TYPE . . . . . .TRANSIENT
      SOLUTION METHOD. . . . . .REDUCED
      EXPANSION PASS . . . . . .ON

                    L O A D   S T E P   O P T I O N S

   LOAD STEP NUMBER. . . . . .  1
   NUMBER OF SOLUTIONS TO BE EXPANDED. . . . . 100
      RANGE. . . . . 0.70000     TO  0.80000
   ELEMENT RESULTS CALCULATION . . . . . ON
   PRINT OUTPUT CONTROLS
      ITEM       FREQUENCY    COMPONENT
      BASI       NONE
   DATABASE OUTPUT CONTROLS
      ITEM       FREQUENCY    COMPONENT
      NSOL       LAST


    *** ELEMENT RESULT CALCULATION TIMES
  TYPE  NUMBER    ENAME       TOTAL CP   AVE CP

     1     120  PIPE16          0.612     0.005
     2      22  PIPE16          0.203     0.009
     3      10  COMBIN14        0.020     0.002
     4      12  COMBIN14        0.000     0.000
     5      11  COMBIN14        0.010     0.001
     6       3  COMBIN14        0.000     0.000
     7       3  COMBIN14        0.000     0.000
     8       3  COMBIN14        0.000     0.000
    30      31  MASS21          0.039     0.007
    71      12  BEAM4           0.049     0.004
    72       5  MASS21          0.000     0.000

    *** NODAL LOAD CALCULATION TIMES
  TYPE  NUMBER    ENAME       TOTAL CP   AVE CP

     1     120  PIPE16          0.068     0.001
     2      22  PIPE16          0.000     0.000
     3      10  COMBIN14        0.000     0.000
     4      12  COMBIN14        0.000     0.000
     5      11  COMBIN14        0.000     0.000
     6       3  COMBIN14        0.000     0.000
     7       3  COMBIN14        0.000     0.000
     8       3  COMBIN14        0.000     0.000
    30      31  MASS21          0.020     0.001
    71      12  BEAM4           0.000     0.000
    72       5  MASS21          0.000     0.000


 *** ANSYS BINARY FILE STATISTICS
 BUFFER SIZE USED=  4096
       33.078 MB WRITTEN ON RESULTS FILE: pb2tfx.rst

 ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2tfx.db
  FOR POSSIBLE RESUME FROM THIS POINT

 FINISH SOLUTION PROCESSING


 ***** ROUTINE COMPLETED *****  CP =      19503.981


1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
 40416-2          VERSION=SUN4SPARC     07:08:57  OCT 11, 1995 CP=  19504.011
 FOR SUPPORT CALL                  PHONE                      FAX

  Time-history analysis of coupled system (pressurizer spray line)

 **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**

          ***** TIME-HISTORY POSTPROCESSOR (POST26) *****

 ALL POST26 SPECIFICATIONS ARE RESET TO INITIAL DEFAULTS

 MAXIMUM NUMBER OF VARIABLES= 30

 VARIABLE  2  IS AT ELEMENT       1  NODE=         1
    ITEM= F    COMP= X      NAME= FX

 VARIABLE  3  IS AT ELEMENT       1  NODE=         1
    ITEM= F    COMP= Y      NAME= FY

 VARIABLE  4  IS AT ELEMENT       1  NODE=         1
    ITEM= M    COMP= X      NAME= MX

 VARIABLE  5  IS AT ELEMENT       1  NODE=         1
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   ITEM= M    COMP= Y      NAME= MY

VARIABLE  6  IS AT ELEMENT       8  NODE=        6
   ITEM= F    COMP= X      NAME= FX

VARIABLE  7  IS AT ELEMENT       8  NODE=        6
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE  8  IS AT ELEMENT      12  NODE=       10
   ITEM= F    COMP= X      NAME= FX

VARIABLE  9  IS AT ELEMENT      12  NODE=       10
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 10  IS AT ELEMENT      12  NODE=       10
   ITEM= M    COMP= X      NAME= MX

VARIABLE 11  IS AT ELEMENT      12  NODE=       10
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE 12  IS AT ELEMENT      22  NODE=       15
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 13  IS AT ELEMENT      22  NODE=       15
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE 14  IS AT ELEMENT      32  NODE=       23
   ITEM= M    COMP= X      NAME= MX

VARIABLE 15  IS AT ELEMENT      32  NODE=       23
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE 16  IS AT ELEMENT      48  NODE=       35
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 17  IS AT ELEMENT      52  NODE=       39
   ITEM= F    COMP= X      NAME= FX

VARIABLE 18  IS AT ELEMENT      52  NODE=       39
   ITEM= M    COMP= Y      NAME= MY

VARIABLE 19  IS AT ELEMENT      58  NODE=       45
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 20  IS AT ELEMENT      58  NODE=       45
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE 21  IS AT ELEMENT      71  NODE=       56
   ITEM= F    COMP= X      NAME= FX

VARIABLE 22  IS AT ELEMENT      86  NODE=       72
   ITEM= F    COMP= X      NAME= FX

VARIABLE 23  IS AT ELEMENT     107  NODE=       93
   ITEM= M    COMP= X      NAME= MX

VARIABLE 24  IS AT ELEMENT     114  NODE=      102
   ITEM= F    COMP= X      NAME= FX

VARIABLE 25  IS AT ELEMENT     114  NODE=      102
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 26  IS AT ELEMENT     117  NODE=      103
   ITEM= F    COMP= X      NAME= FX

VARIABLE 27  IS AT ELEMENT     123  NODE=      112
   ITEM= M    COMP= Y      NAME= MY

VARIABLE 28  IS AT ELEMENT     125  NODE=      101
   ITEM= F    COMP= X      NAME= FX

VARIABLE 29  IS AT ELEMENT     125  NODE=      101
   ITEM= M    COMP= Y      NAME= MY

VARIABLE 30  IS AT ELEMENT     139  NODE=       65
   ITEM= F    COMP= X      NAME= FX

 STORAGE COMPLETE FOR     99 DATA POINTS

        SUMMARY OF VARIABLES STORED THIS STEP AND EXTREME VALUES
VARI TYPE     IDENTIFIERS     NAME    MINIMUM     AT TIME     MAXIMUM     AT TIME

  2 ESOL     1 F    X      FX       -0.4575E-01  14.04      0.4266E-01  14.18
  3 ESOL     1 F    Y      FY       -0.8714E-02  14.44      0.1121E-01  14.80
  4 ESOL     1 M    X      MX       -0.3567E-01  14.44      0.3859E-01  14.80
  5 ESOL     1 M    Y      MY       -0.1211      14.30      0.9882E-01  14.42
  6 ESOL     8 F    X      FX       -0.4707E-01  14.04      0.4406E-01  14.18
  7 ESOL     8 M    Z      MZ       -0.5123E-01  14.18      0.5429E-01  15.14
  8 ESOL    12 F    X      FX       -0.8029E-01  14.04      0.7917E-01  14.18
  9 ESOL    12 F    Z      FZ       -0.2197E-01  14.82      0.2225E-01  14.44
 10 ESOL    12 M    X      MX       -0.2103      14.44      0.2036      14.80
 11 ESOL    12 M    Z      MZ       -0.3125      14.18      0.3422      14.04
 12 ESOL    22 F    Z      FZ       -0.3067E-01  14.16      0.2913E-01  15.14
 13 ESOL    22 M    Z      MZ       -0.3095      14.18      0.3203      15.14
 14 ESOL    32 M    X      MX       -0.1116      14.46      0.1218      14.80
 15 ESOL    32 M    Z      MZ       -0.2081      14.82      0.1997      15.26
 16 ESOL    48 F    Y      FY       -0.5303E-01  14.18      0.6712E-01  15.14
 17 ESOL    52 F    X      FX       -0.4788E-01  14.56      0.5819E-01  15.90
 18 ESOL    52 M    Y      MY       -0.4446      15.90      0.3431      14.58
 19 ESOL    58 F    Z      FZ       -0.2058E-01  15.16      0.2050E-01  14.80
 20 ESOL    58 M    Z      MZ       -0.5901E-01  15.58      0.5013E-01  15.72
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 21 ESOL    71 F    X      FX       -0.6695E-01  15.08      0.7728E-01  14.96
 22 ESOL    86 F    X      FX       -0.4981E-01  15.08      0.5223E-01  14.96
 23 ESOL   107 M    X      MX       -0.2414E-01  15.90      0.2024E-01  14.58
 24 ESOL   114 F    X      FX       -0.2281E-01  14.96      0.2163E-01  15.08
 25 ESOL   114 F    Z      FZ       -0.2069E-01  15.90      0.1792E-01  14.58
 26 ESOL   117 F    X      FX       -0.5804E-02  15.36      0.5286E-02  15.88
 27 ESOL   123 M    Y      MY       -0.1758E-02  15.40      0.1233E-02  15.26
 28 ESOL   125 F    X      FX       -0.1008E-01  14.96      0.9613E-02  15.08
 29 ESOL   125 M    Y      MY       -0.1117E-01  15.36      0.1099E-01  14.76
 30 ESOL   139 F    X      FX       -0.2785E-01  15.08      0.3073E-01  15.30

        POST26 SUMMARY OF VARIABLE EXTREME VALUES
VARI TYPE     IDENTIFIERS     NAME    MINIMUM     AT TIME     MAXIMUM     AT TIME

  2 ESOL     1 F    X      FX       -0.4575E-01  14.04      0.4266E-01  14.18
  3 ESOL     1 F    Y      FY       -0.8714E-02  14.44      0.1121E-01  14.80
  4 ESOL     1 M    X      MX       -0.3567E-01  14.44      0.3859E-01  14.80
  5 ESOL     1 M    Y      MY       -0.1211      14.30      0.9882E-01  14.42
  6 ESOL     8 F    X      FX       -0.4707E-01  14.04      0.4406E-01  14.18
  7 ESOL     8 M    Z      MZ       -0.5123E-01  14.18      0.5429E-01  15.14
  8 ESOL    12 F    X      FX       -0.8029E-01  14.04      0.7917E-01  14.18
  9 ESOL    12 F    Z      FZ       -0.2197E-01  14.82      0.2225E-01  14.44
 10 ESOL    12 M    X      MX       -0.2105      14.44      0.2036      14.80
 11 ESOL    12 M    Z      MZ       -0.3125      14.18      0.3422      14.04
 12 ESOL    22 F    Z      FZ       -0.3067E-01  14.16      0.2913E-01  15.14
 13 ESOL    22 M    Z      MZ       -0.3095      14.18      0.3203      15.14
 14 ESOL    32 M    X      MX       -0.1116      14.46      0.1218      14.80
 15 ESOL    32 M    Z      MZ       -0.2081      14.82      0.1997      15.26
 16 ESOL    48 F    Y      FY       -0.5303E-01  14.18      0.6712E-01  15.14
 17 ESOL    52 F    X      FX       -0.4788E-01  14.56      0.5819E-01  15.90
 18 ESOL    52 M    Y      MY       -0.4446      15.90      0.3431      14.58
 19 ESOL    58 F    Z      FZ       -0.2058E-01  15.16      0.2050E-01  14.80
 20 ESOL    58 M    Z      MZ       -0.5901E-01  15.58      0.5013E-01  15.72
 21 ESOL    71 F    X      FX       -0.6695E-01  15.08      0.7728E-01  14.96
 22 ESOL    86 F    X      FX       -0.4981E-01  15.08      0.5223E-01  14.96
 23 ESOL   107 M    X      MX       -0.2414E-01  15.90      0.2024E-01  14.58
 24 ESOL   114 F    X      FX       -0.2281E-01  14.96      0.2163E-01  15.08
 25 ESOL   114 F    Z      FZ       -0.2069E-01  15.90      0.1792E-01  14.58
 26 ESOL   117 F    X      FX       -0.5804E-02  15.36      0.5286E-02  15.88
 27 ESOL   123 M    Y      MY       -0.1758E-02  15.40      0.1233E-02  15.26
 28 ESOL   125 F    X      FX       -0.1008E-01  14.96      0.9613E-02  15.08
 29 ESOL   125 M    Y      MY       -0.1117E-01  15.36      0.1099E-01  14.76
 30 ESOL   139 F    X      FX       -0.2785E-01  15.08      0.3073E-01  15.30

 ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2tfx.db
  FOR POSSIBLE RESUME FROM THIS POINT


 ***** ROUTINE COMPLETED *****  CP =      19513.870


 *****  ANSYS SOLUTION ROUTINE  *****

 PERFORM AN EXPANSION PASS


 EXPAND   100 SOLUTIONS
  IN THE RANGE FROM  0.80000      TO  0.90000
  CALCULATE ELEMENT RESULTS AS WELL AS THE NODAL DOF SOLUTION

 PRINT BASI ITEMS WITH A FREQUENCY OF NONE
   FOR ALL APPLICABLE ENTITIES

 *****  ANSYS SOLVE    COMMAND  *****
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
 40416-2          VERSION=SUN4SPARC     07:09:23  OCT 11, 1995 CP=  19513.890
 FOR SUPPORT CALL                    PHONE                      FAX

  Time-history analysis of coupled system (pressurizer spray line)

 **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**

                    S O L U T I O N   O P T I O N S

   PROBLEM DIMENSIONALITY. . . . . .3-D
   DEGREES OF FREEDOM. . . . . UX   UY   UZ   ROTX ROTY ROTZ
   ANALYSIS TYPE . . . . . .TRANSIENT
      SOLUTION METHOD. . . . . .REDUCED
      EXPANSION PASS . . . . . .ON

                    L O A D   S T E P   O P T I O N S

   LOAD STEP NUMBER. . . . . 1
   NUMBER OF SOLUTIONS TO BE EXPANDED. . . . . 100
      RANGE. . . . . 0.80000     TO  0.90000
   ELEMENT RESULTS CALCULATION . . . . . ON
   PRINT OUTPUT CONTROLS
      ITEM      FREQUENCY    COMPONENT
      BASI      NONE
   DATABASE OUTPUT CONTROLS
      ITEM      FREQUENCY    COMPONENT
      NSOL      LAST


   *** ELEMENT RESULT CALCULATION TIMES
  TYPE  NUMBER   ENAME      TOTAL CP  AVE CP
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    1     120  PIPE16          0.651     0.005
    2      22  PIPE18          0.180     0.004
    3      10  COMBIN14        0.000     0.000
    4      12  COMBIN14        0.031     0.003
    5      11  COMBIN14        0.000     0.000
    6       3  COMBIN14        0.010     0.003
    7       3  COMBIN14        0.010     0.003
    8       3  COMBIN14        0.000     0.000
   30      31  MASS21          0.010     0.000
   71      12  BEAM4           0.061     0.005
   72       5  MASS21          0.000     0.000

  *** NODAL LOAD CALCULATION TIMES
 TYPE  NUMBER    ENAME       TOTAL CP  AVE CP

    1     120  PIPE16          0.020     0.000
    2      22  PIPE18          0.000     0.000
    3      10  COMBIN14        0.000     0.000
    4      12  COMBIN14        0.000     0.000
    5      11  COMBIN14        0.010     0.001
    6       3  COMBIN14        0.000     0.000
    7       3  COMBIN14        0.010     0.003
    8       3  COMBIN14        0.000     0.000
   30      31  MASS21          0.020     0.001
   71      12  BEAM4           0.000     0.000
   72       5  MASS21          0.000     0.000


*** ANSYS BINARY FILE STATISTICS
 BUFFER SIZE USED=  4096
      33.078 MB WRITTEN ON RESULTS FILE: pb2tfx.rst

ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2tfx.db
 FOR POSSIBLE RESUME FROM THIS POINT

FINISH SOLUTION PROCESSING


***** ROUTINE COMPLETED *****  CP =      19727.240


1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC      07:17:02  OCT 11, 1995 CP=  19727.260
FOR SUPPORT CALL                    PHONE                        FAX

 Time-history analysis of coupled system (pressurizer spray line)

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


         ***** TIME-HISTORY POSTPROCESSOR (POST26) *****

ALL POST26 SPECIFICATIONS ARE RESET TO INITIAL DEFAULTS

MAXIMUM NUMBER OF VARIABLES= 30

VARIABLE  2  IS AT ELEMENT       1  NODE=        1
   ITEM= F    COMP= X      NAME= FX

VARIABLE  3  IS AT ELEMENT       1  NODE=        1
   ITEM= F    COMP= Y      NAME= FY

VARIABLE  4  IS AT ELEMENT       1  NODE=        1
   ITEM= M    COMP= X      NAME= MX

VARIABLE  5  IS AT ELEMENT       1  NODE=        1
   ITEM= M    COMP= Y      NAME= MY

VARIABLE  6  IS AT ELEMENT       8  NODE=        6
   ITEM= F    COMP= X      NAME= FX

VARIABLE  7  IS AT ELEMENT       8  NODE=        6
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE  8  IS AT ELEMENT      12  NODE=       10
   ITEM= F    COMP= X      NAME= FX

VARIABLE  9  IS AT ELEMENT      12  NODE=       10
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 10  IS AT ELEMENT      12  NODE=       10
   ITEM= M    COMP= X      NAME= MX

VARIABLE 11  IS AT ELEMENT      12  NODE=       10
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE 12  IS AT ELEMENT      22  NODE=       15
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 13  IS AT ELEMENT      22  NODE=       15
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE 14  IS AT ELEMENT      32  NODE=       23
   ITEM= M    COMP= X      NAME= MX

VARIABLE 15  IS AT ELEMENT      32  NODE=       23
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE 16  IS AT ELEMENT      48  NODE=       15
```



```
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 17  IS AT ELEMENT      52  NODE=       39
   ITEM= F    COMP= X      NAME= FX

VARIABLE 18  IS AT ELEMENT      52  NODE=       39
   ITEM= M    COMP= Y      NAME= MY

VARIABLE 19  IS AT ELEMENT      58  NODE=       45
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 20  IS AT ELEMENT      58  NODE=       45
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE 21  IS AT ELEMENT      71  NODE=       56
   ITEM= F    COMP= X      NAME= FX

VARIABLE 22  IS AT ELEMENT      86  NODE=       72
   ITEM= F    COMP= X      NAME= FX

VARIABLE 23  IS AT ELEMENT     107  NODE=       93
   ITEM= M    COMP= X      NAME= MX

VARIABLE 24  IS AT ELEMENT     114  NODE=      102
   ITEM= F    COMP= X      NAME= FX

VARIABLE 25  IS AT ELEMENT     114  NODE=      102
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 26  IS AT ELEMENT     117  NODE=      103
   ITEM= F    COMP= X      NAME= FX

VARIABLE 27  IS AT ELEMENT     123  NODE=      112
   ITEM= M    COMP= Y      NAME= MY

VARIABLE 28  IS AT ELEMENT     125  NODE=      101
   ITEM= F    COMP= X      NAME= FX

VARIABLE 29  IS AT ELEMENT     125  NODE=      101
   ITEM= M    COMP= Y      NAME= MY

VARIABLE 30  IS AT ELEMENT     139  NODE=       65
   ITEM= F    COMP= X      NAME= FX

STORAGE COMPLETE FOR     99 DATA POINTS

        SUMMARY OF VARIABLES STORED THIS STEP AND EXTREME VALUES
VARI TYPE     IDENTIFIERS     NAME    MINIMUM     AT TIME     MAXIMUM     AT TIME

  2 ESOL     1 F    X      FX       -0.2423E-01  17.22      0.3272E-01  16.10
  3 ESOL     1 F    Y      FY       -0.4069E-02  16.40      0.8504E-02  17.96
  4 ESOL     1 M    X      MX       -0.1592E-01  17.60      0.2032E-01  17.94
  5 ESOL     1 M    Y      MY       -0.9049E-01  17.96      0.7177E-01  16.38
  6 ESOL     8 F    X      FX       -0.2495E-01  17.22      0.2988E-01  16.10
  7 ESOL     8 M    Z      MZ       -0.3278E-01  16.10      0.2671E-01  17.62
  8 ESOL    12 F    X      FX       -0.4477E-01  17.20      0.4569E-01  17.38
  9 ESOL    12 F    Z      FZ       -0.1260E-01  17.94      0.1066E-01  17.60
 10 ESOL    12 M    X      MX       -0.1019      17.60      0.1285      17.94
 11 ESOL    12 M    Z      MZ       -0.1884      16.10      0.1845      17.20
 12 ESOL    22 F    Z      FZ       -0.1469E-01  17.86      0.1358E-01  17.62
 13 ESOL    22 M    Z      MZ       -0.1884      16.10      0.1609      17.62
 14 ESOL    32 M    X      MX       -0.4580E-01  17.60      0.6895E-01  17.94
 15 ESOL    32 M    Z      MZ       -0.1654      16.72      0.1565      16.32
 16 ESOL    48 F    Y      FY       -0.2736E-01  16.10      0.3625E-01  17.62
 17 ESOL    52 F    X      FX       -0.4535E-01  16.38      0.5153E-01  17.96
 18 ESOL    52 M    Y      MY       -0.3902      17.96      0.3732      16.38
 19 ESOL    58 F    Z      FZ       -0.1036E-01  17.56      0.1202E-01  17.94
 20 ESOL    58 M    Z      MZ       -0.5695E-01  16.28      0.5359E-01  17.44
 21 ESOL    71 F    X      FX       -0.8414E-01  17.10      0.7040E-01  16.96
 22 ESOL    86 F    X      FX       -0.4724E-01  17.80      0.5697E-01  16.96
 23 ESOL   107 M    X      MX       -0.2361E-01  17.95      0.2070E-01  16.40
 24 ESOL   114 F    X      FX       -0.2417E-01  16.96      0.2380E-01  17.08
 25 ESOL   114 F    Z      FZ       -0.1951E-01  17.96      0.1854E-01  16.40
 26 ESOL   117 F    X      FX       -0.4056E-02  16.38      0.4388E-02  17.98
 27 ESOL   123 M    Y      MY       -0.1217E-02  16.42      0.1326E-02  17.94
 28 ESOL   125 F    X      FX       -0.1055E-01  16.96      0.8015E-02  16.84
 29 ESOL   125 M    Y      MY       -0.1183E-01  16.96      0.9236E-02  16.84
 30 ESOL   139 F    X      FX       -0.3008E-01  17.80      0.3375E-01  16.96

        POST26 SUMMARY OF VARIABLE EXTREME VALUES
VARI TYPE     IDENTIFIERS     NAME    MINIMUM     AT TIME     MAXIMUM     AT TIME

  2 ESOL     1 F    X      FX       -0.2423E-01  17.22      0.3272E-01  16.10
  3 ESOL     1 F    Y      FY       -0.4069E-02  16.40      0.8504E-02  17.96
  4 ESOL     1 M    X      MX       -0.1592E-01  17.60      0.2032E-01  17.94
  5 ESOL     1 M    Y      MY       -0.9049E-01  17.96      0.7177E-01  16.38
  6 ESOL     8 F    X      FX       -0.2495E-01  17.22      0.2988E-01  16.10
  7 ESOL     8 M    Z      MZ       -0.3278E-01  16.10      0.2671E-01  17.62
  8 ESOL    12 F    X      FX       -0.4477E-01  17.20      0.4569E-01  17.38
  9 ESOL    12 F    Z      FZ       -0.1260E-01  17.94      0.1066E-01  17.60
 10 ESOL    12 M    X      MX       -0.1019      17.60      0.1285      17.94
 11 ESOL    12 M    Z      MZ       -0.1884      16.10      0.1845      17.20
 12 ESOL    22 F    Z      FZ       -0.1469E-01  17.86      0.1358E-01  17.62
 13 ESOL    22 M    Z      MZ       -0.1884      16.10      0.1609      17.62
 14 ESOL    32 M    X      MX       -0.4580E-01  17.60      0.6895E-01  17.94
 15 ESOL    32 M    Z      MZ       -0.1654      16.72      0.1565      16.32
 16 ESOL    48 F    Y      FY       -0.2736E-01  16.10      0.3625E-01  17.62
 17 ESOL    52 F    X      FX       -0.4535E-01  16.38      0.5153E-01  17.96
 18 ESOL    52 M    Y      MY       -0.3902      17.96      0.3732      16.38
 19 ESOL    58 F    Z      FZ       -0.1036E-01  17.56      0.1202E-01  17.94
 20 ESOL    58 M    Z      MZ       -0.5695E-01  16.28      0.5359E-01  17.44
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 21 ESOL     71 F     X     FX        -0.8414E-01  17.10     0.7040E-01  16.96
 22 ESOL     86 F     X     FX        -0.4724E-01  17.80     0.5697E-01  16.96
 23 ESOL    107 M     X     MX        -0.2361E-01  17.96     0.2070E-01  16.40
 24 ESOL    114 F     X     FX        -0.2417E-01  16.96     0.2180E-01  17.08
 25 ESOL    114 F     Z     FZ        -0.1951E-01  17.96     0.1854E-01  16.40
 26 ESOL    117 F     X     FX        -0.4058E-02  16.38     0.4386E-02  17.96
 27 ESOL    123 M     Y     MY        -0.1217E-02  16.42     0.1326E-02  17.94
 28 ESOL    125 F     X     FX        -0.1055E-01  16.96     0.8015E-02  16.84
 29 ESOL    125 M     Y     MY        -0.1183E-01  16.96     0.9236E-02  16.84
 30 ESOL    139 F     X     FX        -0.3008E-01  17.80     0.3375E-01  16.96

ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2tfx.db
 FOR POSSIBLE RESUME FROM THIS POINT


***** ROUTINE COMPLETED *****  CP =      19737.041



*****  ANSYS SOLUTION ROUTINE  *****


PERFORM AN EXPANSION PASS


EXPAND   100 SOLUTIONS
 IN THE RANGE FROM  0.90000      TO   1.0000
 CALCULATE ELEMENT RESULTS AS WELL AS THE NODAL DOF SOLUTION

PRINT BASIC ITEMS WITH A FREQUENCY OF NONE
  FOR ALL APPLICABLE ENTITIES

*****  ANSYS SOLVE    COMMAND  *****
1

*****  ANSYS  -  ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC     07:17:26  OCT 11, 1995 CP=   19737.070
FOR SUPPORT CALL                    PHONE                    FAX

 Time-history analysis of coupled system (pressurizer spray line)

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**

                    S O L U T I O N   O P T I O N S

  PROBLEM DIMENSIONALITY. . . . . . . . . . . . . .3-D
  DEGREES OF FREEDOM. . . . . . UX   UY   UZ   ROTX ROTY ROTZ
  ANALYSIS TYPE . . . . . . . . . . . . . . . . . .TRANSIENT
     SOLUTION METHOD. . . . . . . . . . . . . . . .REDUCED
     EXPANSION PASS . . . . . . . . . . . . . . . .ON

                    L O A D   S T E P   O P T I O N S

  LOAD STEP NUMBER. . . . . . . . . . . . . . . .    1
  NUMBER OF SOLUTIONS TO BE EXPANDED. . . . . . .  100
     RANGE. . . . . . . . . . . . . . . . . . . . 0.90000      TO   1.0000
  ELEMENT RESULTS CALCULATION . . . . . . . . . .   ON
  PRINT OUTPUT CONTROLS
     ITEM       FREQUENCY    COMPONENT
     BASI       NONE
  DATABASE OUTPUT CONTROLS
     ITEM       FREQUENCY    COMPONENT
     NSOL       LAST


   *** ELEMENT RESULT CALCULATION TIMES
 TYPE  NUMBER    ENAME      TOTAL CP  AVE CP

    1      120  PIPE16        0.578    0.005
    2       22  PIPE18        0.172    0.008
    3       10  COMBIN14      0.020    0.002
    4       12  COMBIN14      0.039    0.003
    5       11  COMBIN14      0.000    0.000
    6        3  COMBIN14      0.000    0.000
    7        3  COMBIN14      0.000    0.000
    8        3  COMBIN14      0.000    0.000
   30       31  MASS21        0.021    0.001
   71       12  BEAM4         0.059    0.005
   72        5  MASS21        0.010    0.002

   *** NODAL LOAD CALCULATION TIMES
 TYPE  NUMBER    ENAME      TOTAL CP  AVE CP

    1      120  PIPE16        0.070    0.001
    2       22  PIPE18        0.020    0.001
    3       10  COMBIN14      0.000    0.000
    4       12  COMBIN14      0.012    0.001
    5       11  COMBIN14      0.010    0.001
    6        3  COMBIN14      0.000    0.000
    7        3  COMBIN14      0.010    0.003
    8        3  COMBIN14      0.000    0.000
   30       31  MASS21        0.000    0.000
   71       12  BEAM4         0.010    0.001
   72        5  MASS21        0.000    0.000


*** ANSYS BINARY FILE STATISTICS
 BUFFER SIZE USED=  4096
      33.406 MB WRITTEN ON RESULTS FILE: pb2tfx.rst

ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2tfx.db
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 FOR POSSIBLE RESUME FROM THIS POINT

FINISH SOLUTION PROCESSING


***** ROUTINE COMPLETED *****  CP =      19952.421


1

*****  ANSYS  -  ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
40416-2          VERSION=SUN4SPARC     07:25:09  OCT 11, 1995 CP=   19952.451
FOR SUPPORT CALL                    PHONE                    FAX

 Time-history analysis of coupled system (pressurizer spray line)

**ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


        ***** TIME-HISTORY POSTPROCESSOR (POST26) *****

ALL POST26 SPECIFICATIONS ARE RESET TO INITIAL DEFAULTS

MAXIMUM NUMBER OF VARIABLES= 30

VARIABLE  2  IS AT ELEMENT       1  NODE=        1
   ITEM= F    COMP= X      NAME= FX

VARIABLE  3  IS AT ELEMENT       1  NODE=        1
   ITEM= F    COMP= Y      NAME= FY

VARIABLE  4  IS AT ELEMENT       1  NODE=        1
   ITEM= M    COMP= X      NAME= MX

VARIABLE  5  IS AT ELEMENT       1  NODE=        1
   ITEM= M    COMP= Y      NAME= MY

VARIABLE  6  IS AT ELEMENT       8  NODE=        6
   ITEM= F    COMP= X      NAME= FX

VARIABLE  7  IS AT ELEMENT       8  NODE=        6
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE  8  IS AT ELEMENT      12  NODE=       10
   ITEM= F    COMP= X      NAME= FX

VARIABLE  9  IS AT ELEMENT      12  NODE=       10
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 10  IS AT ELEMENT      12  NODE=       10
   ITEM= M    COMP= X      NAME= MX

VARIABLE 11  IS AT ELEMENT      12  NODE=       10
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE 12  IS AT ELEMENT      22  NODE=       15
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 13  IS AT ELEMENT      22  NODE=       15
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE 14  IS AT ELEMENT      32  NODE=       23
   ITEM= M    COMP= X      NAME= MX

VARIABLE 15  IS AT ELEMENT      32  NODE=       23
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE 16  IS AT ELEMENT      48  NODE=       35
   ITEM= F    COMP= Y      NAME= FY

VARIABLE 17  IS AT ELEMENT      52  NODE=       39
   ITEM= F    COMP= X      NAME= FX

VARIABLE 18  IS AT ELEMENT      52  NODE=       39
   ITEM= M    COMP= Y      NAME= MY

VARIABLE 19  IS AT ELEMENT      58  NODE=       45
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 20  IS AT ELEMENT      58  NODE=       45
   ITEM= M    COMP= Z      NAME= MZ

VARIABLE 21  IS AT ELEMENT      71  NODE=       56
   ITEM= F    COMP= X      NAME= FX

VARIABLE 22  IS AT ELEMENT      86  NODE=       72
   ITEM= F    COMP= X      NAME= FX

VARIABLE 23  IS AT ELEMENT     107  NODE=       93
   ITEM= M    COMP= X      NAME= MX

VARIABLE 24  IS AT ELEMENT     114  NODE=      102
   ITEM= F    COMP= X      NAME= FX

VARIABLE 25  IS AT ELEMENT     114  NODE=      102
   ITEM= F    COMP= Z      NAME= FZ

VARIABLE 26  IS AT ELEMENT     117  NODE=      103
   ITEM= F    COMP= X      NAME= FX

VARIABLE 27  IS AT ELEMENT     123  NODE=      112
```

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   ITEM= M    COMP= Y      NAME= MY

VARIABLE 28  IS AT ELEMENT      125  NODE=       101
   ITEM= F    COMP= X      NAME= FX

VARIABLE 29  IS AT ELEMENT      125  NODE=       101
   ITEM= M    COMP= Y      NAME= MY

VARIABLE 30  IS AT ELEMENT      139  NODE=        65
   ITEM= F    COMP= X      NAME= FX

STORAGE COMPLETE FOR    100 DATA POINTS

        SUMMARY OF VARIABLES STORED THIS STEP AND EXTREME VALUES
VARI TYPE     IDENTIFIERS     NAME    MINIMUM     AT TIME     MAXIMUM    AT TIME

  2 ESOL      1 F     X      FX       -0.2670E-01  18.34     0.2424E-01  18.52
  3 ESOL      1 F     Y      FY       -0.6822E-02  18.80     0.7009E-02  19.16
  4 ESOL      1 M     X      MX       -0.2942E-01  19.52     0.3054E-01  19.86
  5 ESOL      1 M     Y      MY       -0.9323E-01  18.64     0.1186      18.30
  6 ESOL      8 F     X      FX       -0.2777E-01  18.34     0.2508E-01  18.52
  7 ESOL      8 M     Z      MZ       -0.3213E-01  18.52     0.3582E-01  18.34
  8 ESOL     12 F     X      FX       -0.5172E-01  18.36     0.4598E-01  18.54
  9 ESOL     12 F     Z      FZ       -0.1659E-01  19.18     0.1628E-01  18.84
 10 ESOL     12 M     X      MX       -0.1582      18.28     0.1459      19.16
 11 ESOL     12 M     Z      MZ       -0.1766      18.52     0.2008      18.36
 12 ESOL     22 F     Z      FZ       -0.2583E-01  18.54     0.2515E-01  18.88
 13 ESOL     22 M     Z      MZ       -0.1919      18.54     0.2169      18.34
 14 ESOL     32 M     X      MX       -0.8042E-01  19.54     0.9014E-01  19.18
 15 ESOL     32 M     Z      MZ       -0.1413      18.08     0.1929      18.24
 16 ESOL     48 F     Y      FY       -0.4698E-01  18.54     0.4372E-01  18.28
 17 ESOL     52 F     X      FX       -0.2769E-01  18.96     0.2472E-01  19.38
 18 ESOL     52 M     Y      MY       -0.1976      19.40     0.2123      18.94
 19 ESOL     58 F     Z      FZ       -0.1546E-01  19.54     0.1657E-01  19.88
 20 ESOL     58 M     Z      MZ       -0.4441E-01  18.26     0.4657E-01  18.10
 21 ESOL     71 F     X      FX       -0.6461E-01  19.76     0.4400E-01  18.58
 22 ESOL     86 F     X      FX       -0.4019E-01  19.76     0.2649E-01  18.12
 23 ESOL    107 M     X      MX       -0.1222E-01  18.62     0.1264E-01  18.96
 24 ESOL    114 F     X      FX       -0.1129E-01  18.58     0.1882E-01  19.76
 25 ESOL    114 F     Z      FZ       -0.1068E-01  18.62     0.1168E-01  18.94
 26 ESOL    117 F     X      FX       -0.3216E-02  18.12     0.3401E-02  19.36
 27 ESOL    123 M     Y      MY       -0.7751E-03  19.76     0.6522E-03  19.42
 28 ESOL    125 F     X      FX       -0.6439E-02  18.12     0.7305E-02  19.76
 29 ESOL    125 M     Y      MY       -0.7521E-02  18.12     0.8097E-02  19.76
 30 ESOL    139 F     X      FX       -0.2293E-01  19.76     0.1519E-01  18.12

          POST26 SUMMARY OF VARIABLE EXTREME VALUES
VARI TYPE     IDENTIFIERS     NAME     MINIMUM     AT TIME     MAXIMUM    AT TIME

  2 ESOL      1 F     X      FX       -0.2670E-01  18.34     0.2424E-01  18.52
  3 ESOL      1 F     Y      FY       -0.6822E-02  18.80     0.7009E-02  19.16
  4 ESOL      1 M     X      MX       -0.2942E-01  19.52     0.3054E-01  19.86
  5 ESOL      1 M     Y      MY       -0.9323E-01  18.64     0.1186      18.30
  6 ESOL      8 F     X      FX       -0.2777E-01  18.34     0.2508E-01  18.52
  7 ESOL      8 M     Z      MZ       -0.3213E-01  18.52     0.3582E-01  18.34
  8 ESOL     12 F     X      FX       -0.5172E-01  18.36     0.4598E-01  18.54
  9 ESOL     12 F     Z      FZ       -0.1659E-01  19.18     0.1628E-01  18.84
 10 ESOL     12 M     X      MX       -0.1582      18.28     0.1459      19.16
 11 ESOL     12 M     Z      MZ       -0.1766      18.52     0.2008      18.36
 12 ESOL     22 F     Z      FZ       -0.2583E-01  18.54     0.2515E-01  18.88
 13 ESOL     22 M     Z      MZ       -0.1919      18.54     0.2169      18.34
 14 ESOL     32 M     X      MX       -0.8042E-01  19.54     0.9014E-01  19.18
 15 ESOL     32 M     Z      MZ       -0.1413      18.08     0.1929      18.24
 16 ESOL     48 F     Y      FY       -0.4698E-01  18.54     0.4372E-01  18.28
 17 ESOL     52 F     X      FX       -0.2769E-01  18.96     0.2472E-01  19.38
 18 ESOL     52 M     Y      MY       -0.1976      19.40     0.2123      18.94
 19 ESOL     58 F     Z      FZ       -0.1546E-01  19.54     0.1657E-01  19.88
 20 ESOL     58 M     Z      MZ       -0.4441E-01  18.26     0.4657E-01  18.10
 21 ESOL     71 F     X      FX       -0.6461E-01  19.76     0.4400E-01  18.58
 22 ESOL     86 F     X      FX       -0.4019E-01  19.76     0.2649E-01  18.12
 23 ESOL    107 M     X      MX       -0.1222E-01  18.62     0.1264E-01  18.96
 24 ESOL    114 F     X      FX       -0.1129E-01  18.58     0.1882E-01  19.76
 25 ESOL    114 F     Z      FZ       -0.1068E-01  18.62     0.1168E-01  18.94
 26 ESOL    117 F     X      FX       -0.3216E-02  18.12     0.3401E-02  19.36
 27 ESOL    123 M     Y      MY       -0.7751E-03  19.76     0.6522E-03  19.42
 28 ESOL    125 F     X      FX       -0.6439E-02  18.12     0.7305E-02  19.76
 29 ESOL    125 M     Y      MY       -0.7521E-02  18.12     0.8097E-02  19.76
 30 ESOL    139 F     X      FX       -0.2293E-01  19.76     0.1519E-01  18.12

ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2tfx.db
 FOR POSSIBLE RESUME FROM THIS POINT


***** ROUTINE COMPLETED *****  CP =     19962.120



***** END OF INPUT ENCOUNTERED *****

PURGE ALL SOLUTION AND POST DATA
SAVE ALL MODEL DATA

ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= pb2tfx.db
 FOR POSSIBLE RESUME FROM THIS POINT


NUMBER OF WARNING MESSAGES ENCOUNTERED=          11
NUMBER OF ERROR   MESSAGES ENCOUNTERED=           0
```

```
IDEN JB=2222 CD=0 GR=-Y IU=1 OU=1
TITL BL=0 GC=0 GL=2 SU=1 CV=1
FREQ TR=0 LO=1 RP=0 FR=28.18 MP=33 MX=31
RCAS CA=1 EV=1 FR=1 TY=1 SU=2 LO=0 FX=1 FY=1 FZ=1
RSEC CA=2 EV=1 FR=1 SU=1 FX=1 FY=1 FZ=1
CCAS CA=3 ME=2 C1=1 C2=2
PLOT PL=1 PO=2 RE=1 UL=25.0 VL=15.0 AX=135.0 AY=90.0 AZ=45.00
SPEC EV=1 FP=0 ME=3 RP=1
     LV=1 DX=0.002 DY=0 DZ=0.002
     DI=X
          1.31/0.1145     1.587/0.1380     2.801/0.2019     3.430/0.2028
          3.601/0.2030     3.982/0.2036     4.259/0.2041     5.690/0.2072
          7.468/0.2133     8.072/0.2145     8.316/0.2101    10.630/0.1821
         13.170/0.1606    13.440/0.1518    14.790/0.1290    16.040/0.1179
         16.590/0.1142    17.940/0.1058    18.250/0.1040    19.640/0.0966
         20.890/0.0939    22.170/0.0931    23.060/0.0926    23.490/0.0924
         23.630/0.0923    24.180/0.0921    25.000/0.0918
     DI=Y
          1.31/0.0776     1.587/0.0937     2.801/0.1303     3.430/0.1304
          3.601/0.1304     3.982/0.1305     4.259/0.1306     5.690/0.1310
          7.468/0.1317     8.072/0.1312     8.316/0.1286    10.630/0.1050
         13.170/0.0828    13.440/0.0809    14.790/0.0726    16.040/0.0662
         16.590/0.0636    17.940/0.0579    18.250/0.0566    19.640/0.0515
         20.890/0.0500    22.170/0.0500    23.060/0.0500    23.490/0.0500
         23.630/0.0500    24.180/0.0500    25.000/0.0500
     DI=Z
          1.31/0.1144     1.587/0.1379     2.801/0.2016     3.430/0.2023
          3.601/0.2025     3.982/0.2030     4.259/0.2034     5.690/0.2063
          7.468/0.2135     8.072/0.2166     8.316/0.2132    10.630/0.1965
         13.170/0.1329    13.440/0.1303    14.790/0.1196    16.040/0.1113
         16.590/0.1080    17.940/0.1007    18.250/0.0991    19.640/0.0922
         20.890/0.0901    22.170/0.0897    23.060/0.0894    23.490/0.0894
         23.630/0.0893    24.180/0.0893    25.000/0.0894
     LV=2 DX=0.005 DY=0 DZ=0.006
     DI=X
          1.31/0.1148     1.587/0.1386     2.801/0.2045     3.430/0.2065
          3.601/0.2070     3.982/0.2085     4.259/0.2096     5.690/0.2172
          7.468/0.2332     8.072/0.2398     8.316/0.2372    10.630/0.2631
         13.170/0.2900    13.440/0.2617    14.790/0.1916    16.040/0.1660
         16.590/0.1591    17.940/0.1456    18.250/0.1431    19.640/0.1352
         20.890/0.1283    22.170/0.1251    23.060/0.1234    23.490/0.1227
         23.630/0.1225    24.180/0.1217    25.000/0.1206
     DI=Y
          1.31/0.000      1.587/0.0000     2.801/0.0000     3.430/0.0000
     DI=Z
          1.31/0.1148     1.587/0.1387     2.801/0.2048     3.430/0.2069
          3.601/0.2076     3.982/0.2092     4.259/0.2105     5.690/0.2200
          7.468/0.2480     8.072/0.2670     8.316/0.2718    10.630/0.4301
         13.170/0.1686    13.440/0.1628    14.790/0.1632    16.040/0.1513
         16.590/0.1471    17.940/0.1382    18.250/0.1364    19.640/0.1287
         20.890/0.1252    22.170/0.1233    23.060/0.1222    23.490/0.1218
         23.630/0.1217    24.180/0.1213    25.000/0.1212
     LV=3 DX=0.000 DY=0 DZ=0.000
     DI=X
          1.31/0.000      1.587/0.0000     2.801/0.0000     3.430/0.0000
     DI=Y
          1.31/0.0776     1.587/0.0938     2.801/0.1307     3.430/0.1310
          3.601/0.1311     3.982/0.1313     4.259/0.1315     5.690/0.1325
          7.468/0.1342     8.072/0.1340     8.316/0.1316    10.630/0.1085
         13.170/0.0862    13.440/0.0844    14.790/0.0759    16.040/0.0691
         16.590/0.0663    17.940/0.0599    18.250/0.0585    19.640/0.0522
         20.890/0.0501    22.170/0.0500    23.060/0.0500    23.490/0.0500
         23.630/0.0500    24.180/0.0500    25.000/0.0500
     DI=Z
          1.31/0.000      1.587/0.0000     2.801/0.0000     3.430/0.0000
     LV=4 DX=0.008 DY=0 DZ=0.000
     DI=X
          1.31/0.1151     1.587/0.1392     2.801/0.2070     3.430/0.2101
          3.601/0.2110     3.982/0.2133     4.259/0.2151     5.690/0.2275
          7.468/0.2555     8.072/0.2690     8.316/0.2691    10.630/0.3748
         13.170/0.4663    13.440/0.4147    14.790/0.2833    16.040/0.2359
         16.590/0.2234    17.940/0.2015    18.250/0.1977    19.640/0.1840
         20.890/0.1758    22.170/0.1697    23.060/0.1664    23.490/0.1650
         23.630/0.1645    24.180/0.1629    25.000/0.1609
     DI=Y
          1.31/0.000      1.587/0.0000     2.801/0.0000     3.430/0.0000
     DI=Z
          1.31/0.000      1.587/0.0000     2.801/0.0000     3.430/0.0000
     LV=5 DX=0.000 DY=0 DZ=0.022
     DI=X
          1.31/0.000      1.587/0.0000     2.801/0.0000     3.430/0.0000
     DI=Y
          1.31/0.000      1.587/0.0000     2.801/0.0000     3.430/0.0000
     DI=Z
          1.31/0.1162     1.587/0.1411     2.801/0.2153     3.430/0.2225
          3.601/0.2248     3.982/0.2307     4.259/0.2356     5.690/0.2751
          7.468/0.4052     8.072/0.3924     8.316/0.5492    10.630/1.4409
         13.170/0.5027    13.440/0.4783    14.790/0.3994    16.040/0.3595
         16.590/0.3471    17.940/0.3244    18.250/0.3204    19.640/0.3056
         20.890/0.2950    22.170/0.2867    23.060/0.2820    23.490/0.2800
         23.630/0.2794    24.180/0.2770    25.000/0.2739
     LV=6 DX=0.017 DY=0 DZ=0.029
     DI=X
          1.31/0.1160     1.587/0.1407     2.801/0.2132     3.430/0.2191
          3.601/0.2209     3.982/0.2255     4.259/0.2291     5.690/0.2555
          7.468/0.3198     8.072/0.3547     8.316/0.3642    10.630/0.7080
         13.170/0.9765    13.440/0.8628    14.790/0.5631    16.040/0.4519
         16.590/0.4219    17.940/0.3731    18.250/0.3651    19.640/0.3375
         20.890/0.3185    22.170/0.3043    23.060/0.2965    23.490/0.2932
         23.630/0.2922    24.180/0.2885    25.000/0.2835
     DI=Y
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          1.31/0.0777     1.587/0.0940     2.801/0.1313     3.430/0.1319
          3.601/0.1320     3.982/0.1324     4.259/0.1328     5.690/0.1347
          7.468/0.1379     8.072/0.1365     8.316/0.1360    10.630/0.1137
         13.170/0.0915    13.440/0.0896    14.790/0.0808    16.040/0.0735
         16.590/0.0705    17.940/0.0631    18.250/0.0614    19.640/0.0535
         20.890/0.0502    22.170/0.0500    23.060/0.0500    23.490/0.0500
         23.630/0.0500    24.180/0.0500    25.000/0.0501
     DI=Z
          1.31/0.1168     1.587/0.1421     2.801/0.2176     3.430/0.2292
          3.601/0.2323     3.982/0.2401     4.259/0.2468     5.690/0.3010
          7.468/0.4788     8.072/0.6104     8.316/0.6755    10.630/1.6745
         13.170/0.6462    13.440/0.6137    14.790/0.5082    16.040/0.4553
         16.590/0.4389    17.940/0.4093    18.250/0.4040    19.640/0.3653
         20.890/0.3711    22.170/0.3601    23.060/0.3538    23.490/0.3512
         23.630/0.3503    24.180/0.3472    25.000/0.3431
     LV=7 DX=0.009 DY=0 DZ=0.014
     DI=X
          1.31/0.1153     1.587/0.1394     2.801/0.2080     3.430/0.2115
          3.601/0.2126     3.982/0.2152     4.259/0.2173     5.690/0.2318
          7.468/0.2652     8.072/0.2819     8.316/0.2834    10.630/0.4264
         13.170/0.5467    13.440/0.4850    14.790/0.3264    16.040/0.2689
         16.590/0.2537    17.940/0.2278    18.250/0.2233    19.640/0.2077
         20.890/0.1978    22.170/0.1905    23.060/0.1864    23.490/0.1847
         23.630/0.1842    24.180/0.1823    25.000/0.1797
     DI=Y
          1.31/0.0777     1.587/0.0939     2.801/0.1309     3.430/0.1313
          3.601/0.1315     3.982/0.1318     4.259/0.1320     5.690/0.1334
          7.468/0.1357     8.072/0.1357     8.316/0.1333    10.630/0.1106
         13.170/0.0883    13.440/0.0864    14.790/0.0778    16.040/0.0706
         16.590/0.0679    17.940/0.0611    18.250/0.0596    19.640/0.0527
         20.890/0.0501    22.170/0.0500    23.060/0.0500    23.490/0.0500
         23.630/0.0500    24.180/0.0500    25.000/0.0500
     DI=Z
          1.31/0.1155     1.587/0.1399     2.801/0.2098     3.430/0.2143
          3.601/0.2157     3.982/0.2192     4.259/0.2221     5.690/0.2448
          7.468/0.3178     8.072/0.3723     8.316/0.3564    10.630/0.9024
         13.170/0.5288    13.440/0.5144    14.790/0.2681    16.040/0.2440
         16.590/0.2363    17.940/0.2218    18.250/0.2191    19.640/0.2087
         20.890/0.2023    22.170/0.1974    23.060/0.1946    23.490/0.1934
         23.630/0.1931    24.180/0.1917    25.000/0.1901
MATL CD=3  EC=28.3 GC=71.8 XM=75.0 YC=18.6 YM=18.6
CROS TY=0 OD=2.875 WT=0.375 MA=14.383 SO=1.0
COOR PT=1 AX=0.0 AY=574.0 AZ=0.0
ANCH PT=1 LO=0 FL=0 LV=1
TANG PT=2 DX=0.884 DY=0.00 DZ=-0.884
* ELBOW # 1
BRAD PT=3 RA=1.667
TANG PT=4 DX=2.90625 DY=0.0 DZ=0.0
TANG PT=5 DX=1.427
* ELBOW # 2
BRAD PT=6 RA=0.3125 SD=3
TANG PT=7 DY=0.5
TANG PT=9 DY=9.198
* SNUBBER PSH3
LUMP PT=9 MA=0.025
SNUB PT=9 FR=1 LO=0 DX=1 SP=77.0 LV=2
TANG PT=10 DY=0.531
* SNUBBER PSH2
LUMP PT=10 MA=0.025
SNUB PT=10 FR=1 LO=0 DZ=1 SP=77.0 LV=2
TANG PT=11 DY=7.813
TANG PT=12 DY=1.208
* ELBOW # 3
BRAD PT=13 RA=0.3125 SD=3
TANG PT=14 DX=0.542
* SPRING PSH5
LUMP PT=14 MA=0.004
RSTN PT=14 FR=1 LO=0 DY=1 SP=0.056 LV=3
TANG PT=15 DX=0.5
* SNUBBER PSH4
LUMP PT=15 MA=0.025
SNUB PT=15 FR=1 LO=0 DY=1 SP=77.0 LV=3
TANG PT=16 DX=1.292
* ELBOW # 4
BRAD PT=17 RA=0.3125
TANG PT=18 DX=0.500 DZ=0.500
TANG PT=19 DX=0.576 DZ=0.576
TANG PT=20 DX=1.750 DZ=1.750
* ELBOW # 5
BRAD PT=21 RA=0.3125
TANG PT=22 DY=10.333
TANG PT=23 DY=0.708
* SNUBBER PSH6
LUMP PT=23 MA=0.025
SNUB PT=23 FR=1 LO=0 DX=1 SP=77.0 LV=4
TANG PT=24 DY=1.364
TANG PT=25 DY=8.344
TANG PT=26 DY=0.7917
TANG PT=27 DY=8.854
TANG PT=28 DY=1.104
* SNUBBER PSH12
LUMP PT=28 MA=0.025
SNUB PT=28 FR=1 LO=0 DZ=1 SP=77.0 LV=5
TANG PT=29 DY=1.6667
TANG PT=30 DY=9.3333
TANG PT=31 DY=0.2128
* ELBOW # 6-1
BRAD PT=32 RA=0.3125
TANG PT=33 DY=0.0915 DZ=0.0915
TANG PT=34 DY=0.0915 DZ=0.0915
* ELBOW # 6-2
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BRAD PT=35 RA=0.3125
TANG PT=36 DZ=0.130
TANG PT=37 DZ=0.703
* SNUBBER PSH15
LUMP PT=37 MA=0.043
SNUB PT=37 FR=1 LO=0 DY=1 SP=212.0 LV=6
TANG PT=38 DZ=8.09375
TANG PT=39 DZ=0.8646
* SNUBBER PSH17
LUMP PT=39 MA=0.040
SNUB PT=39 FR=1 LO=0 DX=1 SP=212.0 LV=6
TANG PT=40 DZ=5.6771
TANG PT=41 DZ=2.4531
TANG PT=42 DZ=0.3125
* ELBOW # 7
BRAD PT=43 RA=0.3125
TANG PT=44 DX=0.4325
* SNUBBER PSH20
LUMP PT=44 MA=0.025
SNUB PT=44 FR=1 LO=0 DY=1 SP=77.0 LV=6
TANG PT=45 DX=0.31775
* SNUBBER PSH21
LUMP PT=45 MA=0.025
SNUB PT=45 FR=1 LO=0 DZ=1 SP=77.0 LV=6
TANG PT=46 DX=4.7552
* JUNCTION FOR 2.5 in Looop
TANG PT=47 DX=0.25
TANG PT=48 DX=0.25
* VALVE RC-48
CROS TY=0 OD=2.875 WT=0.375 MA=15.504 SO=1.0 KL=1
TANG PT=49 DX=0.4167
LUMP PT=49 MA=0.075
TANG PT=50 DX=0.4167
CROS TY=0 OD=2.875 WT=0.375 MA=14.383 SO=1.0
TANG PT=51 DX=0.125
TANG PT=52 DX=0.458
* SNUBBER PSH27
LUMP PT=52 MA=0.025
SNUB PT=52 FR=1 LO=0 DY=1 SP=77.0 LV=6
TANG PT=53 DX=2.021
* SPRING PSH22
LUMP PT=53 MA=0.005
RSTN PT=53 FR=1 LO=0 DY=1 SP=0.126 LV=6
TANG PT=54 DX=2.979
* SNUBBER PSH28
LUMP PT=54 MA=0.025
SNUB PT=54 FR=1 LO=0 DZ=1 SP=77.0 LV=6
TANG PT=55 DX=0.375
* ELBOW # 8
BRAD PT=56 RA=0.3125
TANG PT=57 DZ=0.5
* SNUBBER PSH31
LUMP PT=57 MA=0.025
SNUB PT=57 FR=1 LO=0 DX=1 SP=77.0 LV=6
TANG PT=58 DZ=0.16667
TANG PT=59 DZ=0.25
TANG PT=60 DZ=0.25
TANG PT=61 DZ=0.2500
* SPRING PSH35
LUMP PT=61 MA=0.006
RSTN PT=61 FR=1 LO=0 DY=1 SP=0.224 LV=6
TANG PT=62 DZ=0.3333
*ELBOW # 9
BRAD PT=63 RA=0.3125
TANG PT=64 DX=-1.229
CROS TY=0 OD=2.875 WT=0.375 MA=15.504 SO=1.0 KL=1
TANG PT=65 DX=-0.417
* VALVE RC2
LUMP PT=65 MA=0.105
TANG PT=66 DX=-0.417
*LUMP PT=66 MA=0.052
CROS TY=0 OD=2.875 WT=0.375 MA=14.383 SO=1.0
TANG PT=67 DX=-0.3542
* JUNCTION OF 0.5in. ENDS AT 68
TANG PT=68 DX=-0.25
TANG PT=69 DX=-0.25
TANG PT=70 DX=-0.1875
*LUMP PT=70 MA=0.052
CROS TY=0 OD=2.875 WT=0.375 MA=15.504 SO=1.0 KL=1
TANG PT=71 DX=-0.417
* VALVE RC10
LUMP PT=71 MA=0.105
TANG PT=72 DX=-0.417
*LUMP PT=72 MA=0.052
CROS TY=0 OD=2.875 WT=0.375 MA=14.383 SO=1.0
TANG PT=73 DX=-1.854
* SNUBBER PSH34
LUMP PT=73 MA=0.025
SNUB PT=73 FR=1 LO=0 DZ=1 SP=77.0 LV=6
TANG PT=74 DX=-0.2083
* VALVE RC50
CROS TY=0 OD=2.875 WT=0.375 MA=15.504 SO=1.0 KL=1
TANG PT=75 DX=-0.417
LUMP PT=75 MA=0.075
TANG PT=76 DX=-0.417
CROS TY=0 OD=2.875 WT=0.375 MA=14.383 SO=1.0
*END OF 2.5in LOOP AT 77
TANG PT=77 DX=-0.2083
TANG PT=78 DX=-0.334
* SPRING PSH33
LUMP PT=78 MA=0.010
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RSTN PT=78 FR=1 LO=0 DY=1 SP=0.400 LV=6
TANG PT=79 DX=-4.771
* SPRING PSH23
LUMP PT=79 MA=0.004
RSTN PT=79 FR=1 LO=0 DY=1 SP=0.035 LV=6
TANG PT=80 DX=-0.9063
TANG PT=81 DX=-0.5365
* ELBOW # 9
BRAD PT=82 RA=0.3125
TANG PT=83 DZ=-4.5833
TANG PT=84 DZ=-0.1944
TANG PT=85 DZ=-0.639
* ELBOW # 10
BRAD PT=86 RA=0.5
TANG PT=87 DX=-0.8250 DY=-0.8250
ANCH PT=87 LO=0 PL=0 LV=7
JUNC PT=47
CROS TY=0 OD=2.875 WT=0.375 MA=14.383 SO=1.0
TANG PT=91 DY=0.25
TANG PT=92 DY=1.25
* ELBOW-1 OF 2.5 in. LOOP
BRAD PT=93 RA=0.313
TANG PT=94 DZ=0.5833
* VALVE RC262
CROS TY=0 OD=2.875 WT=0.375 MA=15.504 SO=1.0 KL=1
TANG PT=95 DZ=0.417
LUMP PT=95 MA=0.075
TANG PT=96 DZ=0.417
CROS TY=0 OD=2.875 WT=0.375 MA=14.383 SO=1.0
TANG PT=97 DZ=0.3333
* ELBOW-2 OF 2.5 in. LOOP
BRAD PT=98 RA=0.3125
TANG PT=99 DY=-0.3125
TANG PT=100 DY=-0.375
TANG PT=101 DY=-0.25
TANG PT=102 DY=-0.3125
TANG PT=77 DY=-0.25
* START 0.5 in LOOP
JUNC PT=59
CROS TY=0 OD=0.840 WT=0.188 MA=4.291 SO=1.0
TANG PT=103 DX=-0.310
TANG PT=104 DX=-0.774
* VALVE D48-1
CROS TY=0 OD=0.840 WT=0.188 MA=27.04 SO=1.0 KL=1
TANG PT=105 DX=-0.25
LUMP PT=105 MA=0.012
TANG PT=106 DX=-0.25
CROS TY=0 OD=0.840 WT=0.188 MA=4.291 SO=1.0
TANG PT=107 DX=-0.958
TANG PT=108 DX=-0.125
* ELBOW OF 0.5 IN. LOOP
BRAD PT=109 RA=0.125
TANG PT=110 DZ=0.125
TANG PT=111 DZ=0.281
TANG PT=112 DZ=0.118
* REDUCER TO END THE 0.5 IN. LOOP
CROS TY=0 OD=1.900 WT=0.281 MA=8.565 SO=1.0
TANG PT=68 DZ=0.310
* START THE 1.5 IN. BRANCH
JUNC PT=101
TANG PT=113 DZ=0.500
CROS TY=0 OD=1.900 WT=0.281 MA=44.30 SO=1.0 KL=1
TANG PT=114 DZ=0.354
LUMP PT=114 MA=0.025
TANG PT=115 DZ=0.354
CROS TY=0 OD=1.900 WT=0.281 MA=8.565 SO=1.0
TANG PT=116 DZ=0.521
TANG PT=117 DZ=0.187
* ELBOW-1 OF 1.5 IN. LOOP
BRAD PT=118 RA=0.187
TANG PT=119 DY=0.187
TANG PT=120 DY=4.760
TANG PT=121 DY=0.187
* ELBOW-2 OF 1.5 IN. LOOP
BRAD PT=122 RA=0.187
TANG PT=123 DZ=0.187
TANG PT=124 DZ=0.353
* SNUBBER PSH25
LUMP PT=124 MA=0.025
SNUB PT=124 FR=1 LO=0 DX=1 SP=77.0 LV=6
TANG PT=125 DZ=0.844
TANG PT=126 DZ=0.187
* ELBOW-3 OF 1.5 IN. LOOP
BRAD PT=127 RA=0.187
TANG PT=128 DY=-0.187
TANG PT=129 DY=-2.146
* SNUBBER PSH26
LUMP PT=129 MA=0.025
SNUB PT=129 FR=1 LO=0 DZ=1 SP=77.0 LV=6
TANG PT=130 DY=-3.083
ANCH PT=130 LO=0 PL=0 LV=6
* END-1
JUNC PT=65
CROS TY=0 OD=2.875 WT=0.375 MA=14.383 SO=1.0
TANG PT=131 DY=0.271
LUMP PT=131 MA=0.0315
SNUB PT=131 FR=1 LO=0 DX=1 SP=77.0 LV=6
SNUB PT=131 FR=1 LO=0 DZ=1 SP=77.0 LV=6
TANG PT=132 DY=0.271
LUMP PT=132 MA=0.230
* END-2
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JUNC PT=71
TANG PT=133 DY=0.271
LUMP PT=133 MA=0.0315
SNUB PT=133 PR=1 LO=0 DX=1 SP=77.0 LV=6
SNUB PT=133 PR=1 LO=0 DZ=1 SP=77.0 LV=6
TANG PT=134 DY=0.271
LUMP PT=134 MA=0.230
22229000   89
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PRESSURIZER SPRAY LINE - X DIRECTION NUM
   78   14    3    3   31    1    0   11937    0    0    0    1    1
  900   34   34    1.0E-6        29.58     386.4 0.01
0.021110402 0.022874957 0.05000
 0.05000 0.042150316 0.026664507 0.023447462 0.022824928 0.021920399
 0.021075846 0.019440826 0.01940034 0.019651426 0.019774727 0.021511679
 0.024044447 0.02438673 0.025938944 0.027495118 0.02811796 0.029823984
 0.030201077 0.031985314 0.033621829 0.035322455 0.036511943 0.037098326
 0.037278705 0.038031279 0.039581225 0.040837123 0.041519254 0.041730245
 0.042637041
 3041 3042 3043 3061 3063 3072 3081 3103 3121 3122 3123 3091 3092 3093
    1    2    3    4    6    8   10   15   16   17   18   19   20   21
100000000.          0.0          0.          0.0          0.          0.          0.          0.
       0.0          0.           0.          0.           0.          0.
       0. 100000000.             0.          0.0          0.          0.          0.          0.
       0.0          0.           0.          0.           0.          0.
      0.0          0. 100000000.             0.0          0.          0.          0.          0.
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  .16090E+02     .57236E+00
  .16598E+02     .53851E+00
  .17959E+02     .46243E+00
  .18256E+02     .44245E+00
  .19641E+02     .48331E+00
  .20889E+02     .42909E+00
  .22170E+02     .38558E+00
  .23057E+02     .38078E+00
  .23492E+02     .37893E+00
  .23625E+02     .38072E+00
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  .25319E+02     .38027E+00
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  .26733E+02     .36608E+00
  .26886E+02     .36215E+00
  .27543E+02     .35801E+00
  .32918E+02     .35783E+00
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  .74677E+01     .84833E+00
  .80710E+01     .73084E+00
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  .10179E+02     .60358E+00
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  .12037E+02     .61746E+00
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  .14793E+02     .49735E+00
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  .16598E+02     .53662E+00
  .17959E+02     .45966E+00
  .18256E+02     .43977E+00
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  .56890E+01     .77350E+00
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  .80710E+01     .72976E+00
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  .10179E+02     .60239E+00
  .10627E+02     .53442E+00
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  .14793E+02     .49668E+00
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  .16598E+02     .53489E+00
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  .80710E+01     .72513E+00
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  .10627E+02     .53128E+00
  .12037E+02     .61433E+00
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  .14793E+02     .49379E+00
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  .23492E+02     .37732E+00
  .23625E+02     .37902E+00
  .24181E+02     .37462E+00
  .25319E+02     .37647E+00
  .26236E+02     .36925E+00
  .26733E+02     .36477E+00
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  .74677E+01     .77975E+00
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  .23625E+02     .37328E+00
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  .26886E+02     .35900E+00
  .27543E+02     .35726E+00
  .32918E+02     .35699E+00
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```
PRESSURIZER SPRAY LINE - X DIRECTION RUN
   78   14    3    3   31    1    0  11937   1    0    0    1    1
  900   34   34    1.0E-6       28.18     386.4 0.01
0.021110402 0.022674957 0.05000
 0.05000 0.042150316 0.026664507 0.023447462 0.022824928 0.021920399
 0.021075846 0.019440826 0.01940034 0.019651426 0.019774727 0.021511679
 0.024044447 0.02438673 0.025938944 0.027495118 0.02811796 0.029823984
 0.030201077 0.031985314 0.033621829 0.035322455 0.036511943 0.037098326
 0.037278705 0.038031279 0.039581225 0.040837123 0.041519254 0.041730245
 0.042637041
 3041 3042 3043 3061 3063 3072 3081 3103 3121 3122 3123 3091 3092 3093
    1    2    3    4    6    8   10   15   16   17   18   19   20   21
100000000.        0.0          0.          0.0         0.          0.          0.          0.
      0.0         0.           0.          0.          0.          0.
      0. 100000000.            0.          0.0         0.          0.          0.          0.
      0.0         0.           0.          0.          0.          0.
     0.0          0. 100000000.            0.0         0.          0.          0.          0.
      0.0         0.           0.          0.          0.          0.
       0.         0.           0.          77.0        0.          0.          0.          0.
      0.0         0.           0.          0.          0.          0.
       0.         0.           0.          0.0        77.          0.          0.          0.
      0.0         0.           0.          0.          0.          0.
       0.         0.           0.          0.0         0.      77.056          0.          0.
      0.0         0.           0.          0.          0.          0.
       0.         0.           0.          0.0         0.          0.         77.          0.
      0.0         0.           0.          0.          0.          0.
       0.         0.           0.          0.0         0.          0.          0.         77.
      0.0         0.           0.          0.          0.          0.
       0.         0.           0.          0.0         0.          0.          0.          0.
100000520.        0.           0.          0.          0.          0.
       0.         0.           0.          0.0         0.          0.          0.          0.
     0.0 100000366.            0.          0.          0.          0.
       0.         0.           0.          0.0         0.          0.          0.          0.
      0.0         0. 100000462.            0.          0.          0.
       0.         0.           0.          0.0         0.          0.          0.          0.
      0.0         0.           0. 100000000.           0.          0.
       0.         0.           0.          0.0         0.          0.          0.          0.
      0.0         0.           0.          0 100000000.            0.
       0.         0.           0.          0.0         0.          0.          0.          0.
      0.0         0.           0.          0.          0. 100000000.
1 8 130
10.1792   12.0367   32.917
0.0      0.02317  0.1283
0.0      0.0      0.0
0.01573 0.0       0.0
0.0      0.06384  0.1936
0.05286 0.0       0.0
0.0      0.0      0.0
0.0      0.11136  0.16349
0.1903   0.0      0.0
0.0      0.2428   -0.09269
0.0      0.0      0.0
0.2483   0.0      0.0
0.0      0.1323   0.1277
0.0      0.0      0.0
0.1179   0.0      0.0
0.0      5.3885  3.7583
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  .15867E+01     .38285E+00
  .28009E+01     .70583E+00
  .34301E+01     .57266E+00
  .36006E+01     .57375E+00
  .38984E+01     .50008E+00
  .42591E+01     .65018E+00
  .56890E+01     .48766E+00
  .74677E+01     .40197E+00
  .80710E+01     .31161E+00
  .83071E+01     .28366E+00
  .10179E+02     .23398E+00
  .10627E+02     .21893E+00
  .12037E+02     .22818E+00
  .13130E+02     .21346E+00
  .13439E+02     .20764E+00
  .14793E+02     .19535E+00
  .16090E+02     .18595E+00
  .16598E+02     .18773E+00
  .17959E+02     .18417E+00
  .18256E+02     .18452E+00
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  .20889E+02     .18666E+00
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  .23492E+02     .18903E+00
  .23625E+02     .18953E+00
  .24181E+02     .19080E+00
  .25319E+02     .19016E+00
  .26236E+02     .19026E+00
  .26733E+02     .18948E+00
  .26886E+02     .18890E+00
  .27543E+02     .18529E+00
  .32918E+02     .18293E+00
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  .42591E+01     .64231E+00
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  .13130E+02     .21292E+00
  .13439E+02     .20714E+00
  .14793E+02     .19524E+00
  .16090E+02     .18615E+00
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  .17959E+02     .18420E+00
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  .23625E+02     .18947E+00
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  .83071E+01     .28096E+00
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  .13130E+02     .21243E+00
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  .23057E+02     .18671E+00
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  .23625E+02     .18943E+00
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  .24181E+02     .19049E+00
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  .74677E+01     .38569E+00
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  .83071E+01     .27532E+00
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  .12037E+02     .21933E+00
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  .26236E+02     .19008E+00
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  .19641E+02     .18885E+00
  .20889E+02     .18679E+00
  .22170E+02     .18488E+00
  .23057E+02     .18654E+00
  .23492E+02     .18792E+00
  .23625E+02     .18826E+00
  .24181E+02     .18915E+00
  .25319E+02     .18946E+00
  .26236E+02     .18895E+00
  .26733E+02     .18824E+00
  .26886E+02     .18789E+00
  .27543E+02     .18596E+00
  .32918E+02     .18336E+00
34    0.0353225
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  .15867E+01     .33940E+00
  .28009E+01     .50220E+00
  .34301E+01     .43589E+00
  .36006E+01     .43024E+00
  .38984E+01     .39910E+00
  .42591E+01     .49687E+00
  .56890E+01     .43706E+00
  .74677E+01     .31647E+00
  .80710E+01     .24425E+00
  .83071E+01     .23784E+00
  .10179E+02     .21893E+00
  .10627E+02     .20263E+00
  .12037E+02     .20067E+00
  .13130E+02     .20022E+00
  .13439E+02     .19728E+00
  .14793E+02     .19202E+00
  .16090E+02     .18968E+00
  .16598E+02     .18721E+00
  .17959E+02     .18522E+00
  .18256E+02     .18592E+00
  .19641E+02     .18875E+00
  .20889E+02     .18679E+00
  .22170E+02     .18500E+00
  .23057E+02     .18653E+00
  .23492E+02     .18783E+00
  .23625E+02     .18815E+00
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  .25319E+02     .18936E+00
  .26236E+02     .18883E+00
  .26733E+02     .18813E+00
  .26886E+02     .18779E+00
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  .32918E+02     .18341E+00
34    0.0365119
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  .15867E+01     .33657E+00
  .28009E+01     .49277E+00
  .34301E+01     .42830E+00
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  .83071E+01     .23562E+00
  .10179E+02     .21816E+00
  .10627E+02     .20185E+00
  .12037E+02     .20024E+00
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  .13439E+02     .19691E+00
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  .18256E+02     .18597E+00
  .19641E+02     .18868E+00
  .20889E+02     .18678E+00
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  .23057E+02     .18652E+00
  .23492E+02     .18777E+00
  .23625E+02     .18809E+00
  .24181E+02     .18892E+00
  .25319E+02     .18929E+00
  .26236E+02     .18875E+00
  .26733E+02     .18805E+00
  .26886E+02     .18772E+00
  .27543E+02     .18601E+00
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  .34301E+01     .42466E+00
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  .42591E+01     .48764E+00
  .56890E+01     .43136E+00
  .74677E+01     .31034E+00
  .80710E+01     .23935E+00
  .83071E+01     .23456E+00
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  .16598E+02     .18725E+00
  .17959E+02     .18532E+00
  .18256E+02     .18599E+00
  .19641E+02     .18865E+00
  .20889E+02     .18678E+00
  .22170E+02     .18512E+00
  .23057E+02     .18651E+00
  .23492E+02     .18775E+00
  .23625E+02     .18805E+00
  .24181E+02     .18887E+00
  .25319E+02     .18925E+00
  .26236E+02     .18871E+00
  .26733E+02     .18801E+00
  .26886E+02     .18769E+00
  .27543E+02     .18601E+00
  .32918E+02     .18345E+00
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  .42591E+01     .48673E+00
  .56890E+01     .43079E+00
  .74677E+01     .30974E+00
  .80710E+01     .23886E+00
  .83071E+01     .23424E+00
  .10179E+02     .21768E+00
  .10627E+02     .20135E+00
  .12037E+02     .19998E+00
  .13130E+02     .19940E+00
  .13439E+02     .19668E+00
  .14793E+02     .19182E+00
  .16090E+02     .18977E+00
  .16598E+02     .18726E+00
  .17959E+02     .18533E+00
  .18256E+02     .18600E+00
  .19641E+02     .18864E+00
  .20889E+02     .18678E+00
  .22170E+02     .18513E+00
  .23057E+02     .18651E+00
  .23492E+02     .18774E+00
  .23625E+02     .18804E+00
  .24181E+02     .18886E+00
  .25319E+02     .18924E+00
  .26236E+02     .18870E+00
  .26733E+02     .18800E+00
  .26886E+02     .18768E+00
  .27543E+02     .18602E+00
  .32918E+02     .18345E+00
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  .28009E+01     .48135E+00
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  .36006E+01     .41491E+00
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  .42591E+01     .48298E+00
  .56890E+01     .42838E+00
  .74677E+01     .30726E+00
  .80710E+01     .23688E+00
  .83071E+01     .23291E+00
  .10179E+02     .21722E+00
  .10627E+02     .20088E+00
  .12037E+02     .19975E+00
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  .20889E+02     .18677E+00
  .22170E+02     .18518E+00
  .23057E+02     .18651E+00
  .23492E+02     .18770E+00
  .23625E+02     .18800E+00
  .24181E+02     .18880E+00
  .25319E+02     .18919E+00
  .26236E+02     .18865E+00
  .26733E+02     .18795E+00
  .26886E+02     .18764E+00
  .27543E+02     .18602E+00
  .32918E+02     .18347E+00
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  .34301E+01     .40988E+00
  .36006E+01     .40732E+00
  .38984E+01     .37958E+00
  .42591E+01     .47551E+00
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 .12037E+02    .19933E+00
 .13130E+02    .19855E+00
 .13439E+02    .19612E+00
 .14793E+02    .19160E+00
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 .18256E+02    .18608E+00
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 .22170E+02    .18526E+00
 .23057E+02    .18650E+00
 .23492E+02    .18763E+00
 .23625E+02    .18792E+00
 .24181E+02    .18869E+00
 .25319E+02    .18910E+00
 .26236E+02    .18855E+00
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 .26886E+02    .18756E+00
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 .42591E+01    .46969E+00
 .56890E+01    .41947E+00
 .74677E+01    .29851E+00
 .80710E+01    .22989E+00
 .83071E+01    .22822E+00
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 .13130E+02    .19812E+00
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 .14793E+02    .19149E+00
 .16090E+02    .18996E+00
 .16598E+02    .18734E+00
 .17959E+02    .18550E+00
 .18256E+02    .18612E+00
 .19641E+02    .18844E+00
 .20889E+02    .18575E+00
 .22170E+02    .18533E+00
 .23057E+02    .18649E+00
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 .23625E+02    .18786E+00
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 .25319E+02    .18902E+00
 .26236E+02    .18847E+00
 .26733E+02    .18778E+00
 .26886E+02    .18750E+00
 .27543E+02    .18604E+00
 .32918E+02    .18353E+00
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 .38984E+01    .37656E+00
 .42591E+01    .46662E+00
 .56890E+01    .41732E+00
 .74677E+01    .29649E+00
 .80710E+01    .22826E+00
 .83071E+01    .22714E+00
 .10179E+02    .21513E+00
 .10627E+02    .19884E+00
 .12037E+02    .19885E+00
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 .18256E+02    .18614E+00
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 .20889E+02    .18674E+00
 .22170E+02    .18536E+00
 .23057E+02    .18648E+00
 .23492E+02    .18755E+00
 .23625E+02    .18782E+00
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 .26733E+02    .18774E+00
 .26886E+02    .18746E+00
 .27543E+02    .18605E+00
 .32918E+02    .18354E+00
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 .15867E+01    .32457E+00
 .28009E+01    .45628E+00
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 .56890E+01    .41666E+00
 .74677E+01    .29588E+00
 .80710E+01    .22779E+00
 .83071E+01    .22681E+00
 .10179E+02    .21500E+00
 .10627E+02    .19873E+00
 .12037E+02    .19880E+00
 .13130E+02    .19784E+00
 .13439E+02    .19586E+00
 .14793E+02    .19141E+00
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 .16598E+02    .18736E+00
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 .18256E+02    .18615E+00
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 .23492E+02    .18754E+00
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 .26236E+02    .18841E+00
 .26733E+02    .18773E+00
 .26886E+02    .18745E+00
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 .32918E+02    .18354E+00
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 .18256E+02    .18616E+00
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 .23492E+02    .18752E+00
 .23625E+02    .18779E+00
 .24181E+02    .18851E+00
 .25319E+02    .18895E+00
 .26236E+02    .18839E+00
 .26733E+02    .18771E+00
 .26886E+02    .18743E+00
 .27543E+02    .18605E+00
 .32918E+02    .18355E+00
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 .26236E+02    .18836E+00
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 .32918E+02    .18356E+00
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  .42591E+01     .43263E+00
  .56690E+01     .39143E+00
  .74677E+01     .27444E+00
  .80710E+01     .21267E+00
  .83071E+01     .22048E+00
  .10179E+02     .21041E+00
  .10627E+02     .19799E+00
  .12037E+02     .19725E+00
  .13130E+02     .16578E+00
  .13439E+02     .19423E+00
  .14793E+02     .19061E+00
  .16090E+02     .19006E+00
  .16598E+02     .18754E+00
  .17959E+02     .18584E+00
  .18256E+02     .18631E+00
  .19641E+02     .18796E+00
  .20889E+02     .18666E+00
  .22170E+02     .18565E+00
  .23057E+02     .18643E+00
  .23492E+02     .18723E+00
  .23625E+02     .18744E+00
  .24181E+02     .18803E+00
  .25319E+02     .18849E+00
  .26236E+02     .18794E+00
  .26733E+02     .18729E+00
  .26886E+02     .18708E+00
  .27543E+02     .18603E+00
  .32918E+02     .18367E+00
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PRESSURIZER SPRAY LINE - X DIRECTION RUN

  NUMBER OF PRIMARY DOF                NP=   78
  NUMBER OF CONNECTING DOF             NC=   14
  NUMBER OF PIPING ANCHORS             NA=    3
  NUMBER OF PRIMARY MODES             NPM=    3
  NUMBER OF SECONDARY MODES           NSM=   31
  NORMALIZATION INDEX FOR P.S.      NORMP=    1
  NORMALIZATION INDEX FOR S.S.      NORMS=    0
  OUTPUT TYPE INDICATOR            IPRINT=    0
  OUTPUT TYPE INDICATOR           IPRINTS=    0
  PRIMARY RESIDUAL MODE KEY         KRESP=    0
  SECONDARY RESIDUAL MODE KEY       KRESS=    1
  NUMBER OF NONZERO IN PRIMARY SYSTEM STIFFNESS MATRIX       NONZP=11937
  GLOBAL EARTHQUAKE DIRECTION  X=1  Y=2(VERTICAL)  Z=3       KFLG=    1

  NUMBER OF ITERATIONS              NITER=  900
  NUMBER OF SPECTRA CURVES         NCURVE=   34
  NUMBER OF SPECTRUM POINTS          MXLP=   34
  ITERATION TOLERANCE                 TOL=  0.1000E-05
  RIGID FREQUENCY                      FR=  29.580
  SPECTRUM FACTOR                    SFTR= 386.400
  CORRELATION TOLERANCE               ET=   0.010


  TOTAL STORAGE REQUIRED  =   1435037
  ACTUAL PROVIDED STORAGE  = 550000000

  PRIMARY DAMPING RATIOS

  0.2111E-01  0.2287E-01  0.5000E-01

  SECONDARY DAMPING RATIOS

  0.5000E-01  0.4215E-01  0.2666E-01  0.2345E-01  0.2282E-01  0.2192E-01
  0.2104E-01  0.1944E-01  0.1940E-01  0.1965E-01  0.1977E-01  0.2151E-01
  0.2404E-01  0.2439E-01  0.2594E-01  0.2750E-01  0.2812E-01  0.2982E-01
  0.3020E-01  0.3199E-01  0.3362E-01  0.3532E-01  0.3651E-01  0.3710E-01
  0.3728E-01  0.3803E-01  0.3958E-01  0.4084E-01  0.4152E-01  0.4173E-01
  0.4264E-01

  CONECTING DOF # OF PRIMARY SYSTEM

 3041 3042 3043 3061 3063 3072 3081 3103 3121 3122 3123 3091 3092 3093

  CONECTING DOF # OF PIPING SUPPORTS

    1    2    3    4    6    8   10   15   16   17   18   19   20   21

  STIFFNESS OF CONNECTING DOF OF S.S.

  0.1000E+09  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.1000E+09  0.0000E+00  0.0000E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
  0.1000E+09  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.7700E+02  0.0000E+00  0.0000E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
  0.7700E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.7706E+02  0.0000E+00  0.0000E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
  0.7700E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.7700E+02  0.0000E+00  0.0000E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
  0.1000E+09  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.1000E+09  0.0000E+00  0.0000E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
```



```
  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
  0.1000E+09  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.1000E+09  0.0000E+00  0.0000E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
  0.1000E+09  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.1000E+09

  NODE # OF PIPING ANCHORS

    1   87  130
 JCTAB =  1  2  3  4  5  9001  9002  6  7  9003  9004  9  10  9005  9006  11  12
  9007  9008  13  14  15  16  17  18  19  20  21  9009  9010  22  23  24  9011
  9012  25  26  9013  9014  27  28  29  9015  9016  30  31  32  35  37  9017
  9018  38  39  9019  40  41  43  44  45  9020  46  47  91  92  93  94  95  96
  97  98  100  101  102  113  114  115  116  118  9023  120  122  124  125  127
  129  9024  130  48  49  50  51  52  53  54  55  56  57  58  59  103  104  105
  106  107  109  111  112  60  61  62  63  64  65  131  132  66  67  68  69  70
  71  133  134  72  73  74  75  76  77  78  9021  79  80  81  82  9022  83  84
  85  86  87

  SECONDARY FREQUENCIES (HZ)

   1.3145174   1.5867480   2.8009113   3.4301104   3.6005707   3.8983602
   4.2590651   5.6890491   7.4677360   8.0709815   8.3071158  10.6266291
  13.1298864  13.4392027  14.7926822  16.0903496  16.5975176  17.9593901
  18.2558554  19.6406358  20.8892353  22.1695861  23.0565499  23.4915415
  23.6250718  24.1808508  25.3192702  26.2362672  26.7325045  26.8857538
  27.5431523

  PRIMARY FREQUENCIES (HZ)

  10.1792000  12.0367000  32.9170000

  MODE SHAPE OF P.S. AT CONNECTING DOF    3041

  0.0000E+00  0.2317E-01  0.1283E+00

  MODE SHAPE OF P.S. AT CONNECTING DOF    3042

  0.0000E+00  0.0000E+00  0.0000E+00

  MODE SHAPE OF P.S. AT CONNECTING DOF    3043

  0.1573E-01  0.0000E+00  0.0000E+00

  MODE SHAPE OF P.S. AT CONNECTING DOF    3061

  0.0000E+00  0.6384E-01  0.1936E+00

  MODE SHAPE OF P.S. AT CONNECTING DOF    3063

  0.5286E-01  0.0000E+00  0.0000E+00

  MODE SHAPE OF P.S. AT CONNECTING DOF    3072

  0.0000E+00  0.0000E+00  0.0000E+00

  MODE SHAPE OF P.S. AT CONNECTING DOF    3081

  0.0000E+00  0.1114E+00  0.1635E+00

  MODE SHAPE OF P.S. AT CONNECTING DOF    3103

  0.1903E+00  0.0000E+00  0.0000E+00

  MODE SHAPE OF P.S. AT CONNECTING DOF    3121

  0.0000E+00  0.2428E+00 -0.9269E-01

  MODE SHAPE OF P.S. AT CONNECTING DOF    3122

  0.0000E+00  0.0000E+00  0.0000E+00

  MODE SHAPE OF P.S. AT CONNECTING DOF    3123

  0.2483E+00  0.0000E+00  0.0000E+00

  MODE SHAPE OF P.S. AT CONNECTING DOF    3091

  0.0000E+00  0.1323E+00  0.1277E+00

  MODE SHAPE OF P.S. AT CONNECTING DOF    3092
```

```
 0.0000E+00  0.0000E+00  0.0000E+00

 MODE SHAPE OF P.S. AT CONNECTING DOF     3093

 0.1179E+00  0.0000E+00  0.0000E+00

 PARTICIPATION FACTOR FOR P.S.---GAMAP

 0.0000E+00  0.5388E+01  0.3758E+01



      **************************************************************
      *                                                            *
      *                                                            *
      *                                                            *
      *                    A COMPUTER PROGRAM FOR                  *
      *                                                            *
      *                                                            *
      *    COUPLED RESPONSE SPECTRUM ANALYSIS OF SECONDARY SYSTEMS *
      *                                                            *
      *                       " C R E S T "                        *
      *                                                            *
      *                                                            *
      *                      DEVELOPED BY                          *
      *                                                            *
      *                   AJAYA KUMAR GUPTA,                       *
      *              JING-WEN JAW   ASHINAV GUPTA                  *
      *                                                            *
      *                  NORTH CAROLINA STATE UNIVERSITY           *
      *                     RALEIGH, NORTH CAROLINA                *
      *                                                            *
      *                      REVISION-1.0                          *
      *                                                            *
      *                                                            *
      **************************************************************


 C O U P L E D   F R E Q U E N C I E S   A N D   M O D E   S H A P E S   E X T R A C T I O N

 NUMBER OF ITERATIONS TO BE APPLIED FOR COUPLED FREQUENCIES EXTRACTION   NITER =  900

 CONVERGENCE TOLERANCE FOR COUPLED FREQUENCIES                          TOL = 0.10000E-05


 COUPLED MODE SHAPES (FOR PRIMARY MODE) MODE            1
   FREQUENCY (HZ.) =        10.17603

 MODAL DISP AT PRIMARY SYSTEM CONNETING DOF

 DOF #      DISPLACEMENT

3041         0.1681E-04
3042         0.0000E+00
3043         0.4540E-02
3061         0.3292E-04
3063         0.1526E-01
3072         0.0000E+00
3081         0.4284E-04
3103         0.5492E-01
3121         0.5579E-04
3122         0.0000E+00
3123         0.7166E-01
3091         0.4532E-04
3092         0.0000E+00
3093         0.3403E-01

 MODAL DISPLACEMENTS AT SECONDARY SYSTEM DOF

 NODE       DX          DY          DZ         ROT-X       ROT-Y       ROT-Z

   1    0.2097E-09  0.4413E-10  0.1451E-08 -0.8188E-11 -0.7718E-09  0.7145E-11
   2    0.1814E-02 -0.4021E-05  0.1824E-02 -0.1163E-04 -0.7384E-03  0.8466E-05
   3    0.9203E-02  0.6994E-04  0.2336E-01 -0.4756E-04 -0.2125E-02  0.1658E-04
   4    0.9209E-02  0.2816E-03  0.9863E-01 -0.1142E-03 -0.3289E-02 -0.7716E-05
   5    0.9211E-02  0.1492E-04  0.1437E+00 -0.1477E-03 -0.3353E-02 -0.3384E-04
9001    0.9231E-02 -0.5598E-04  0.1499E+00 -0.1556E-03 -0.3325E-02 -0.4194E-04
9002    0.9295E-02 -0.1189E-03  0.1542E+00 -0.1714E-03 -0.3292E-02 -0.4954E-04
   6    0.9396E-02 -0.1452E-03  0.1555E+00 -0.1953E-03 -0.3259E-02 -0.5598E-04
   7    0.9528E-02 -0.1451E-03  0.1551E+00 -0.2147E-03 -0.3[illegible]E-02 -0.5902E-04
9003    0.1109E-01 -0.1438E-03  0.1349E+00 -0.1036E-02 -0.2654E-03  0.1308E-04
9004    0.7516E-02 -0.1423E-03  0.7815E-01 -0.1915E-02 -0.2084E-03  0.1924E-03
   9    0.2638E-03 -0.1408E-03  0.1024E-01 -0.1448E-02 -0.1514E-02  0.[illegible]976E-03
  10   -0.8020E-03 -0.1405E-03  0.1822E-02 -0.1171E-02 -0.1415E-02  0.1585E-03
9005   -0.4801E-02 -0.1390E-03 -0.1386E-01  0.7496E-04 -0.9307E-03  0.1110E-03
9006   -0.8172E-02 -0.1375E-03  0.7440E-03  0.7537E-03 -0.4464E-03  0.1063E-03
  11   -0.1111E-01 -0.1359E-03  0.2746E-01  0.8631E-03  0.3794E-04  0.6897E-04
  12   -0.1170E-01 -0.1353E-03  0.3639E-01  0.7868E-03  0.2045E-03  0.3833E-04
9007   -0.1176E-01 -0.1199E-03  0.3772E-01  0.7504E-03  0.2386E-03  0.2604E-04
9008   -0.1179E-01 -0.9316E-04  0.3837E-01  0.7133E-03  0.2814E-03  0.1301E-04
  13   -0.1180E-01 -0.6121E-04  0.3815E-01  0.6827E-03  0.3290E-03 -0.7067E-06
  14   -0.1180E-01 -0.9739E-04  0.3720E-01  0.6454E-03  0.3662E-03 -0.1168E-04
  15   -0.1180E-01 -0.2415E-03  0.3475E-01  0.5641E-03  0.4535E-03 -0.3733E-04
  16   -0.1180E-01 -0.1121E-02  0.2697E-01  0.3751E-03  0.6576E-03 -0.8071E-04
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  17   -0.1102E-01 -0.1725E-02  0.2513E-01  0.3327E-03  0.7322E-03 -0.8312E-04
  18   -0.7205E-02 -0.3600E-02  0.2131E-01  0.2440E-03  0.8236E-03 -0.1015E-03
  19   -0.1079E-02 -0.5607E-02  0.1519E-01  0.1094E-03  0.9381E-03 -0.1185E-03
  20    0.1783E-01 -0.6195E-02 -0.3735E-02 -0.3017E-03  0.1073E-02 -0.1044E-03
  21    0.2094E-01 -0.5478E-02 -0.8093E-02 -0.4549E-03  0.1067E-02 -0.5101E-04
9009    0.1920E-01 -0.5501E-02 -0.2577E-01 -0.1311E-03  0.9421E-03  0.1381E-03
9010    0.1087E-01 -0.5544E-02 -0.1135E-01  0.7441E-03  0.8170E-03  0.2514E-03
  22    0.1544E-02 -0.5606E-02  0.1736E-01  0.3638E-03  0.6919E-03  0.1752E-03
  23    0.2350E-03 -0.5621E-02  0.1923E-01  0.8593E-04  0.6654E-03  0.1301E-03
  24   -0.1161E-02 -0.5658E-02  0.1570E-01 -0.4678E-03  0.6143E-03  0.4938E-04
9011   -0.1150E-02 -0.5741E-02 -0.8164E-02 -0.7246E-03  0.5101E-03 -0.3473E-04
9012    0.6556E-03 -0.5838E-02 -0.2085E-01  0.1050E-03  0.4060E-03 -0.7462E-04
  25    0.3844E-02 -0.5948E-02 -0.1466E-02  0.9061E-03  0.3018E-03 -0.1157E-03
  26    0.4988E-02 -0.5982E-02  0.7519E-02  0.9581E-03  0.2721E-03 -0.1235E-03
9013    0.8637E-02 -0.6116E-02  0.3249E-01  0.1854E-03  0.1616E-03 -0.5184E-04
9014    0.7173E-02 -0.6265E-02  0.1725E-01 -0.8808E-03  0.5107E-04  0.1484E-03
  27   -0.9554E-03 -0.6428E-02 -0.4555E-02  0.2427E-03 -0.5947E-04  0.2693E-03
  28   -0.4442E-02 -0.6492E-02  0.6688E-02  0.1567E-02 -0.1008E-03  0.2475E-03
  29   -0.8455E-02 -0.6597E-02  0.5633E-01  0.3060E-02 -0.1632E-03  0.1378E-03
9015   -0.8141E-02 -0.6804E-02  0.1606E+00  0.1660E-02 -0.2794E-03 -0.1585E-03
9016    0.9089E-03 -0.7026E-02  0.1532E+00 -0.1954E-02 -0.3963E-03 -0.2526E-03
  30    0.7481E-02 -0.7262E-02  0.5804E-01 -0.2022E-02 -0.5128E-03 -0.8177E-04
  31    0.7559E-02 -0.7268E-02  0.5604E-01 -0.1933E-02 -0.5159E-03 -0.7599E-04
  32    0.7145E-02 -0.5535E-02  0.5152E-01 -0.1411E-02 -0.5276E-03 -0.4896E-04
  35    0.5772E-02 -0.2576E-02  0.5016E-01 -0.9112E-03 -0.5369E-03 -0.3070E-04
  37    0.1252E-02  0.2682E-02  0.5012E-01 -0.5010E-03 -0.5238E-03  0.1393E-04
9017   -0.1008E-01  0.1157E-01  0.4986E-01 -0.4391E-04 -0.5659E-04  0.1852E-03
9018   -0.2302E-02  0.5518E-02  0.4954E-01  0.4139E-03  0.4211E-03  0.3565E-03
  38    0.4517E-02 -0.1309E-01  0.4917E-01  0.6687E-03 -0.3035E-03  0.5274E-03
  39   -0.1528E-02 -0.2006E-01  0.4904E-01  0.6617E-03 -0.9062E-03  0.5827E-03
9019   -0.5160E-01 -0.3694E-01  0.4852E-01  0.2119E-03 -0.1420E-02  0.7629E-03
  40   -0.7082E-01 -0.3108E-01  0.4794E-01 -0.5452E-03  0.5358E-03  0.9431E-03
  41   -0.2680E-01 -0.8743E-02  0.4739E-01 -0.8631E-03  0.2249E-02  0.1099E-02
  43   -0.1783E-01 -0.1308E-02  0.3820E-01 -0.8510E-03  0.2258E-02  0.1123E-02
  44   -0.1782E-01  0.3147E-03  0.3488E-01 -0.8456E-03  0.2146E-02  0.1123E-02
  45   -0.1782E-01  0.4603E-02  0.2723E-01 -0.8312E-03  0.1597E-02  0.1113E-02
9020   -0.1776E-01  0.3029E-01  0.4176E-01 -0.7234E-03 -0.1915E-02  0.5310E-03
  46   -0.1770E-01  0.2955E-01  0.1014E+00 -0.6157E-03 -0.1620E-02 -0.6323E-03
  47   -0.1769E-01  0.2744E-01  0.1059E+00 -0.6044E-03 -0.1380E-02 -0.7691E-03
  91   -0.1540E-01  0.2745E-01  0.1041E+00 -0.6171E-03 -0.1280E-02 -0.7464E-03
  92   -0.7947E-02  0.2749E-01  0.9737E-01 -0.4916E-03 -0.5573E-03 -0.5762E-03
  93   -0.7044E-02  0.2842E-01  0.9597E-01 -0.2346E-04 -0.1186E-03 -0.4774E-03
  94   -0.7170E-02  0.2822E-01  0.9596E-01  0.1923E-03  0.3935E-04 -0.4090E-03
  95   -0.6366E-02  0.2633E-01  0.9594E-01  0.6167E-03  0.2796E-03 -0.3035E-03
  96   -0.4372E-02  0.2204E-01  0.9591E-01  0.1141E-02  0.5114E-03 -0.1980E-03
  97   -0.4242E-02  0.2176E-01  0.9590E-01  0.1160E-02  0.5227E-03 -0.1928E-03
  98   -0.3924E-02  0.1567E-01  0.8848E-01  0.2363E-02  0.9423E-03 -0.6746E-05
 100   -0.1808E-02  0.1569E-01  0.7687E-01  0.2684E-02  0.1194E-02  0.5187E-04
 101   -0.1585E-02  0.1569E-01  0.6850E-01  0.2798E-02  0.1362E-02  0.8478E-04
 102   -0.1217E-02  0.1570E-01  0.5742E-01  0.2959E-02  0.1569E-02  0.1131E-03
 113    0.6569E-02  0.1045E-02  0.6853E-01  0.1953E-02  0.1351E-02  0.1412E-03
 114    0.1226E-01 -0.5928E-02  0.6856E-01  0.1418E-02  0.1322E-02  0.1937E-03
 115    0.1779E-01 -0.1116E-01  0.6858E-01  0.1151E-02  0.1278E-02  0.2462E-03
 116    0.2556E-01 -0.1832E-01  0.6860E-01  0.1306E-02  0.1204E-02  0.3234E-03
 118    0.2719E-01 -0.2165E-01  0.7235E-01  0.1881E-02  0.1133E-02  0.3802E-03
9023    0.1378E-01 -0.2147E-01  0.1342E+00  0.1349E-02  0.6615E-03  0.5295E-03
 120   -0.4921E-04 -0.2126E-01  0.1259E+00 -0.1685E-02  0.1901E-03  0.3807E-03
 122   -0.5119E-03 -0.1685E-01  0.1217E+00 -0.2001E-02  0.1303E-03  0.3238E-03
 124   -0.6251E-04 -0.8375E-02  0.1217E+00 -0.1847E-02  0.8484E-04  0.2568E-03
 125    0.4177E-03  0.1930E-02  0.1216E+00  0.3365E-03  0.2605E-04  0.9652E-04
 127    0.5923E-03 -0.5419E-03  0.1177E+00  0.2536E-02  0.1615E-04  0.3493E-04
 129   -0.3224E-03 -0.3198E-03  0.6806E-02  0.3157E-02  0.9524E-05 -0.3780E-04
9024   -0.3696E-03 -0.1599E-03 -0.1135E-01 -0.4823E-03  0.4762E-05  0.2191E-04
 130   -0.4077E-10 -0.3497E-06 -0.1680E-08 -0.1911E-09  0.2704E-12  0.5389E-11
  48   -0.1768E-01  0.2483E-01  0.1100E+00 -0.5387E-03 -0.1246E-02 -0.9261E-03
  49   -0.1767E-01  0.1964E-01  0.1155E+00 -0.4292E-03 -0.9071E-03 -0.1085E-02
  50   -0.1765E-01  0.1398E-01  0.1190E+00 -0.3197E-03 -0.4777E-03 -0.1101E-02
  51   -0.1765E-01  0.1231E-01  0.1197E+00 -0.2869E-03 -0.3418E-03 -0.1075E-02
  52   -0.1763E-01  0.6762E-02  0.1202E+00 -0.1665E-03  0.1762E-03 -0.8601E-03
  53   -0.1755E-01 -0.5002E-03  0.9069E-01  0.3645E-03  0.2098E-02  0.1224E-03
  54   -0.1741E-01  0.1036E-01  0.1748E-02  0.1147E-02  0.2126E-02  0.2109E-03
  55   -0.1741E-01  0.1051E-01  0.1664E-03  0.1164E-02  0.2081E-02  0.1959E-03
  56   -0.1127E-01  0.6172E-02 -0.6728E-02  0.1350E-02  0.1310E-02 -0.2140E-04
  57   -0.8503E-02  0.3091E-02 -0.8730E-02  0.1394E-02  0.1105E-02 -0.8747E-04
  58   -0.6519E-02  0.2636E-03 -0.6732E-02  0.1436E-02  0.9190E-03 -0.1462E-03
  59   -0.4194E-02 -0.4139E-02 -0.6735E-02  0.1503E-02  0.6746E-03 -0.2343E-03
 103   -0.4187E-02 -0.2458E-02 -0.4802E-02  0.1599E-02  0.1994E-03 -0.8954E-03
 104   -0.4158E-02  0.1236E-01 -0.8266E-02  0.1992E-02 -0.6356E-03 -0.1800E-02
 105   -0.4148E-02  0.1741E-01 -0.1009E-01  0.2119E-02 -0.5505E-03 -0.1508E-02
 106   -0.4138E-02  0.2132E-01 -0.1146E-01  0.2246E-02 -0.1573E-03 -0.1105E-02
 107   -0.4097E-02  0.2856E-01 -0.1035E-01  0.2792E-02  0.5877E-03 -0.4417E-03
 109   -0.3029E-02  0.2507E-01 -0.9359E-02  0.2803E-02  0.7232E-03 -0.5171E-03
 111   -0.9454E-03  0.1570E-01 -0.9359E-02  0.2707E-02  0.3579E-03 -0.7232E-03
 112   -0.6578E-03  0.1193E-01 -0.9359E-02  0.2597E-02 -0.8559E-05 -0.8013E-03
  60   -0.2535E-02 -0.8747E-02 -0.6734E-02  0.1571E-02  0.4804E-03 -0.3086E-03
  61   -0.1390E-02 -0.1356E-01 -0.6740E-02  0.1640E-02  0.3114E-03 -0.3829E-03
  62   -0.1313E-02 -0.1397E-01 -0.6740E-02  0.1646E-02  0.3210E-03 -0.3890E-03
  63   -0.6796E-03 -0.1865E-01 -0.6375E-02  0.1847E-02  0.2249E-04 -0.5382E-03
  64   -0.7234E-03 -0.1169E-01 -0.7071E-02  0.2192E-02 -0.1216E-03 -0.7186E-03
  65   -0.7432E-03 -0.7908E-02 -0.7777E-02  0.2349E-02 -0.1489E-03 -0.7861E-03
 131    0.1803E-02 -0.7909E-02 -0.1177E-03  0.2153E-02 -0.1489E-03 -0.7675E-03
 132    0.4379E-02 -0.7912E-02  0.7587E-02  0.2366E-02 -0.1489E-03 -0.7908E-03
  66   -0.7530E-03 -0.3786E-02 -0.8560E-02  0.2445E-02 -0.1412E-03 -0.8343E-03
  67   -0.7687E-03 -0.1925E-03 -0.9113E-02  0.2526E-02 -0.9818E-04 -0.8323E-03
  68   -0.7769E-03  0.2298E-02 -0.9358E-02  0.2584E-02 -0.4792E-04 -0.8071E-03
  69   -0.7837E-03  0.4684E-02 -0.9451E-02  0.2635E-02  0.3188E-05 -0.7645E-03
  70   -0.7868E-03  0.6375E-02 -0.9407E-02  0.2674E-02  0.5185E-04 -0.7210E-03
  71   -0.8001E-03  0.9713E-02 -0.8851E-02  0.2759E-02  0.1912E-03 -0.5893E-03
 133    0.1107E-02  0.9715E-02  0.1421E-03  0.2770E-02  0.1912E-03 -0.5884E-03
 134    0.3024E-02  0.9719E-02  0.9188E-02  0.2778E-02  0.1912E-03 -0.5893E-03
  72   -0.8065E-03  0.1231E-01 -0.7491E-02  0.2784E-02  0.3826E-03 -0.4540E-03
```

73	-0.8348E-03	0.1688E-01	0.1612E-01	0.2693E-02	0.1954E-02	-0.4359E-05
74	-0.8379E-03	0.1684E-01	0.2143E-01	0.2906E-02	0.2147E-02	0.2934E-04
75	-0.8441E-03	0.1654E-01	0.3288E-01	0.2930E-02	0.2233E-02	0.8323E-04
76	-0.8499E-03	0.1601E-01	0.4377E-01	0.2955E-02	0.1939E-02	0.1160E-03
77	-0.8529E-03	0.1570E-01	0.4843E-01	0.2967E-02	0.1656E-02	0.1235E-03
78	-0.8564E-03	0.1514E-01	0.5435E-01	0.2845E-02	0.1302E-02	0.1526E-03
9021	-0.8811E-03	0.8391E-02	0.5979E-01	0.1972E-02	-0.7657E-03	0.3020E-03
79	-0.9050E-03	-0.1271E-02	0.2289E-01	0.1099E-02	-0.1496E-02	0.3564E-03
80	-0.9138E-03	-0.5124E-02	0.7383E-02	0.7668E-03	-0.1286E-02	0.3461E-03
81	-0.9160E-03	-0.6049E-02	0.4025E-02	0.6849E-03	-0.1188E-02	0.3393E-03
82	0.2414E-02	-0.5217E-02	0.1696E-03	0.4760E-03	-0.7081E-03	0.3298E-03
9022	0.8340E-02	0.8122E-03	0.1178E-03	0.4552E-04	0.1263E-03	0.1973E-03
83	0.1760E-02	0.1147E-04	0.6624E-04	-0.3279E-04	0.2531E-03	0.6472E-04
84	0.1187E-02	-0.5595E-04	0.6157E-04	-0.1900E-04	0.2273E-03	0.5265E-04
85	0.8182E-03	-0.8237E-04	0.5823E-04	-0.6939E-05	0.2051E-03	0.4403E-04
86	0.1360E-04	-0.1909E-05	0.2414E-03	0.5864E-04	0.4001E-04	0.3855E-05
87	0.7736E-09	0.4441E-09	0.1666E-08	0.8649E-10	-0.2311E-10	-0.6112E-11

COUPLED MODE SHAPES (FOR PRIMARY MODE) MODE 2
FREQUENCY (HZ.) = 12.03604

MODAL DISP AT PRIMARY SYSTEM CONNETING DOF

DOF #	DISPLACEMENT
3041	0.6579E-02
3042	0.0000E+00
3043	-0.4505E-05
3061	0.1826E-01
3063	-0.1514E-04
3072	0.0000E+00
3081	0.3201E-01
3103	-0.5450E-04
3121	0.7016E-01
3122	0.0000E+00
3123	-0.7112E-04
3091	0.3804E-01
3093	0.0000E+00
3093	-0.3377E-04

MODAL DISPLACEMENTS AT SECONDARY SYSTEM DOF

NODE	DX	DY	DZ	ROT-X	ROT-Y	ROT-Z
1	0.2323E-09	-0.2186E-10	-0.6648E-10	-0.1991E-10	0.1842E-10	-0.2434E-10
2	-0.4575E-04	-0.1052E-03	-0.4816E-04	-0.1888E-04	0.2254E-04	-0.2469E-04
3	-0.3106E-03	-0.1044E-02	-0.8968E-03	-0.6688E-04	0.9507E-04	-0.7515E-04
4	-0.3034E-03	-0.4094E-02	-0.4661E-02	-0.1585E-03	0.1725E-03	-0.1531E-03
5	-0.2999E-03	-0.6415E-02	-0.7016E-02	-0.2045E-03	0.1723E-03	-0.1964E-03
9001	-0.1963E-03	-0.6795E-02	-0.7442E-02	-0.2110E-03	0.1676E-03	-0.2097E-03
9002	0.1024E-03	-0.7092E-02	-0.7965E-02	-0.2174E-03	0.1630E-03	-0.2226E-03
6	0.5331E-03	-0.7206E-02	-0.8462E-02	-0.2238E-03	0.1578E-03	-0.2339E-03
7	0.1069E-02	-0.7206E-02	-0.8972E-02	-0.2271E-03	0.1515E-03	-0.2395E-03
9003	0.8998E-02	-0.7198E-02	-0.1564E-01	-0.5426E-04	0.4732E-04	-0.1245E-03
9004	0.8196E-02	-0.7183E-02	-0.1185E-01	0.2521E-03	-0.5683E-04	0.1593E-03
9	0.2917E-03	-0.7162E-02	-0.1743E-02	0.1822E-03	-0.1610E-03	0.1927E-03
10	-0.8304E-03	-0.7157E-02	-0.8138E-03	0.1008E-03	-0.1790E-03	0.1595E-03
9005	-0.3461E-02	-0.7127E-02	-0.3126E-02	-0.1912E-03	-0.2675E-03	0.1558E-04
9006	-0.2898E-02	-0.7091E-02	-0.9812E-02	-0.1923E-03	-0.3560E-03	-0.2061E-04
11	-0.4534E-02	-0.7052E-02	-0.1384E-01	-0.6483E-04	-0.4444E-03	0.1757E-03
12	-0.7109E-02	-0.7037E-02	-0.1433E-01	-0.3352E-04	-0.4749E-03	0.3137E-03
9007	-0.7746E-02	-0.6858E-02	-0.1415E-01	-0.2805E-04	-0.4808E-03	0.3672E-03
9008	-0.8286E-02	-0.6309E-02	-0.1352E-01	-0.2435E-04	-0.4869E-03	0.4170E-03
13	-0.8505E-02	-0.5473E-02	-0.1261E-01	-0.2246E-04	-0.4915E-03	0.4575E-03
14	-0.8504E-02	-0.4163E-02	-0.1125E-01	-0.2057E-04	-0.4928E-03	0.4771E-03
15	-0.8501E-02	-0.1238E-02	-0.8297E-02	-0.1646E-04	-0.4850E-03	0.4721E-03
16	-0.8494E-02	0.4566E-02	-0.2008E-02	-0.6909E-05	-0.3932E-03	0.3427E-03
17	-0.8882E-02	0.5399E-02	-0.1036E-02	0.2344E-05	-0.3331E-03	0.2771E-03
18	-0.1032E-01	0.6494E-02	0.4094E-03	0.2276E-05	-0.2572E-03	0.1662E-03
19	-0.1175E-01	0.6991E-02	0.1854E-02	0.2137E-04	-0.1619E-03	-0.9850E-05
20	-0.1317E-01	0.6340E-03	0.3300E-02	0.1453E-03	-0.2913E-04	-0.5490E-03
21	-0.1067E-01	-0.1510E-02	0.4152E-02	0.2410E-03	-0.1608E-04	-0.7519E-03
9009	0.2179E-01	-0.1501E-02	0.1416E-01	0.1215E-03	-0.1734E-04	-0.5643E-03
9010	0.2426E-01	-0.1488E-02	0.9691E-02	-0.3173E-03	-0.1861E-04	0.4065E-03
22	0.3780E-02	-0.1471E-02	-0.5074E-02	-0.2848E-03	-0.1987E-04	0.2693E-03
23	0.2614E-02	-0.1467E-02	-0.7092E-02	-0.1846E-03	-0.2013E-04	-0.2198E-04
24	0.7289E-02	-0.1458E-02	-0.8397E-02	0.2300E-04	-0.2065E-04	-0.4663E-03
9011	0.2317E-01	-0.1437E-02	-0.2640E-01	0.2615E-03	-0.2170E-04	-0.2407E-03
9012	0.1591E-01	-0.1413E-02	0.5161E-02	0.1418E-03	-0.2275E-04	0.6694E-03
25	-0.1464E-01	-0.1386E-02	0.5013E-02	-0.1443E-03	-0.2380E-04	0.9473E-03
26	-0.2309E-01	-0.1378E-02	0.3305E-02	-0.2101E-03	-0.2410E-04	0.8091E-03
9013	-0.3609E-01	-0.1346E-02	-0.5168E-02	-0.1894E-03	-0.2522E-04	-0.1864E-03
9014	-0.1199E-01	-0.1311E-02	-0.7141E-02	0.8790E-04	-0.2633E-04	-0.1000E-02
27	0.2076E-01	-0.1273E-02	-0.1710E-02	0.1260E-03	-0.2745E-04	-0.6056E-03
28	0.2591E-01	-0.1258E-02	-0.7845E-03	-0.5954E-05	-0.2786E-04	-0.1529E-03
29	0.2222E-01	-0.1234E-02	-0.5153E-02	-0.2048E-03	-0.2849E-04	0.4786E-03
9015	-0.4128E-02	-0.1186E-02	-0.1250E-01	-0.2168E-03	-0.2967E-04	0.6642E-03
9016	-0.1542E-01	-0.1136E-02	-0.1614E-01	0.3329E-04	-0.3084E-04	-0.1283E-03
30	0.4129E-03	-0.1082E-02	-0.1293E-01	0.4490E-04	-0.3202E-04	-0.5086E-03
31	0.9218E-03	-0.1080E-02	-0.1288E-01	0.3763E-04	-0.3205E-04	-0.5023E-03
32	0.2174E-02	-0.1085E-02	-0.1284E-01	-0.4364E-05	-0.3749E-04	-0.4614E-03
35	0.2556E-02	-0.1011E-02	-0.1286E-01	-0.3341E-04	-0.5119E-04	-0.4218E-03
37	0.1985E-02	-0.7446E-03	-0.1265E-01	0.7959E-05	-0.9727E-04	-0.3153E-03
9017	-0.4739E-02	-0.5298E-02	-0.1282E-01	0.1930E-03	-0.2944E-03	0.9332E-04
9018	-0.1327E-01	-0.9373E-02	-0.1277E-01	0.1109E-04	-0.1304E-03	0.5020E-03
38	-0.7204E-02	-0.5149E-02	-0.1271E-01	-0.2531E-03	0.6011E-03	0.9107E-03
39	0.7632E-03	-0.2210E-02	-0.1269E-01	-0.3069E-03	0.9455E-03	0.1042E-02
9019	0.4082E-01	0.7740E-02	-0.1261E-01	-0.1911E-03	0.1011E-02	0.1472E-02
40	0.5416E-01	0.7213E-02	-0.1251E-01	0.2484E-03	-0.3162E-03	0.1902E-02

41	0.3116E-01	-0.6193E-02	-0.1242E-01	0.6455E-03	-0.1009E-02	0.2273E-02
43	0.2738E-01	-0.7029E-04	-0.8743E-02	0.7468E-03	-0.8581E-03	0.2350E-02
44	0.2738E-01	0.3324E-02	-0.7452E-02	0.7695E-03	-0.8606E-03	0.2363E-02
45	0.2737E-01	0.1243E-01	-0.4354E-02	0.8296E-03	-0.7191E-03	0.2371E-02
9020	0.2727E-01	0.6621E-01	0.1752E-03	0.1279E-02	0.3089E-03	0.9675E-03
46	0.2714E-01	0.5402E-01	-0.1725E-01	0.1725E-02	0.8235E-03	-0.1828E-02
47	0.2713E-01	0.4808E-01	-0.1976E-01	0.1776E-02	0.8499E-03	-0.2123E-02
91	0.3360E-01	0.4808E-01	-0.1435E-01	0.1548E-02	0.8367E-03	-0.2229E-02
92	0.6236E-01	0.4808E-01	0.8380E-02	0.2078E-02	0.7419E-03	-0.2816E-02
93	0.7618E-01	0.4049E-01	0.1613E-01	0.1947E-02	0.6925E-03	-0.3127E-02
94	0.7836E-01	0.3427E-01	0.1614E-01	0.1860E-02	0.6443E-03	-0.3262E-02
95	0.8118E-01	0.2514E-01	0.1616E-01	0.1752E-02	0.5500E-03	-0.3471E-02
96	0.8387E-01	0.1674E-01	0.1616E-01	0.1557E-02	0.5178E-03	-0.3679E-02
97	0.8399E-01	0.1634E-01	0.1616E-01	0.1545E-02	0.5199E-03	-0.3680E-02
98	0.7168E-01	0.1132E-01	0.1164E-01	0.9191E-03	0.7149E-03	-0.3673E-02
100	0.5414E-01	0.1130E-01	0.8306E-02	0.6691E-03	0.9055E-03	-0.3841E-02
101	0.4267E-01	0.1129E-01	0.6545E-02	0.5214E-03	0.1039E-02	-0.3741E-02
102	0.2874E-01	0.1128E-01	0.5019E-02	0.3046E-03	0.7022E-03	-0.3541E-02
113	0.5336E-01	0.7577E-02	0.6548E-02	0.7521E-03	0.2766E-02	-0.3266E-02
114	0.6771E-01	0.4026E-02	0.6551E-02	0.8913E-03	0.3794E-02	-0.2824E-02
115	0.8534E-01	0.6033E-04	0.6551E-02	0.9376E-03	0.4397E-02	-0.2382E-02
116	0.1145E+00	-0.5587E-02	0.6551E-02	0.8088E-03	0.4810E-02	-0.1731E-02
118	0.1287E+00	-0.7204E-02	0.7977E-02	0.5201E-03	0.4831E-02	-0.1260E-02
9023	0.1103E+00	-0.7256E-02	0.4704E-02	-0.6332E-03	0.4909E-02	0.2984E-02
120	-0.1927E-01	-0.7295E-02	-0.1704E-01	-0.6906E-03	9.4987E-02	0.4839E-02
122	-0.1856E-01	-0.6225E-02	-0.1824E-01	-0.4235E-03	0.5071E-02	0.4441E-02
124	0.3141E-02	-0.4631E-02	-0.1824E-01	-0.3536E-03	0.5226E-02	0.3994E-02
125	0.5733E-01	-0.1004E-02	-0.1824E-01	-0.4255E-03	0.5280E-02	0.2924E-02
127	0.7487E-01	0.6431E-04	-0.1706E-01	-0.5796E-03	0.4955E-02	0.2429E-02
129	0.9201E-01	0.3795E-04	-0.7362E-03	-0.4014E-03	0.2921E-02	-0.1605E-02
9024	0.3930E-01	0.1898E-04	0.1513E-02	0.6648E-04	0.1461E-02	-0.3292E-02
130	0.2161E-08	0.4150E-09	0.2191E-09	0.2518E-10	0.8296E-10	-0.4430E-09
48	0.2711E-01	0.4159E-01	-0.2241E-01	0.1611E-02	0.8762E-03	-0.2181E-02
49	0.2707E-01	0.3049E-01	-0.2682E-01	0.1335E-02	0.8405E-03	-0.2232E-02
50	0.2703E-01	0.1927E-01	-0.3061E-01	0.1060E-02	0.7313E-03	-0.2185E-02
51	0.2701E-01	0.1599E-01	-0.3189E-01	0.9769E-03	0.6892E-03	-0.2143E-02
52	0.2696E 01	0.4722E-02	-0.3522E-01	0.6739E-03	0.5026E-03	-0.1882E-02
53	0.2672E-01	-0.2106E-01	-0.3562E-01	-0.6628E-03	-0.4919E-03	-0.1867E-03
54	0.2632E-01	0.1308E-01	-0.1438E-03	-0.2633E-02	-0.1200E-02	0.1858E-02
55	0.2631E-01	0.1449E-01	0.7584E-03	-0.2675E-02	-0.1197E-02	0.1886E-02
56	0.2209E-01	0.3306E-01	0.5159E-02	-0.3056E-02	-0.8914E-03	0.2201E-02
57	0.2014E-01	0.4004E-01	0.5161E-02	-0.3124E-02	-0.7029E-03	0.2277E-02
58	0.1898E-01	0.4636E-01	0.5163E-02	-0.3172E-02	-0.5153E-03	0.2345E-02
59	0.1788E-01	0.5599E-01	0.5165E-02	-0.3222E-02	-0.2843E-03	0.2446E-02
103	0.1780E-01	0.4586E-01	0.4522E-02	-0.3220E-02	0.5629E-04	0.3286E-02
104	0.1794E-01	0.7773E-02	0.8002E-02	-0.3209E-02	0.3967E-03	0.4210E-02
105	0.1796E-01	-0.4174E-02	0.8891E-02	-0.3206E-02	0.5482E-03	0.3673E-02
106	0.1797E-01	-0.1415E-01	0.8970E-02	-0.3202E-02	-0.1003E-03	0.2991E-02
107	0.1799E-01	-0.4051E-01	0.5827E-02	-0.3189E-02	-0.1548E-03	0.2162E-02
109	0.1793E-01	-0.3908E-01	0.5687E-02	-0.3161E-02	0.4020E-05	0.2451E-02
111	0.1805E-01	-0.2895E-01	0.5684E-02	-0.2745E-02	0.2135E-05	0.3006E-02
112	0.1801E-01	-0.2526E-01	0.5663E-02	-0.2430E-02	-0.9237E-04	0.3239E-02
60	0.1735E-01	0.6574E-01	0.5167E-02	-0.3248E-02	-0.1278E-03	0.2530E-02
61	0.1721E-01	0.7552E-01	0.5168E-02	-0.3249E-02	-0.2349E-04	0.2613E-02
62	0.1721E-01	0.7634E-01	0.5168E-02	-0.3247E-02	-0.1732E-04	0.2620E-02
63	0.1746E-01	0.7809E-01	0.5465E-02	-0.3130E-02	0.7844E-04	0.2862E-02
64	0.1752E-01	0.4444E-01	0.6193E-02	-0.2934E-02	0.3933E-04	0.3298E-02
65	0.1754E-01	0.2737E-01	0.6310E-02	-0.2845E-02	0.1864E-05	0.3557E-02
131	0.5905E-02	0.2738E-01	-0.2969E-02	-0.2869E-02	0.1864E-05	0.3569E-02
132	-0.5706E-02	0.2739E-01	-0.1239E-01	-0.2889E-02	0.1864E-05	0.3570E-02
66	0.1758E-01	0.9159E-02	0.6212E-02	-0.2663E-02	-0.4144E-04	0.3605E-02
67	0.1761E-01	-0.6060E-02	0.5957E-02	-0.2508E-02	-0.7842E-04	0.3460E-02
68	0.1764E-01	-0.1629E-01	0.5682E-02	-0.2398E-02	-0.1041E-03	0.3256E-02
69	0.1766E-01	-0.2576E-01	0.5322E-02	-0.2273E-02	-0.1332E-03	0.2975E-02
70	0.1768E-01	-0.3224E-01	0.4997E-02	-0.2179E-02	-0.1533E-03	0.2707E-02
71	0.1772E-01	-0.4419E-01	0.4122E-02	-0.1971E-02	-0.1922E-03	0.1957E-02
133	0.1126E-01	-0.4420E-01	-0.2300E-02	-0.1985E-02	-0.1922E-03	0.1966E-02
134	0.4907E-02	-0.4422E-01	-0.8819E-02	-0.1999E-02	-0.1922E-03	0.1958E-02
72	0.1780E-01	-0.5145E-01	0.3073E-02	-0.1712E-02	-0.2130E-03	0.9804E-03
73	0.1811E-01	-0.3309E-01	0.8746E-04	-0.5587E-03	0.5335E-04	-0.2302E-02
74	0.1817E-01	-0.2697E-01	0.2914E-03	-0.4292E-03	0.1201E-03	-0.2556E-02
75	0.1824E-01	-0.1297E-01	0.1245E-02	-0.1699E-03	0.2747E-03	-0.2981E-02
76	0.1830E-01	0.2861E-02	0.3041E-02	0.8942E-04	0.4585E-03	-0.3269E-02
77	0.1834E-01	0.1127E-01	0.4302E-02	0.2189E-03	0.5618E-03	-0.3399E-02
78	0.1834E-01	0.2422E-01	0.6342E-02	0.1540E-03	0.4576E-03	-0.3057E-02
9021	0.1838E-01	0.7676E-01	0.1014E-01	-0.3098E-03	-0.1455E-03	-0.6345E-03
79	0.1840E-01	0.6897E-01	0.1988E-02	-0.7736E-03	-0.3169E-03	0.6785E-03
80	0.1840E-01	0.5840E-01	-0.1079E-02	-0.9498E-03	-0.2210E-03	0.1007E-02
81	0.1840E-01	0.5568E-01	-0.1631E-02	-0.9934E-03	-0.1810E-03	0.1001E-02
82	0.1862E-01	0.4803E-01	-0.2067E-02	-0.1076E-02	0.1558E-04	0.9344E-03
9022	0.1292E-01	0.2096E-01	-0.2086E-02	-0.9269E-03	0.3831E-03	0.5708E-03
83	0.2292E-02	0.3435E-02	-0.2106E-02	-0.4235E-03	0.3490E-03	0.2071E-03
84	0.1504E-02	0.2505E-02	-0.2108E-02	-0.3730E-03	0.3187E-03	0.1740E-03
85	0.9865E-03	0.1913E-02	-0.2109E-02	-0.3368E-03	0.2942E-03	0.1503E-03
86	-0.7821E-04	0.8404E-04	-0.5603E-03	-0.1195E-03	0.1060E-03	0.3984E-04
87	0.5828E-09	0.2521E-10	0.6853E-09	-0.7883E-10	0.7015E-10	0.1739E-10

COUPLED MODE SHAPES (FOR PRIMARY MODE) MODE 3
FREQUENCY (HZ.) = 32.51754

MODAL DISP AT PRIMARY SYSTEM CONNETING DOF

DOF #	DISPLACEMENT
3041	0.3706E-01
3042	0.0000E+00
3043	0.4355E-05
3061	0.5596E-01
3063	0.1463E-04
3072	0.0000E+00

3081	0.4733E-01
3103	0.5268E-04
3121	-0.2647E-01
3122	0.0000E+00
3123	0.6874E-04
3091	0.3702E-01
3092	0.0000E+00
3093	0.3264E-04

MODAL DISPLACEMENTS AT SECONDARY SYSTEM DOF

MODE	DX	DY	DZ	ROT-X	ROT-Y	ROT-Z
1	-0.1208E-08	-0.3300E-09	-0.2217E-10	-0.6719E-11	0.1214E-09	-0.2279E-10
2	-0.2742E-03	-0.5926E-04	-0.2647E-03	0.3560E-05	0.9297E-04	-0.1751E-04
3	-0.1021E-02	-0.1288E-03	-0.2082E-02	0.6603E-04	0.1285E-03	0.1383E-04
4	-0.1059E-02	0.3810E-02	-0.5002E-02	0.2127E-03	0.9368E-04	0.3439E-03
5	-0.1074E-02	0.1029E-01	-0.6207E-02	0.2465E-03	0.9140E-04	0.6471E-03
9001	-0.1438E-02	0.1159E-01	-0.6231E-02	0.2974E-03	0.9342E-04	0.7435E-03
9002	-0.2536E-02	0.1267E-01	-0.5942E-02	0.3092E-03	0.9506E-04	0.8379E-03
6	-0.4203E-02	0.1311E-01	-0.5397E-02	0.3218E-03	0.9777E-04	0.9241E-03
7	-0.6352E-02	0.1311E-01	-0.4662E-02	0.3291E-03	0.1019E-03	0.9701E-03
9003	-0.4162E-01	0.1308E-01	0.6864E-02	0.2228E-03	0.1698E-03	0.5754E-03
9004	-0.3736E-01	0.1304E-01	0.8989E-02	-0.1111E-03	0.2377E-03	-0.7602E-03
9	-0.2005E-02	0.1297E-01	0.1637E-02	-0.2002E-03	0.3055E-03	-0.7400E-03
10	0.2033E-02	0.1296E-01	0.4614E-03	-0.1621E-03	0.3173E-03	-0.5336E-03
9005	0.6022E-02	0.1288E-01	-0.1261E-02	0.4177E-04	0.3749E-03	0.1926E-03
9006	-0.4026E-02	0.1279E-01	0.2109E-02	0.1508E-03	0.4326E-03	0.3301E-03
11	-0.8409E-02	0.1269E-01	0.6986E-02	0.1439E-03	0.4902E-03	-0.1432E-03
12	-0.5445E-02	0.1265E-01	0.8436E-02	0.1277E-03	0.5100E-03	-0.4177E-03
9007	-0.4566E-02	0.1240E-01	0.8414E-02	0.1335E-03	0.5140E-03	-0.5146E-03
9008	-0.3794E-02	0.1161E-01	0.7871E-02	0.1202E-03	0.5183E-03	-0.5976E-03
13	-0.3477E-02	0.1039E-01	0.6954E-02	0.1181E-03	0.5221E-03	-0.6550E-03
14	-0.3477E-02	0.8510E-02	0.5512E-02	0.1156E-03	0.5238E-03	-0.6696E-03
15	-0.3479E-02	0.4562E-02	0.2364E-02	0.1101E-03	0.5220E-03	-0.5807E-03
16	-0.3480E-02	-0.9478E-03	-0.4707E-02	0.9751E-04	0.4797E-03	-0.2296E-03
17	-0.2973E-02	-0.1510E-02	-0.5945E-02	0.8507E-04	0.4506E-03	-0.1219E-03
18	-0.8631E-03	-0.2189E-02	-0.8057E-02	0.1135E-03	0.4092E-03	0.3161E-04
19	0.1757E-02	-0.2282E-02	-0.1068E-01	0.1825E-03	0.3457E-03	0.2205E-03
20	0.6889E-02	-0.9430E-03	-0.1581E-01	0.5319E-03	0.2361E-03	0.5528E-03
21	0.5350E-02	-0.9952E-03	-0.1406E-01	0.6820E-03	0.2173E-03	0.5790E-03
9009	-0.1502E-01	-0.9774E-03	0.1488E-01	0.4979E-03	0.2312E-03	0.3073E-03
9010	-0.1536E-01	-0.9580E-03	0.1606E-01	-0.4306E-03	0.2452E-03	-0.2631E-03
22	-0.2343E-02	-0.9369E-03	-0.8631E-02	-0.5226E-03	0.2592E-03	-0.1963E-03
23	-0.1308E-02	-0.9322E-03	-0.1238E-01	-0.3463E-03	0.2622E-03	-0.3427E-04
24	-0.3220E-02	-0.9227E-03	-0.1487E-01	0.4293E-04	0.2679E-03	0.2300E-03
9011	-0.1292E-01	-0.9024E-03	-0.3443E-02	0.5341E-03	0.2795E-03	0.2333E-03
9012	-0.1447E-01	-0.8810E-03	0.1307E-01	0.3170E-03	0.2911E-03	-0.1609E-03
25	-0.3857E-02	-0.8586E-03	0.1335E-01	-0.3018E-03	0.3028E-03	-0.4012E-03
26	-0.4721E-04	-0.8520E-03	0.9685E-02	-0.4591E-03	0.3061E-03	-0.3819E-03
9013	0.9957E-02	-0.8268E-03	-0.9972E-02	-0.4814E-03	0.3144E-03	-0.1099E-03
9014	0.6973E-02	-0.8004E-03	-0.1721E-01	0.1187E-03	0.3308E-03	0.2381E-03
27	-0.2734E-02	-0.7730E-03	-0.5472E-02	0.3813E-03	0.3431E-03	0.2256E-03
28	-0.5015E-02	-0.7625E-03	-0.1256E-02	0.2193E-03	0.3477E-03	0.1107E-03
29	-0.5337E-02	-0.7480E-03	-0.5674E-04	-0.6773E-04	0.3547E-03	-0.7087E-04
9015	0.3512E-03	-0.7144E-03	-0.6110E-02	-0.1569E-03	0.3677E-03	-0.1613E-03
9016	0.2970E-02	-0.6817E-03	-0.7825E-02	0.7660E-04	0.3807E-03	0.5389E-04
30	-0.3944E-02	-0.6481E-03	-0.3308E-02	0.7143E-04	0.3937E-03	0.2913E-03
31	-0.4237E-02	-0.6471E-03	-0.3238E-02	0.6376E-04	0.3941E-03	0.2957E-03
32	-0.4618E-02	-0.6820E-03	-0.3123E-02	0.1987E-04	0.3927E-03	0.3191E-03
35	-0.3937E-02	-0.6700E-03	-0.3118E-02	-0.1683E-04	0.3904E-03	0.3387E-03
37	-0.6600E-03	-0.4127E-03	-0.3114E-02	-0.2101E-04	0.3830E-03	0.3918E-03
9017	0.8989E-02	-0.1319E-02	-0.3097E-02	0.5360E-04	0.1497E-03	0.5954E-03
9018	0.7919E-02	-0.2700E-02	-0.3076E-02	0.1592E-04	-0.1895E-03	0.7989E-03
38	0.9724E-03	-0.1923E-02	-0.3052E-02	-0.6229E-04	-0.1251E-03	0.1003E-02
39	0.4248E-03	-0.1163E-02	-0.3044E-02	-0.8260E-04	0.3732E-04	0.1068E-02
9019	0.8701E-02	0.1663E-02	-0.3013E-02	-0.5390E-04	0.3197E-03	0.1282E-02
40	0.1613E-01	0.9791E-03	-0.2978E-02	0.1125E-03	0.5515E-04	0.1496E-02
41	0.1363E-01	-0.5423E-02	-0.2946E-02	0.3336E-03	-0.1697E-03	0.1681E-02
43	0.1297E-01	-0.4077E-03	-0.2288E-02	0.4124E-03	-0.1557E-03	0.1714E-02
44	0.1297E-01	0.2065E-02	-0.2062E-02	0.4305E-03	-0.1461E-03	0.1719E-02
45	0.1296E-01	0.8663E-02	-0.1552E-02	0.4771E-03	-0.1056E-03	0.1715E-02
9020	0.1252E-01	0.4710E-01	-0.3140E-02	0.8264E-03	0.1835E-03	0.6933E-03
46	0.1287E-01	0.4029E-01	-0.1082E-01	0.1176E-02	0.3425E-03	-0.1188E-02
47	0.1286E-01	0.3642E-01	-0.1187E-01	0.1212E-02	0.3562E-03	-0.1382E-02
91	0.1704E-01	0.3643E-01	-0.8171E-02	0.1266E-02	0.3336E-03	-0.1415E-02
92	0.3408E-01	0.3643E-01	0.7486E-02	0.1430E-02	0.1706E-03	-0.1594E-02
93	0.4064E-01	0.3125E-01	0.1280E-01	0.1330E-02	0.7391E-04	-0.1683E-02
94	0.4082E-01	0.2700E-01	0.1281E-01	0.1288E-02	0.3361E-04	-0.1727E-02
95	0.4083E-01	0.2072E-01	0.1282E-01	0.1219E-02	-0.2621E-04	-0.1795E-02
96	0.4056E-01	0.1480E-01	0.1283E-01	0.1120E-02	-0.3381E-04	-0.1863E-02
97	0.4055E-01	0.1452E-01	0.1283E-01	0.1113E-02	-0.3159E-04	-0.1866E-02
98	0.3344E-01	0.1074E-01	0.9408E-02	0.7936E-03	0.1396E-03	-0.1883E-02
100	0.2501E-01	0.1073E-01	0.6141E-02	0.6724E-03	0.2891E-03	-0.1811E-02
101	0.1966E-01	0.1073E-01	0.4242E-02	0.6052E-03	0.3887E-03	-0.1711E-02
102	0.1343E-01	0.1072E-01	0.2218E-02	0.4811E-03	0.2528E-03	-0.1523E-02
113	0.2430E-01	0.6493E-02	0.4245E-02	0.8401E-03	0.1283E-02	-0.1541E-02
114	0.3108E-01	0.2569E-02	0.4248E-02	0.9788E-03	0.1803E-02	-0.1383E-02
115	0.3948E-01	-0.1772E-02	0.4250E-02	0.1034E-02	0.2094E-02	-0.1224E-02
116	0.5332E-01	-0.8160E-02	0.4251E-02	0.9635E-03	0.2261E-02	-0.9913E-03
118	0.6041E-01	-0.1019E-01	0.6156E-02	0.7681E-03	0.2225E-02	-0.8083E-03
9023	0.5792E-01	-0.1023E-01	0.1274E-01	-0.3208E-03	0.1881E-02	0.1265E-02
120	-0.3352E-02	-0.1025E-01	-0.5550E-02	-0.7058E-03	0.1536E-02	0.2553E-02
122	-0.5083E-02	-0.6784E-02	-0.7071E-02	-0.6219E-03	0.1526E-02	0.2165E-02
124	0.1414E-02	-0.6265E-02	-0.7073E-02	-0.5735E-03	0.1571E-02	0.1946E-02
125	0.1787E-01	-0.9846E-03	-0.7075E-02	-0.4630E-03	0.1612E-02	0.1421E-02
127	0.2430E-01	-0.7304E-05	-0.6146E-02	-0.3865E-03	0.1508E-02	0.1188E-02
129	0.3500E-01	-0.4327E-05	-0.5045E-04	-0.9714E-04	0.8890E-03	-0.5433E-03
9024	0.1528E-01	-0.2165E-05	0.4293E-03	0.2119E-04	0.4445E-03	-0.1268E-02
130	0.8656E-09	-0.4734E-10	0.5696E-10	0.6834E-11	0.2524E-10	-0.1737E-09

48	0.1285E-01	0.3208E-01	-0.1303E-01	0.1091E-02	0.3919E-03	-0.1494E-02
49	0.1284E-01	0.2418E-01	-0.1509E-01	0.8876E-03	0.3980E-03	-0.1633E-02
50	0.1282E-01	0.1575E-01	-0.1701E-01	0.6866E-03	0.3550E-03	-0.1683E-02
51	0.1281E-01	0.1320E-01	-0.1754E-01	0.6237E-03	0.3360E-03	-0.1674E-02
52	0.1279E-01	0.4159E-02	-0.1917E-01	0.4006E-03	0.2447E-03	-0.1551E-02
53	0.1268E-01	-0.2220E-01	-0.1897E-01	-0.5838E-03	-0.2779E-03	-0.5922E-03
54	0.1250E-01	-0.2166E-01	0.1160E-03	-0.2035E-02	-0.6170E-03	0.4503E-03
55	0.1249E-01	-0.2131E-01	0.5802E-03	-0.2065E-02	-0.6134E-03	0.4611E-03
56	0.1041E-01	-0.1096E-01	0.2794E-02	-0.2333E-02	-0.4303E-03	0.5736E-03
57	0.9478E-02	-0.5638E-02	0.2796E-02	-0.2381E-02	-0.3335E-03	0.5911E-03
58	0.8938E-02	-0.8230E-03	0.2797E-02	-0.2413E-02	-0.2385E-03	0.6067E-03
59	0.8447E-02	0.6499E-02	0.2799E-02	-0.2445E-02	-0.1226E-03	0.6300E-03
103	0.8454E-02	0.3621E-02	0.2557E-02	-0.2419E-02	0.5017E-04	0.1061E-02
104	0.8462E-02	-0.9662E-02	0.4496E-02	-0.2313E-02	0.2216E-03	0.1405E-02
105	0.8490E-02	-0.1341E-01	0.5014E-02	-0.2279E-02	0.1088E-03	0.1053E-02
106	0.8495E-02	-0.1593E-01	0.5135E-02	-0.2244E-02	-0.2039E-04	0.6411E-03
107	0.8511E-02	-0.1918E-01	0.4085E-02	-0.2113E-02	-0.1069E-04	0.3062E-03
109	0.8589E-02	-0.1658E-01	0.4120E-02	-0.2079E-02	0.7360E-04	0.5471E-03
111	0.8847E-02	-0.9941E-02	0.4119E-02	-0.1800E-02	0.3178E-04	0.9932E-03
112	0.8845E-02	-0.7519E-02	0.4118E-02	-0.7599E-02	-0.5095E-04	0.1181E-02
60	0.8248E-02	0.1389E-01	0.2800E-02	-0.2455E-02	-0.3883E-04	0.6440E-03
61	0.8260E-02	0.2127E-01	0.2802E-02	-0.2442E-02	0.1840E-04	0.6580E-03
62	0.8268E-02	0.2184E-01	0.2802E-02	-0.2440E-02	0.2196E-04	0.6591E-03
63	0.8538E-02	0.2829E-01	0.3122E-02	-0.2308E-02	0.9071E-04	0.7378E-03
64	0.8562E-02	0.1911E-01	0.4074E-02	-0.2064E-02	0.6554E-04	0.9877E-03
65	0.8572E-02	0.1375E-01	0.4332E-02	-0.1952E-02	0.3071E-04	0.1176E-02
131	0.4703E-02	0.1375E-01	-0.2027E-02	-0.1965E-02	0.3071E-04	0.1182E-02
132	0.8648E-03	0.1376E-01	-0.8469E-02	-0.1976E-02	0.3071E-04	0.1181E-02
66	0.8598E-02	0.7530E-02	0.4381E-02	-0.1800E-02	-0.9322E-05	0.1258E-02
67	0.8620E-02	0.2108E-02	0.4272E-02	-0.1671E-02	-0.4041E-04	0.1247E-02
68	0.8635E-02	-0.1615E-02	0.4118E-02	-0.1579E-02	-0.6047E-04	0.1194E-02
69	0.8651E-02	-0.5126E-02	0.3899E-02	-0.1478E-02	-0.8214E-04	0.1106E-02
70	0.8662E-02	-0.7560E-02	0.3695E-02	-0.1403E-02	-0.9659E-04	0.1021E-02
71	0.8688E-02	-0.1211E-01	0.3136E-02	-0.1235E-02	-0.1228E-03	0.7567E-03
133	0.6177E-02	-0.1213E-01	-0.8874E-03	-0.1242E-02	-0.1228E-03	0.7606E-03
134	0.3726E-02	-0.1214E-01	-0.4956E-02	-0.1240E-02	-0.1228E-03	0.7558E-03
72	0.8733E-02	-0.1493E-01	0.2467E-02	-0.1037E-02	-0.1383E-03	0.3762E-03
73	0.8930E-02	-0.7414E-02	-0.7087E-04	-0.1598E-03	-0.3857E-04	-0.9323E-03
74	0.8952E-02	-0.4933E-02	-0.1386E-03	-0.6124E-04	-0.9626E-05	-0.1038E-02
75	0.8994E-02	0.7601E-03	-0.3137E-04	0.1361E-03	0.6046E-04	-0.1217E-02
76	0.9034E-02	0.7245E-02	0.4671E-03	0.3335E-03	0.1668E-03	-0.1355E-02
77	0.9053E-02	0.1072E-01	0.8881E-03	0.4321E-03	0.1961E-03	-0.1409E-02
78	0.9057E-02	0.1579E-01	0.1615E-02	0.4344E-03	0.1668E-03	-0.1124E-02
9021	0.9078E-02	0.2165E-01	0.3680E-02	0.4507E-03	-0.1199E-04	0.6133E-03
79	0.9091E-02	-0.1060E-01	0.2060E-02	0.4670E-03	-0.6850E-04	0.1408E-02
80	0.9093E-02	-0.2599E-01	0.1439E-02	0.4732E-03	-0.3757E-04	0.1347E-02
81	0.9091E-02	-0.2969E-01	0.1352E-02	0.4748E-03	-0.2454E-04	0.1360E-02
82	0.9036E-02	-0.3280E-01	0.1339E-02	0.5032E-03	0.4186E-04	0.1237E-02
9022	0.6014E-02	-0.1868E-01	0.1332E-02	0.6028E-03	0.1814E-03	0.7593E-03
83	0.9237E-03	-0.3598E-02	0.1324E-02	0.4967E-03	0.1770E-03	0.2815E-03
84	0.5203E-03	-0.2468E-02	0.1323E-02	0.4652E-03	0.1657E-03	0.2340E-03
85	0.2490E-03	-0.1707E-02	0.1321E-02	0.4403E-03	0.1565E-03	0.2069E-03
86	-0.1069E-03	0.1043E-03	0.4495E-03	0.2195E-03	0.7237E-04	0.5207E-04
87	0.2342E-09	-0.5026E-09	0.2941E-09	0.1630E-09	0.2389E-10	0.2250E-10

COUPLED MODE SHAPES (FOR SECONDARY MODE) MODE 4
FREQUENCY (HZ.) = 1.31452

MODAL DISP AT PRIMARY SYSTEM CONNETING DOF

DOF #	DISPLACEMENT
3041	0.3762E-06
3042	0.0000E+00
3043	0.1780E-06
3061	0.1096E-05
3063	0.5963E-06
3072	0.0000E+00
3081	0.1976E-05
3103	0.2154E-05
3121	0.4474E-05
3122	0.0000E+00
3123	0.2811E-05
3091	0.2372E-05
3092	0.0000E+00
3093	0.1335E-05

MODAL DISPLACEMENTS AT SECONDARY SYSTEM DOF

MODE	DX	DY	DZ	ROT-X	ROT-Y	ROT-Z
1	0.2094E-09	-0.5224E-09	-0.1785E-08	-0.4380E-09	-0.2161E-09	-0.2771E-09
2	0.5525E-03	-0.1694E-02	0.5305E-03	-0.4535E-03	-0.2556E-03	-0.2426E-03
3	0.3626E-02	-0.1347E-01	0.1040E-01	-0.1556E-02	-0.1204E-02	-0.6961E-03
4	0.3632E-02	-0.3908E-01	0.7872E-01	-0.3541E-02	-0.4273E-02	-0.1131E-02
5	0.3636E-02	-0.5447E-01	0.1503E+00	-0.4540E-02	-0.6533E-02	-0.1141E-02
9001	0.4205E-02	-0.5660E-01	0.1608E+00	-0.4645E-02	-0.7184E-02	-0.1122E-02
9002	0.5731E-02	-0.5813E-01	0.1646E+00	-0.4713E-02	-0.7753E-02	-0.1097E-02
6	0.7764E-02	-0.5868E-01	0.1596E+00	-0.4639E-02	-0.8260E-02	-0.1068E-02
7	0.1015E-01	-0.5868E-01	0.1486E+00	-0.4939E-02	-0.8837E-02	-0.1048E-02
9003	0.3984E-01	-0.5670E-01	-0.3901E-01	-0.4627E-02	-0.1826E-01	-0.4936E-03
9004	0.4140E-01	-0.5873E-01	-0.1478E+00	-0.6570E-03	-0.2769E-01	0.4806E-03
9	-0.5091E-03	-0.5875E-01	-0.4351E-01	0.6954E-02	-0.3711E-01	0.1868E-02
10	-0.1329E-01	-0.5875E-01	0.6044E-02	0.8641E-02	-0.3875E-01	0.2138E-02
9005	-0.9895E-01	-0.5877E-01	0.3881E+00	0.1507E-01	-0.4675E-01	0.3295E-02
9006	-0.2165E+00	-0.5879E-01	0.9056E+00	0.1731E-01	-0.5476E-01	0.4179E-02
11	-0.3576E+00	-0.5881E-01	0.1425E+01	0.1543E-01	-0.6277E-01	0.4808E-02
12	-0.4101E+00	-0.5881E-01	0.1566E+01	0.1385E-01	-0.6552E-01	0.4969E-02
9007	-0.4195E+00	-0.5630E-01	0.1645E+01	0.1329E-01	-0.6600E-01	0.5019E-02

9008	-0.4264E+00	-0.4938E-01	0.1754E+01	0.1283E-01	-0.6650E-01	0.5069E-02
13	-0.4290E+00	-0.3983E-01	0.1885E+01	0.1239E-01	-0.6710C-01	0.5124E-02
14	-0.4290E+00	-0.2566E-01	0.2071E+01	0.1173E-01	-0.6759E-01	0.5170E-02
15	-0.4290E+00	0.5662E-02	0.2479E+01	0.1030E-01	-0.6855E-01	0.5259E-02
16	-0.4290E+00	0.7933E-01	0.3449E+01	0.6954E-02	-0.7024E-01	0.5032E-02
17	-0.5065E+00	0.8527E-01	0.3615E+01	0.6240E-02	-0.7073E-01	0.4780E-02
18	-0.8546E+00	0.7971E-01	0.3984E+01	0.4844E-02	-0.7127E-01	0.3901E-02
19	-0.1351E+01	0.7406E-01	0.4480E+01	0.3206E-02	-0.7182E-01	0.2321E-02
20	-0.2675E+01	0.3329E-01	0.5804E+01	0.7805E-03	-0.7222E-01	-0.3769E-02
21	-0.2846E+01	0.1862E-01	0.5999E+01	0.1006E-02	-0.7187E-01	-0.6388E-02
9009	-0.2381E+01	0.1840E-01	0.6017E+01	-0.7405E-03	-0.7088E-01	-0.1672E-01
9010	-0.1517E+01	0.1895E-01	0.5900E+01	-0.5532E-02	-0.6973E-01	-0.3621E-01
22	-0.2969E+00	0.1917E-01	0.5552E+01	-0.1139E-01	-0.6866E-01	-0.3440E-01
23	0.2006E-02	0.1921E-01	0.5444E+01	-0.1347E-01	-0.6843E-01	-0.3595E-01
24	-0.6121E+00	0.1929E-01	0.5201E+01	-0.1628E-01	-0.6799E-01	-0.3843E-01
9011	0.1945E+01	0.1944E-01	0.4589E+01	-0.2139E-01	-0.6710E-01	-0.4081E-01
9012	0.3299E+01	0.1960E-01	0.3787E+01	-0.2520E-01	-0.6621E-01	-0.3976E-01
25	0.4565E+01	0.1975E-01	0.2907E+01	-0.2716E-01	-0.6531E-01	-0.3561E-01
26	0.4896E+01	0.1980E-01	0.2648E+01	-0.2733E-01	-0.6506E-01	-0.3391E-01
9013	0.5965E+01	0.1996E-01	0.1692E+01	-0.2616E-01	-0.6411E-01	-0.2606E-01
9014	0.6720E+01	0.2012E-01	0.6302E+00	-0.2196E-01	-0.6316E-01	-0.1635E-01
27	0.7113E+01	0.2029E-01	0.1739E+00	-0.1454E-01	-0.6222E-01	-0.5763E-02
28	0.7163E+01	0.2035E-01	0.4695E-02	-0.1091E-01	-0.6186E-01	-0.1769E-02
29	0.7140E+01	0.2044E-01	-0.1589E+00	-0.5655E-02	-0.6133E-01	0.3972E-02
9015	0.6816E+01	0.2061E-01	-0.2302E+00	0.1162E-02	-0.6033E-01	0.1287E-01
9016	0.6215E+01	0.2079E-01	-0.1203E+00	0.4041E-02	-0.5933E-01	0.1844E-01
30	0.5495E+01	0.2096E-01	0.2307E-01	0.2952E-02	-0.5833E-01	0.1947E-01
31	0.5476E+01	0.2096E-01	0.2600E-01	0.2869E-02	-0.5830E-01	0.1943E-01
32	0.5361E+01	0.1817E-01	0.3302E-01	0.2398E-02	-0.5819E-01	0.1916E-01
33	0.5188E+01	0.1249E-01	0.3548E-01	0.1959E-02	-0.5800E-01	0.1890E-01
37	0.4698E+01	-0.1765E-02	0.3550E-01	0.1537E-02	-0.5755E-01	0.1825E-01
9017	0.2900E+01	-0.3895E-01	0.3557E-01	0.7867E-03	-0.5256E-01	0.1572E-01
9018	0.1353E+01	-0.5458E-01	0.3565E-01	0.2063E-03	-0.4205E-01	0.1320E-01
38	0.2369E+00	-0.5411E-01	0.3572E-01	-0.2048E-03	-0.2576E-01	0.1067E-01
39	0.4300E-02	-0.5147E-01	0.3574E-01	-0.2994E-03	-0.1931E-01	0.9862E-02
9019	-0.3275E+00	-0.3766E-01	0.3582E-01	-0.4753E-03	-0.1808E-01	0.7206E-02
40	-0.2234E+00	-0.2144E-01	0.3590E-01	-0.4396E-03	0.6284E-02	0.4550E-02
41	-0.2911E-01	-0.1109E-01	0.3596E-01	-0.2351E-03	0.5671E-02	0.2254E-02
43	-0.9968E-02	-0.3240E-02	0.1865E-01	-0.8151E-04	0.3982E-02	0.1688E-02
44	-0.5959E-02	-0.8709E-03	0.1310E-01	-0.6204E-04	0.3753E-02	0.1601E-02
45	-0.9934E-02	0.4784E-02	-0.5078E-04	-0.1047E-04	0.3176E-02	0.1374E-02
9020	-0.9748E-02	0.2352E-01	-0.4158E-01	0.3754E-03	0.1317E-03	0.5763E-04
46	-0.9562E-02	0.1424E-01	-0.2828E-01	0.7613E-03	-0.6661E-03	-0.5803E-03
47	-0.9543E-02	0.1241E-01	-0.2632E-01	0.8018E-03	-0.6194E-03	-0.6196E-03
91	-0.7669E-02	0.1241E-01	-0.2388E-01	0.8205E-03	-0.5783E-03	-0.6281E-03
92	-0.5762E-03	0.1241E-01	-0.1449E-01	0.7770E-03	-0.2822E-03	-0.5952E-03
93	0.8536E-03	0.1005E-01	-0.1185E-01	0.5160E-03	-0.1267E-03	-0.4517E-03
94	0.5331E-03	0.8527E-02	-0.1185E-01	0.4219E-03	-0.8383E-04	-0.4277E-03
95	0.2521E-03	0.6786E-02	-0.1184E-01	0.2693E-03	-0.4463E-04	-0.3289E-03
96	0.8541E-04	0.5832E-02	-0.1183E-01	0.1075E-03	-0.3816E-04	-0.2301E-03
97	0.7715E-04	0.5806E-02	-0.1183E-01	0.9920E-04	-0.3869E-04	-0.2252E-03
98	-0.6410E-03	0.5925E-02	-0.1134E-01	-0.2339E-03	-0.7356E-04	-0.1088E-03
100	-0.1022E-02	0.5924E-02	-0.1002E-01	-0.3233E-03	-0.1157E-03	-0.7572E-04
101	-0.1219E-02	0.5923E-02	-0.8966E-02	-0.3551E-03	-0.1438E-03	-0.6840E-04
102	-0.1463E-02	0.5922E-02	-0.7528E-02	-0.3859E-03	-0.1805E-03	-0.7547E-04
113	-0.2066E-02	0.7773E-02	-0.8966E-02	-0.2384E-03	-0.1370E-03	-0.7055E-04
114	-0.2635E-02	0.8579E-02	-0.8966E-02	-0.1470E-03	-0.1312E-03	-0.7256E-04
115	-0.3181E-02	0.9032E-02	-0.8966E-02	-0.7221E-04	-0.1258E-03	-0.7457E-04
116	-0.3945E-02	0.9206E-02	-0.8966E-02	0.7412E-05	-0.1189E-03	-0.7752E-04
116	-0.4030E-02	0.9141E-02	-0.8872E-02	0.5875E-04	-0.1136E-03	-0.7978E-04
9023	-0.1738E-02	0.9132E-02	-0.4146E-02	0.2688E-03	-0.7805E-04	-0.7676E-04
120	0.1373E-03	0.9123E-02	0.6288E-02	0.4584E-03	-0.4254E-04	-0.5061E-04
122	0.1555E-03	0.8041E-02	0.7347E-02	0.4915E-03	-0.3823E-04	-0.4383E-04
124	0.1445E-05	0.5927E-02	0.7347E-02	0.5006E-03	-0.3470E-04	-0.3621E-04
125	-0.3161E-03	0.9933E-03	0.7347E-02	0.4544E-03	-0.2875E-04	-0.1800E-04
127	-0.4084E-03	0.1981E-04	0.6416E-02	0.3903E-03	-0.2624E-04	-0.1065E-04
129	-0.3529E-03	0.1168E-04	0.7351E-04	0.1045E-03	-0.1547E-04	0.1083E-04
9024	-0.1263E-03	0.5839E-05	-0.4463E-03	-0.2201E-04	-0.7735E-05	0.1151E-04
130	-0.4656E-11	0.1277E-09	-0.5925E-10	0.7107E-11	-0.4393E-12	0.1299E-11
48	-0.9527E-02	0.1055E-01	-0.2465E-01	0.7744E-03	-0.6197E-03	-0.6180E-03
49	-0.9499E-02	0.7473E-02	-0.2136E-01	0.7288E-03	-0.6143E-03	-0.6061E-03
50	-0.9472E-02	0.4486E-02	-0.1831E-01	0.6832E-03	-0.6015E-03	-0.5827E-03
51	-0.9464E-02	0.3616E-02	-0.1741E-01	0.6695E-03	-0.5962E-03	-0.5735E-03
52	-0.9433E-02	0.5651E-03	-0.1419E-01	0.6193E-03	-0.5710E-03	-0.5306E-03
53	-0.9301E-02	-0.1008E-01	-0.2617E-02	0.3980E-03	-0.3515E-03	-0.3672E-03
54	-0.9105E-02	-0.2168E-01	-0.4181E-03	0.7170E-04	0.2951E-03	-0.3203E-03
55	-0.9101E-02	-0.2192E-01	-0.6465E-03	0.6485E-04	0.3127E-03	-0.3217E-03
56	-0.7378E-02	-0.2325E-01	-0.2157E-02	0.4874E-05	0.4591E-03	-0.3363E-03
57	-0.6303E-02	-0.2324E-01	-0.2157E-02	-0.8981E-05	0.4349E-03	-0.3439E-03
58	-0.5473E-02	-0.2321E-01	-0.2157E-02	-0.2054E-04	0.3988E-03	-0.3506E-03
59	-0.4359E-02	-0.2312E-01	-0.2158E-02	-0.3654E-04	0.3479E-03	-0.3607E-03
103	-0.4354E-02	-0.2178E-01	-0.1011E-02	-0.4907E-04	0.2246E-03	-0.3590E-03
104	-0.4332E-02	-0.1845E-01	-0.5079E-03	-0.1001E-03	-0.5410E-04	-0.3620E-03
105	-0.4325E-02	-0.1735E-01	-0.7032E-03	-0.1166E-03	-0.6756E-04	-0.3662E-03
106	-0.4317E-02	-0.1625E-01	-0.8829E-03	-0.1330E-03	-0.4364E-04	-0.3715E-03
107	-0.4290E-02	-0.1184E-01	0.5905E-03	-0.1962E-03	0.3937E-03	-0.3953E-03
109	-0.3567E-02	-0.1094E-01	0.1259E-02	-0.2072E-03	0.4962E-03	-0.4007E-03
111	-0.2080E-02	-0.1022E-01	0.1258E-02	-0.2217E-03	0.2849E-03	-0.4110E-03
112	-0.1812E-02	-0.9903E-02	0.1258E-02	-0.2279E-03	0.5703E-04	-0.4153E-03
60	-0.3392E-02	-0.2299E-01	-0.2158E-02	-0.5079E-04	0.3045E-03	-0.3709E-03
61	-0.2545E-02	-0.2281E-01	-0.2158E-02	-0.6341E-04	0.2684E-03	-0.3810E-03
62	-0.2479E-02	-0.2280E-01	-0.2158E-02	-0.6439E-04	0.2657E-03	-0.3819E-03
63	-0.1633E-02	-0.2100E-01	-0.1400E-02	-0.1007E-03	0.1746E-03	-0.4081E-03
64	-0.1640E-02	-0.1640E-01	0.1231E-03	-0.1510E-03	0.1064E-03	-0.4259E-03
65	-0.1644E-02	-0.1426E-01	0.5876E-03	-0.1738E-03	0.8106E-04	-0.4298E-03
131	-0.2434E-03	-0.1426E-01	0.2216E-04	-0.1738E-03	0.8106E-04	-0.4302E-03
132	0.1156E-02	-0.1426E-01	-0.5432E-03	-0.1738E-03	0.8106E-04	-0.4302E-03
66	-0.1648E-02	-0.1211E-01	0.9344E-03	-0.1961E-03	0.5898E-04	-0.4262E-03
67	-0.1652E-02	-0.1031E-01	0.1147E-02	-0.2150E-03	0.4253E-04	-0.4207E-03
68	-0.1654E-02	-0.9054E-02	0.1258E-02	-0.2284E-03	0.3219E-04	-0.4156E-03
69	-0.1656E-02	-0.7814E-02	0.1324E-02	-0.2419E-03	0.1339E-04	-0.4094E-03

70	-0.1657E-02	-0.6858E-02	0.1338E-02	-0.2520E-03	0.2079E-06	-0.4041E-03
71	-0.1660E-02	-0.4907E-02	0.1268E-02	-0.2746E-03	-0.2628E-04	-0.3901E-03
133	-0.3876E-03	-0.4907E-02	0.1705E-03	-0.2753E-03	-0.2628E-04	-0.3908E-03
134	0.8833E-03	-0.4907E-02	-0.5249E-03	-0.2753E-03	-0.2628E-04	-0.3908E-03
72	-0.1665E-02	-0.3013E-02	0.1075E-02	-0.2881E-03	-0.5422E-04	-0.3656E-03
73	-0.1686E-02	0.3611E-02	-0.2158E-02	-0.3480E-03	-0.2611E-03	-0.2184E-03
74	-0.1686E-02	0.4113E-02	-0.2866E-02	-0.3547E-03	-0.2849E-03	-0.1980E-03
75	-0.1693E-02	0.5019E-02	-0.4375E-02	-0.3682E-03	-0.2910E-03	-0.1546E-03
76	-0.1697E-02	0.5681E-01	-0.5776E-02	-0.3817E-03	-0.2414E-03	-0.1082E-03
77	-0.1699E-02	0.5922E-02	-0.6348E-02	-0.3884E-03	-0.1958E-03	-0.8362E-04
78	-0.1699E-02	0.6244E-02	-0.7023E-02	-0.3792E-03	-0.1437E-03	-0.7752E-04
9021	-0.1696E-02	0.7926E-02	-0.6966E-02	-0.3133E-03	0.1116E-03	-0.4233E-04
79	-0.1693E-02	0.8796E-02	-0.2530E-02	-0.2474E-03	0.1621E-03	-0.2097E-04
80	-0.1691E-02	0.8997E-02	-0.9172E-03	-0.2223E-03	0.1275E-03	-0.1633E-04
81	-0.1691E-02	0.9039E-02	-0.5890E-03	-0.2161E-03	0.1143E-03	-0.1543E-04
82	-0.1976E-02	0.8321E-02	-0.2365E-03	-0.1999E-03	0.5359E-04	-0.1458E-04
9022	-0.1879E-02	0.3835E-02	-0.2334E-03	-0.1485E-03	-0.4460E-04	-0.5738E-05
83	-0.4485E-03	0.7848E-03	-0.2281E-03	-0.8786E-04	-0.5053E-04	0.3106E-05
84	-0.3339E-03	0.5867E-03	-0.2278E-03	-0.8187E-04	-0.4648E-04	0.3911E-05
85	-0.2581E-03	0.4536E-03	-0.2275E-03	-0.7754E-04	-0.4312E-04	0.4487E-05
86	-0.2505E-04	0.2425E-04	-0.9278E-04	-0.4256E-04	-0.1644E-04	0.6647E-05
87	-0.9363E-10	0.9606E-11	-0.16[illegible]-09	-0.3449E-10	-0.3299E-11	0.8455E-11

COUPLED MODE SHAPES (FOR SECONDA[illegible]N DE) MODE 5
FREQUENCY (HZ.) = 1.586

MODAL DISP AT PRIMARY SYSTEM CONNECTING DOF

DOF #	DISPLACEMENT
3041	-0.4219E-06
3042	0.0000E+00
3043	0.3131E-06
3061	-0.1289E-05
3063	0.1052E-05
3072	0.0000E+00
3081	-0.2387E-05
3103	0.3788E-05
3121	-0.5560E-05
3122	0.0000E+00
3123	0.4943E-05
3091	-0.2888E-05
3092	0.0000E+00
3093	0.2347E-05

MODAL DISPLACEMENTS AT SECONDARY SYSTEM DOF

NODE	DX	DY	DZ	ROT-X	ROT-Y	ROT-Z
1	-0.2144E-08	-0.1380E-06	-0.3584E-08	-0.6575E-09	0.1612E-08	-0.2707E-09
2	-0.3754E-02	-0.2174E-02	-0.3766E-02	-0.6883E-03	0.1488E-02	-0.1814E-03
3	-0.1816E-01	-0.1357E-01	-0.4486E-01	-0.2236E-02	0.3887E-02	-0.3445E-03
4	-0.1823E-01	-0.1695E-01	-0.1695E+00	-0.4888E-02	0.4808E-02	0.3480E-03
5	-0.1827E-01	-0.6830E-02	-0.2286E+00	-0.6222E-02	0.3836E-02	0.1250E-02
9001	-0.1900E-01	-0.4226E-02	-0.2387E+00	-0.6394E-02	0.3456E-02	0.1547E-02
9002	-0.2135E-01	-0.1915E-02	-0.2522E+00	-0.6549E-02	0.3115E-02	0.1846E-02
6	-0.2511E-01	-0.9375E-03	-0.2662E+00	-0.6734E-02	0.2794E-02	0.2133E-02
7	-0.3013E-01	-0.9412E-03	-0.2815E+00	-0.6844E-02	0.2417E-02	0.2298E-02
9003	-0.1357E+00	-0.1002E-02	-0.5204E+00	-0.4893E-02	-0.3733E-02	0.2689E-02
9004	-0.1758E+00	-0.1063E-02	-0.5557E+00	0.4190E-02	-0.9884E-02	-0.1250E-02
9	0.7984E-02	-0.1124E-02	-0.1278E+00	0.2026E-01	-0.1603E-01	-0.9480E-02
10	0.7401E-01	-0.1134E-02	0.1214E-01	0.2375E-01	-0.1710E-01	-0.1115E-01
9005	0.5111E+00	-0.1166E-02	0.9851E+00	0.3698E-01	-0.2232E-01	-0.1576E-01
9006	0.1001E+01	-0.1237E-02	0.2236E+01	0.4155E-01	-0.2755E-01	-0.1453E-01
11	0.1361E+01	-0.1289E-02	0.3497E+01	0.3769E-01	-0.3277E-01	-0.7513E-02
12	0.1422E+01	-0.1307E-02	0.3886E+01	0.3449E-01	-0.3457E-01	-0.3794E-02
9007	0.1428E+01	-0.2769E-02	0.3967E+01	0.3129E-01	-0.3482E-01	-0.2418E-02
9008	0.1431E+01	-0.5062E-02	0.4060E+01	0.3224E-01	-0.3500E-01	-0.1001E-02
13	0.1431E+01	-0.5578E-02	0.4142E+01	0.3128E-01	-0.3529E-01	0.4473E-03
14	0.1431E+01	-0.2825E-02	0.4239E+01	0.2995E-01	-0.3553E-01	0.1571E-02
15	0.1431E+01	0.1401E-01	0.4454E+01	0.2706E-01	-0.3586E-01	0.4075E-02
16	0.1431E+01	0.1065E+00	0.4954E+01	0.2032E-01	-0.3562E-01	0.8606E-02
17	0.1392E+01	0.1099E+00	0.5048E+01	0.1871E-01	-0.3522E-01	0.9845E-02
18	0.1221E+01	0.7526E-01	0.5220E+01	0.1631E-01	-0.3466E-01	0.1074E-01
19	0.9836E+00	0.4875E-01	0.5457E+01	0.1373E-01	-0.3378E-01	0.1118E-01
20	0.3873E+00	0.1215E-01	0.6053E+01	0.1155E-01	-0.3115E-01	0.7712E-02
21	0.2833E+00	-0.1337E-02	0.6181E+01	0.1255E-01	-0.3002E-01	0.5011E-02
9009	0.2357E+00	-0.8844E-03	0.6705E+01	0.1230E-01	-0.2428E-01	-0.1253E-02
9010	0.2783E+00	-0.4319E-03	0.7082E+01	0.5606E-02	-0.1854E-01	0.4985E-03
22	0.9140E-01	0.2067E-04	0.7099E+01	-0.5255E-02	-0.1281E-01	0.1018E-01
23	-0.7694E-02	0.1166E-03	0.7043E+01	-0.7910E-02	-0.1159E-01	0.1325E-01
24	-0.2729E+00	0.3014E-03	0.6872E+01	-0.1307E-01	-0.9246E-02	0.1695E-01
9011	-0.1058E+01	0.6782E-03	0.6266E+01	-0.2300E-01	-0.4468E-02	0.2730E-01
9012	-0.2048E+01	0.1055E-02	0.5355E+01	-0.3118E-01	0.3096E-03	0.3132E-01
25	-0.3103E+01	0.1432E-02	0.4216E+01	-0.3652E-01	0.5088E-02	0.3133E-01
26	-0.3399E+01	0.1539E-02	0.3864E+01	-0.3741E-01	0.6448E-02	0.3064E-01
9013	-0.4411E+01	0.1959E-02	0.2520E+01	-0.3767E-01	0.1152E-01	0.2589E-01
9014	-0.5199E+01	0.2339E-02	0.1256E+01	-0.3273E-01	0.1659E-01	0.1824E-01
27	-0.5682E+01	0.2739E-02	0.2665E+00	-0.2216E-01	0.2166E-01	0.8807E-02
28	-0.5774E+01	0.2868E-02	0.7832E-02	-0.1672E-01	0.2355E-01	0.5011E-02
29	-0.5818E+01	0.3114E-02	-0.2438E+00	-0.8772E-02	0.2642E-01	-0.5412E-03
9015	-0.5623E+01	0.3535E-02	-0.3632E+00	0.1305E-02	0.3176E-01	-0.9489E-02
9016	-0.5147E+01	0.3557E-02	-0.2228E+00	0.5126E-02	0.3711E-01	-0.1538E-01
30	-0.4530E+01	0.4378E-02	-0.5786E-01	0.2612E-02	0.4245E-01	-0.1677E-01
31	-0.4513E+01	0.4390E-02	-0.5531E-01	0.2457E-02	0.4259E-01	-0.1674E-01
32	-0.4432E+01	0.2357E-02	-0.4987E-01	0.1602E-02	0.4302E-01	-0.1658E-01
35	-0.4289E+01	-0.6682E-03	-0.4843E-01	0.8498E-03	0.4350E-01	-0.1642E-01
37	-0.3919E+01	-0.4446E-02	-0.4840E-01	0.3291E-03	0.4414E-01	-0.1585E-01
9017	-0.2490E+01	-0.1383E-01	-0.4828E-01	0.2459E-03	0.4313E-01	-0.1366E-01

9018	-0.1189E+01	-0.2008E-01	-0.4816E-01	0.1356E-03	0.3617E-01	-0.1147E-01
38	-0.2141E+00	-0.2236E-01	-0.4804E-01	0.1033E-05	0.2296E-01	-0.9274E-02
39	-0.4044E-02	-0.2212E-01	-0.4800E-01	-0.4671E-04	0.1737E-01	-0.8571E-02
9019	0.3009E+00	-0.1772E-01	-0.4788E-01	-0.2144E-03	0.1899E-02	-0.6265E-02
40	0.2131E+00	-0.7367E-02	-0.4775E-01	-0.3955E-03	-0.5680E-02	-0.3959E-02
41	0.2824E-01	0.6690E-02	-0.4764E-01	-0.5608E-03	-0.5829E-02	-0.1967E-02
43	0.7817E-02	0.2660E-02	-0.2858E-01	-0.6661E-03	-0.4547E-02	-0.1480E-02
44	0.7829E-02	0.5823E-03	-0.2215E-01	-0.6770E-03	-0.4342E-02	-0.1405E-02
45	0.7808E-02	-0.4392E-02	-0.6619E-02	-0.7056E-03	-0.3753E-02	-0.1211E-02
9020	0.7651E-02	-0.2126E-01	0.4519E-01	-0.9200E-03	-0.3121E-03	-0.6687E-04
46	0.7495E-02	-0.1321E-01	0.3382E-01	-0.1134E-02	0.6753E-03	0.5350E-03
47	0.7478E-02	-0.1155E-01	0.3181E-01	-0.1157E-02	0.6365E-03	0.5666E-03
91	0.5763E-02	-0.1155E-01	0.2831E-01	-0.1169E-02	0.5976E-03	0.5754E-03
92	-0.7700E-03	-0.1155E-01	0.1531E-01	-0.1062E-02	0.3180E-03	0.5512E-03
93	-0.1898E-02	-0.8321E-02	0.1171E-01	-0.7184E-03	0.1701E-03	0.4605E-03
94	-0.1432E-02	-0.6179E-02	0.1170E-01	-0.6002E-03	0.1292E-03	0.4034E-03
95	-0.9181E-03	-0.3636E-02	0.1169E-01	-0.4132E-03	0.9121E-04	0.3153E-03
96	-0.5183E-03	-0.2043E-02	0.1168E-01	-0.2206E-03	0.8359E-04	0.2272E-03
97	-0.4986E-03	-0.1988E-02	0.1168E-01	-0.2109E-03	0.8400E-04	0.2228E-03
98	0.4068E-03	-0.1773E-02	0.1167E-01	0.1769E-03	0.1139E-03	0.1195E-03
100	0.8496E-03	-0.1773E-02	0.1037E-01	0.2627E-03	0.1512E-03	0.9132E-04
101	0.1098E-02	-0.1772E-02	0.9418E-02	0.3223E-03	0.1760E-03	0.8619E-04
102	0.1414E-02	-0.1772E-02	0.8098E-02	0.3527E-03	0.2088E-03	0.9488E-04
113	0.2136E-02	-0.3507E-02	0.9418E-02	0.2383E-03	0.1681E-03	0.8769E-04
114	0.2836E-02	-0.4366E-02	0.9417E-02	0.1686E-03	0.1616E-03	0.8910E-04
115	0.3509E-02	-0.4945E-02	0.9417E-02	0.1071E-03	0.1554E-03	0.9050E-04
116	0.4454E-02	-0.5364E-02	0.9417E-02	0.3145E-04	0.1472E-03	0.9256E-04
118	0.4568E-02	-0.5382E-02	0.9399E-02	-0.2836E-04	0.1408E-03	0.9432E-04
9023	0.1912E-02	-0.5377E-02	0.5377E-02	-0.2320E-03	0.9812E-04	0.8753E-04
120	-0.2025E-03	-0.5373E-02	-0.2673E-02	-0.3101E-03	0.5541E-04	0.5637E-04
122	-0.2052E-03	-0.4674E-02	-0.3372E-02	-0.3096E-03	0.5017E-04	0.4862E-04
124	-0.2246E-05	-0.3373E-02	-0.3372E-02	-0.3018E-03	0.4585E-04	0.3989E-04
125	0.4196E-03	-0.5324E-03	-0.3372E-02	-0.2495E-03	0.3834E-04	0.1903E-04
127	0.5316E-03	-0.9822E-05	-0.2881E-02	-0.2008E-03	0.3513E-04	0.1060E-04
129	0.4314E-03	-0.5791E-05	-0.3414E-05	-0.4009E-04	0.2071E-04	-0.1371E-04
9024	0.1523E-03	-0.2895E-05	0.2837E-03	0.9440E-05	0.1036E-04	-0.1396E-04
130	0.5660E-11	-0.6331E-10	0.2353E-10	0.2874E-11	0.5881E-12	-0.1554E-11
48	0.7465E-02	-0.9841E-02	0.2989E-01	-0.1125E-02	0.6401E-03	0.5683E-03
49	0.7442E-02	-0.7000E-02	0.2668E-01	-0.1071E-02	0.6404E-03	0.5623E-03
50	0.7420E-02	-0.4218E-02	0.2348E-01	-0.1017E-02	0.6338E-03	0.5450E-03
51	0.7413E-02	-0.3403E-02	0.2253E-01	-0.1001E-02	0.6304E-03	0.5376E-03
52	0.7388E-02	-0.5301E-03	0.1911E-01	-0.9420E-03	0.6121E-03	0.5020E-03
53	0.7278E-02	0.9745E-02	0.6155E-02	-0.6813E-03	0.4244E-03	0.3628E-03
54	0.7116E-02	0.2141E-01	0.4595E-03	-0.2971E-03	-0.1717E-03	0.3224E-03
55	0.7113E-02	0.2165E-01	0.5952E-03	-0.2891E-03	-0.1881E-03	0.3236E-03
56	0.5891E-02	0.2380E-01	0.1617E-02	-0.2169E-03	-0.3345E-03	0.3335E-03
57	0.5097E-02	0.2427E-01	0.1617E-02	-0.1999E-03	-0.3195E-03	0.3399E-03
58	0.4486E-02	0.2465E-01	0.1617E-02	-0.1855E-03	-0.2939E-03	0.3455E-03
59	0.3662E-02	0.2517E-01	0.1618E-02	-0.1651E-03	-0.2573E-03	0.3540E-03
103	0.3656E-02	0.2387E-01	0.7699E-03	-0.1475E-03	-0.1662E-03	0.3432E-03
104	0.3641E-02	0.2080E-01	0.3976E-03	-0.7579E-04	0.4051E-04	0.3236E-03
105	0.3638E-02	0.1983E-01	0.5445E-03	-0.5264E-04	0.5112E-04	0.3254E-03
106	0.3632E-02	0.1885E-01	0.6821E-03	-0.2949E-04	0.3432E-04	0.3301E-03
107	0.3613E-02	0.1487E-01	-0.3557E-03	0.5922E-04	-0.2836E-03	0.3664E-03
109	0.3091E-02	0.1421E-01	-0.8181E-03	0.7455E-04	-0.3590E-03	0.3773E-03
111	0.2009E-02	0.1391E-01	-0.8175E-03	0.9657E-04	-0.2101E-03	0.3976E-03
112	0.1808E-02	0.1374E-01	-0.8173E-03	0.1064E-03	-0.4766E-04	0.4061E-03
60	0.2946E-02	0.2564E-01	0.1619E-02	-0.1462E-03	-0.2252E-03	0.3627E-03
61	0.2319E-02	0.2605E-01	0.1619E-02	-0.1284E-03	-0.1978E-03	0.3715E-03
62	0.2270E-02	0.2604E-01	0.1619E-02	-0.1274E-03	-0.1957E-03	0.3722E-03
63	0.1655E-02	0.2502E-01	0.1076E-02	-0.7562E-04	-0.1225E-03	0.3971E-03
64	0.1659E-02	0.2055E-01	0.3182E-04	-0.2631E-06	-0.7316E-04	0.4141E-03
65	0.1661E-02	0.1846E-01	-0.2921E-03	0.3402E-04	-0.5889E-04	0.4189E-03
131	0.2957E-03	0.1846E-01	-0.1797E-03	0.3437E-04	-0.5889E-04	0.4194E-03
132	-0.1068E-02	0.1846E-01	-0.6789E-04	0.3437E-04	-0.5889E-04	0.4194E-03
66	0.1664E-02	0.1637E-01	-0.5576E-03	0.6390E-04	-0.4713E-04	0.4158E-03
67	0.1667E-02	0.1461E-01	-0.7366E-03	0.8928E-04	-0.3706E-04	0.4111E-03
68	0.1669E-02	0.1319E-01	-0.8371E-03	0.1072E-03	-0.2992E-04	0.4067E-03
69	0.1671E-02	0.1217E-01	-0.9056E-03	0.1254E-03	-0.1593E-04	0.4015E-03
70	0.1672E-02	0.1127E-01	-0.9295E-03	0.1390E-03	-0.5596E-05	0.3970E-03
71	0.1674E-02	0.9311E-02	-0.9004E-03	0.1694E-03	0.1694E-04	0.3852E-03
133	0.4169E-03	0.9311E-02	-0.3457E-03	0.1701E-03	0.1694E-04	0.3860E-03
134	-0.4384E-03	0.9312E-02	0.2073E-03	0.1701E-03	0.1694E-04	0.3860E-03
72	0.1674E-02	0.7436E-02	-0.7598E-03	0.1913E-03	0.4367E-04	0.3628E-03
73	0.1697E-02	0.7524E-03	0.2433E-02	0.2885E-03	0.2772E-03	0.2275E-03
74	0.1699E-02	0.2060E-03	0.3190E-02	0.2995E-03	0.3062E-03	0.2087E-03
75	0.1703E-02	-0.7421E-03	0.4829E-02	0.3113E-03	0.3145E-03	0.1688E-03
76	0.1708E-02	-0.1483E-02	0.6376E-02	0.3432E-03	0.2697E-03	0.1260E-03
77	0.1710E-02	-0.1772E-02	0.7019E-02	0.3541E-03	0.2225E-03	0.1035E-03
78	0.1709E-02	-0.2179E-02	0.7787E-02	0.3450E-03	0.1638E-03	0.9992E-04
9021	0.1706E-02	-0.4698E-02	0.7770E-02	0.2794E-03	-0.1245E-03	0.7664E-04
79	0.1702E-02	-0.5598E-02	0.2788E-02	0.2139E-03	-0.1828E-03	0.5672E-04
80	0.1701E-02	-0.7178E-02	0.9647E-03	0.1890E-03	-0.1446E-03	0.4997E-04
81	0.1700E-02	-0.7310E-02	0.5921E-03	0.1828E-03	-0.1300E-03	0.4833E-04
82	0.2027E-02	-0.6834E-02	0.1917E-03	0.1671E-03	-0.6234E-04	0.4454E-04
9022	0.1986E-02	-0.3139E-02	0.1859E-03	0.1209E-03	0.4722E-04	0.2460E-04
83	0.4510E-03	-0.6507E-03	0.1802E-03	0.7295E-04	0.5415E-04	0.4661E-05
84	0.3282E-03	-0.4857E-03	0.1796E-03	0.6848E-04	0.4968E-04	0.2846E-05
85	0.2473E-03	-0.3741E-03	0.1793E-03	0.6528E-04	0.4596E-04	0.1548E-05
86	0.1847E-04	-0.1749E-04	0.8064E-04	0.3774E-04	0.1674E-04	-0.4231E-05
87	0.1042E-09	-0.1974E-11	0.1875E-09	0.3149E-10	0.1398E-11	-0.6526E-11

COUPLED MODE SHAPES (FOR SECONDARY MODE) MODE 6
FREQUENCY (HZ.) = 2.80091

MODAL DISP AT PRIMARY SYSTEM CONNETING DOF

DOF #	DISPLACEMENT
3041	0.1720E-05
3042	0.0000E+00
3043	0.2459E-07
3061	0.4191E-05
3063	0.8265E-07
3072	0.0000E+00
3081	0.6716E-05
3103	0.2975E-06
3121	0.1311E-04
3122	0.0000E+00
3123	0.3882E-06
3051	0.7752E-05
3092	0.0000E+00
3093	0.[illegible]E-06

MODAL DISPLACEMENTS AT SECONDARY SYSTEM DOF

NODE	DX	DY	DZ	ROT-X	ROT-Y	ROT-Z
1	-0.7312E-08	0.7950E-09	0.1102E-10	0.7457E-10	0.3918E-09	0.1598E-08
2	-0.8463E-03	0.3976E-02	-0.7873E-03	-0.1743E-03	0.2223E-03	0.1823E-02
3	-0.1817E-02	0.5692E-01	-0.1176E-02	-0.5011E-03	-0.3319E-03	0.5573E-02
4	-0.2050E-02	0.2784E+00	0.2776E-01	-0.5518E-03	-0.1843E-02	0.1094E-01
5	-0.2167E-02	0.4410E+00	0.5746E-01	-0.5773E-03	-0.2599E-02	0.1333E-01
9001	-0.9095E-02	0.4666E+00	0.6223E-01	-0.5671E-03	-0.2797E-02	0.1394E-01
9002	-0.2871E-01	0.4861E+00	0.6542E-01	-0.5433E-03	-0.2970E-02	0.1450E-01
6	-0.5648E-01	0.4935E+00	0.6593E-01	-0.5344E-03	-0.3119E-02	0.1500E-01
7	-0.9061E-01	0.4935E+00	0.6473E-01	-0.5376E-03	-0.3284E-02	0.1526E-01
9003	-0.6317E+00	0.4935E+00	0.4417E-01	-0.5739E-03	-0.5985E-02	0.1160E-01
9004	-0.7687E+00	0.4936E+00	0.2312E-01	-0.5583E-03	-0.8667E-02	-0.6628E-02
9	0.2469E-01	0.4936E+00	0.4032E-02	-0.4644E-03	-0.1139E-01	-0.3887E-01
10	0.2936E+00	0.4936E+00	0.1150E-02	-0.4391E-03	-0.1186E-01	-0.4526E-01
9005	0.2079E+01	0.4936E+00	-0.1679E-01	-0.9250E-03	-0.1415E-01	-0.6590E-01
9006	0.4237E+01	0.4935E+00	-0.6923E-01	-0.2648E-02	-0.1645E-01	-0.6923E-01
11	0.6246E+01	0.4935E+00	-0.1951E+00	-0.5628E-02	-0.1874E-01	-0.5679E-01
12	0.6818E+01	0.4935E+00	-0.2624E+00	-0.6551E-02	-0.1953E-01	-0.4923E-01
9007	0.6904E+01	0.4697E+00	-0.2660E+00	-0.7400E-02	-0.1964E-01	-0.4641E-01
9008	0.6969E+01	0.4081E+00	-0.2494E+00	-0.7785E-02	-0.1975E-01	-0.4351E-01
13	0.6991E+01	0.3293E+00	-0.2162E+00	-0.8130E-02	-0.1990E-01	-0.4055E-01
14	0.6991E+01	0.2208E+00	-0.1612E+00	-0.8616E-02	-0.2003E-01	-0.3828E-01
15	0.6991E+01	0.5932E-02	-0.4015E-01	-0.9674E-02	-0.2029E-01	-0.3331E-01
16	0.6991E+01	-0.3802E+00	0.2461E+00	-0.1214E-01	-0.2069E-01	-0.2229E-01
17	0.6968E+01	-0.4203E+00	0.3011E+00	-0.1305E-01	-0.2079E-01	-0.1843E-01
18	0.6866E+01	-0.4322E+00	0.4034E+00	-0.1322E-01	-0.2102E-01	-0.1262E-01
19	0.6718E+01	-0.4028E+00	0.5510E+00	-0.1310E-01	-0.2159E-01	-0.5229E-02
20	0.6303E+01	-0.1041E+00	0.9666E+00	-0.1079E-01	-0.2331E-01	0.1284E-02
21	0.6177E+01	-0.3619E-01	0.9915E+00	-0.1049E-01	-0.2535E-01	0.1828E-01
9009	0.5018E+01	-0.3619E-01	0.6195E+00	-0.8232E-02	-0.3108E-01	0.3956E-01
9010	0.3070E+01	-0.3599E-01	0.3235E+00	-0.6587E-02	-0.3682E-01	0.5662E-01
22	0.5660E+00	-0.3579E-01	0.8978E-01	-0.5071E-02	-0.4256E-01	0.6650E-01
23	-0.3098E-02	-0.3575E-01	0.4806E-01	-0.4744E-02	-0.4377E-01	0.6735E-01
24	-0.1109E+01	-0.3567E-01	-0.2435E-01	-0.4099E-02	-0.4611E-01	0.6726E-01
9011	-0.3252E+01	-0.3550E-01	-0.1384E+00	-0.2721E-02	-0.5089E-01	0.5935E-01
9012	-0.4970E+01	-0.3533E-01	-0.2056E+00	-0.1305E-02	-0.5567E-01	0.4218E-01
25	-0.5993E+01	-0.3516E-01	-0.2262E+00	0.4896E-04	-0.6044E-01	0.1818E-01
26	-0.6129E+01	-0.3511E-01	-0.2240E+00	0.4080E-03	-0.6180E-01	0.1046E-01
9013	-0.5978E+01	-0.3493E-01	-0.1883E+00	0.1546E-02	-0.6687E-01	-0.1910E-01
9014	-0.4792E+01	-0.3475E-01	-0.1192E+00	0.2279E-02	-0.7194E-01	-0.4724E-01
27	-0.2693E+01	-0.3457E-01	-0.3283E-01	0.2499E-02	-0.7701E-01	-0.7013E-01
28	-0.1714E+01	-0.3450E-01	-0.1411E-04	0.2438E-02	-0.7890E-01	-0.7681E-01
29	-0.9865E-01	-0.3440E-01	0.4665E-01	0.2196E-02	-0.8177E-01	-0.8451E-01
9015	0.3207E+01	-0.3421E-01	0.1136E+00	0.1289E-02	-0.8711E-01	-0.9077E-01
9013	0.6565E+01	-0.3402E-01	0.1364E+00	-0.1534E-03	-0.9245E-01	-0.8775E-01
30	0.9696E+01	-0.3382E-01	0.9585E-01	-0.2028E-02	-0.9779E-01	-0.7953E-01
31	0.9775E+01	-0.3382E-01	0.9480E-01	-0.2083E-02	-0.9794E-01	-0.7927E-01
32	0.9876E+01	-0.3129E-01	0.8888E-01	-0.2372E-02	-0.9851E-01	-0.7794E-01
35	0.9699E+01	-0.2461E-01	0.8617E-01	-0.2593E-02	-0.9918E-01	-0.7687E-01
37	0.8858E+01	-0.2020E-02	0.8617E-01	-0.2632E-02	-0.9995E-01	-0.7417E-01
9017	0.5638E+01	0.7082E-01	0.8618E-01	-0.1855E-02	-0.9711E-01	-0.6380E-01
9018	0.2700E+01	0.1175E+00	0.8618E-01	-0.1022E-02	-0.8194E-01	-0.5344E-01
38	0.4865E+00	0.1369E+00	0.8618E-01	-0.1844E-03	-0.5216E-01	-0.4307E-01
39	0.9621E-02	0.1375E+00	0.8618E-01	0.7586E-04	-0.3917E-01	-0.3875E-01
9019	-0.6737E+00	0.1218E+00	0.8618E-01	0.8089E-03	-0.3942E-02	-0.2884E-01
40	-0.4655E+00	0.8524E-01	0.8618E-01	0.1286E-02	0.1290E-01	-0.1794E-01
41	-0.5894E-01	0.4441E-01	0.8617E-01	0.1443E-02	0.1221E-01	-0.8513E-02
43	-0.1715E-01	0.1249E-01	0.4792E-01	0.1198E-02	0.8917E-02	-0.6236E-02
44	-0.1714E-01	0.1769E-02	0.1542E-01	0.1198E-02	0.8467E-02	-0.5879E-02
45	-0.1704E-01	-0.1682E-01	0.5591E-02	0.1197E-02	0.7155E-02	-0.4963E-02
9020	-0.1671E-01	-0.7905E-01	-0.8962E-01	0.1189E-02	0.3845E-03	0.1783E-04
46	-0.1633E-01	-0.4629E-01	-0.6374E-01	0.1181E-02	-0.1286E-02	0.1683E-02
47	-0.1629E-01	-0.4131E-01	-0.6000E-01	0.1181E-02	-0.1161E-02	0.1664E-02
91	-0.2130E-01	-0.4131E-01	-0.5642E-01	0.1179E-02	-0.1036E-02	0.1591E-02
92	-0.3719E-01	-0.4130E-01	-0.4459E-01	0.7633E-03	-0.1316E-03	0.1385E-02
93	-0.4172E-01	-0.4217E-01	-0.4276E-01	-0.9809E-04	0.3591E-03	0.1487E-02
94	-0.4029E-01	-0.4140E-01	-0.4275E-01	-0.3618E-03	0.4813E-03	0.1588E-02
95	-0.3750E-01	-0.3860E-01	-0.4272E-01	-0.7373E-03	0.5770E-03	0.1742E-02
96	-0.3452E-01	-0.3402E-01	-0.4270E-01	-0.1074E-02	0.5594E-03	0.1899E-02
97	-0.3437E-01	-0.3375E-01	-0.4270E-01	-0.1090E-02	0.5556E-03	0.1906E-02
98	-0.2496E-01	-0.2875E-01	-0.3709E-01	-0.1647E-02	0.3119E-03	0.2036E-02
100	-0.1572E-01	-0.2874E-01	-0.2930E-01	-0.1751E-02	0.1388E-03	0.2021E-02
101	-0.9678E-02	-0.2874E-01	-0.2395E-01	-0.1757E-02	0.1005E-04	0.1960E-02
102	-0.2429E-02	-0.2874E-01	-0.1731E-01	-0.1730E-02	-0.1707E-03	0.1860E-02
113	-0.9429E-02	-0.1867E-01	-0.2395E-01	-0.1545E-02	0.8759E-04	0.1707E-02
114	-0.8923E-02	-0.1254E-01	-0.2395E-01	-0.1340E-02	0.1456E-03	0.1471E-02
115	-0.8200E-02	-0.7295E-02	-0.2395E-01	-0.1128E-02	0.1898E-03	0.1236E-02
116	-0.6866E-02	-0.1246E-02	-0.2394E-01	-0.8027E-03	0.2291E-03	0.8887E-03
118	-0.8004E-02	0.2921E-03	-0.2528E-01	-0.4832E-03	0.2635E-03	0.6544E-03
9023	-0.1332E-01	0.2960E-03	-0.2308E-01	0.4572E-03	0.3409E-03	-0.1824E-03
120	-0.3693E-02	0.3.00E-03	-0.9186E-02	0.3316E-03	0.4183E-03	-0.3793E-03
122	-0.1915E-02	-0.2325E-03	-0.8558E-02	0.1814E-03	0.4229E-03	-0.3498E-03
124	-0.1250E-03	-0.7760E-03	-0.8556E-02	0.7783E-04	0.4168E-03	-0.3145E-03

125	0.3919E-02	-0.4185E-03	-0.6651E-02	-0.1400E-03	0.3797E-03	-0.2302E-03
127	0.4280E-02	-0.8736E-05	-0.8074E-02	-0.2471E-03	0.3597E-03	-0.1987E-03
129	0.9368E-03	-0.5151E-05	-0.3750E-03	-0.1965E-03	0.2121E-03	-0.7207E-04
9024	0.1352E-03	-0.2575E-05	0.7216E-03	0.3197E-04	0.1060E-03	-0.2020E-04
130	-0.1260E-10	-0.5631E-10	0.1040E-09	0.1198E-10	0.6022E-11	-0.3259E-12
48	-0.1627E-01	-0.3610E-01	-0.5646E-01	0.1136E-02	-0.1191E-02	0.1786E-02
49	-0.1622E-01	-0.2671E-01	-0.5040E-01	0.1061E-02	-0.1224E-02	0.1938E-02
50	-0.1617E-01	-0.1672E-01	-0.4422E-01	0.9860E-03	-0.1238E-02	0.2024E-02
51	-0.1616E-01	-0.1366E-01	-0.4235E-01	0.9616E-03	-0.1238E-02	0.2037E-02
52	-0.1610E-01	-0.2375E-02	-0.3556E-01	0.8814E-03	-0.1221E-02	0.2035E-02
53	-0.1587E-01	0.4497E-01	-0.9289E-02	0.5187E-03	-0.8538E-03	0.1842E-02
54	-0.1553E-01	0.1086E+00	-0.1353E-02	-0.1606E-04	0.5972E-03	0.1743E-02
55	-0.1552E-01	0.1109E+00	-0.1819E-02	-0.2726E-04	0.6388E-03	0.1741E-02
56	-0.1181E-01	0.1177E+00	-0.5014E-02	-0.1327E-03	0.1039E-02	0.1730E-02
57	-0.9362E-02	0.1180E+00	-0.5016E-02	-0.1600E-03	0.1025E-02	0.1723E-02
58	-0.7343E-02	0.1184E+00	-0.5017E-02	-0.1849E-03	0.9834E-03	0.1717E-02
59	-0.4463E-02	0.1190E+00	-0.5019E-02	-0.2236E-03	0.9114E-03	0.1708E-02
103	-0.4467E-02	0.1126E+00	-0.2032E-02	-0.2657E-03	0.5745E-03	0.1719E-02
104	-0.4404E-02	0.9623E-01	-0.9681E-03	-0.4370E-03	-0.1716E-03	0.1825E-02
105	-0.4383E-02	0.9068E-01	-0.1559E-02	-0.4923E-03	-0.1982E-03	0.1876E-02
106	-0.4363E-02	0.8498E-01	-0.2072E-02	-0.5476E-03	-0.1203E-03	0.1920E-02
107	-0.4284E-02	0.6270E-01	0.2303E-02	-0.7597E-03	0.1143E-02	0.1904E-02
109	-0.2193E-02	0.6104E-01	0.4240E-02	-0.7977E-03	0.1432E-02	0.1860E-02
111	0.2078E-02	0.6384E-01	0.4238E-02	-0.8734E-03	0.8080E-03	0.1777E-02
112	0.2827E-02	0.6511E-01	0.4237E-02	-0.9142E-03	0.1427E-03	0.1743E-02
60	-0.1657E-02	0.1197E+00	-0.5020E-02	-0.2635E-03	0.8385E-03	0.1699E-02
61	0.5498E-03	0.1206E+00	-0.5021E-02	-0.3051E-03	0.7647E-03	0.1690E-02
62	0.7400E-03	0.1206E+00	-0.5022E-02	-0.3089E-03	0.7586E-03	0.1689E-02
63	0.3220E-02	0.1157E+00	-0.2816E-02	-0.4380E-03	0.4975E-03	0.1656E-02
64	0.3221E-02	0.9760E-01	0.1379E-02	-0.6308E-03	0.2825E-03	0.1648E-02
65	0.3221E-02	0.8935E-01	0.2589E-02	-0.7185E-03	0.2088E-03	0.1651E-02
131	-0.2126E-02	0.8935E-01	0.2500E-03	-0.7191E-03	0.2088E-03	0.1647E-02
132	-0.7484E-02	0.8935E-01	-0.2089E-02	-0.7191E-03	0.2088E-03	0.1647E-02
66	0.3212E-02	0.8098E-01	0.3469E-02	-0.7999E-03	0.1466E-03	0.1692E-02
67	0.3204E-02	0.7371E-01	0.3986E-02	-0.8690E-03	0.9992E-04	0.1722E-02
68	0.3198E-02	0.6851E-01	0.4236E-02	-0.9178E-03	0.7037E-04	0.1740E-02
69	0.3195E-02	0.6327E-01	0.4360E-02	-0.9680E-03	0.1596E-04	0.1755E-02
70	0.3193E-02	0.5930E-01	0.4348E-02	-0.1006E-02	-0.2235E-04	0.1765E-02
71	0.3188E-02	0.5042E-01	0.4029E-02	-0.1090E-02	-0.9989E-04	0.1781E-02
133	-0.2574E-02	0.5042E-01	0.4805E-03	-0.1091E-02	-0.9989E-04	0.1776E-02
134	-0.8350E-02	0.5042E-01	-0.3066E-02	-0.1091E-02	-0.9989E-04	0.1776E-02
72	0.3172E-02	0.4137E-01	0.3349E-02	-0.1161E-02	-0.1738E-03	0.1833E-02
73	0.3097E-02	-0.7575E-03	-0.4496E-02	-0.1480E-02	-0.5437E-03	0.1904E-02
74	0.3089E-02	-0.5512E-02	-0.5950E-02	-0.1516E-02	-0.5732E-03	0.1895E-02
75	0.3072E-02	-0.1494E-01	-0.8885E-02	-0.1588E-02	-0.5372E-03	0.1867E-02
76	0.3055E-02	-0.2420E-01	-0.1132E-01	-0.1660E-02	-0.3746E-03	0.1826E-02
77	0.3047E-02	-0.2873E-01	-0.1216E-01	-0.1696E-02	-0.2460E-03	0.1800E-02
78	0.3048E-02	-0.3547E-01	-0.1297E-01	-0.1577E-02	-0.1660E-03	0.1571E-02
9021	0.3052E-02	-0.6079E-03	-0.1124E-01	-0.7284E-03	0.2303E-03	0.3096E-03
79	0.3057E-02	-0.5916E-01	-0.2654E-02	0.1199E-03	0.3170E-03	-0.3075E-03
80	0.3058E-02	-0.5535E-01	0.5860E-03	0.4422E-03	0.2682E-03	-0.3706E-03
81	0.3059E-02	-0.5434E-01	0.1286E-02	0.5219E-03	0.2492E-03	-0.3717E-03
82	0.2135E-02	-0.5052E-01	0.2107E-02	0.7186E-03	0.1604E-03	-0.3710E-03
9022	0.4117E-03	-0.2780E-01	0.2115E-02	0.9587E-03	0.1274E-04	-0.2496E-03
83	0.6234E-03	-0.5805E-02	0.2123E-02	0.6609E-01	-0.6233E-05	-0.1283E-03
84	0.6346E-03	-0.4317E-02	0.2123E-02	0.6069E-03	-0.1574E-05	-0.1172E-03
85	0.6353E-03	-0.3333E-02	0.2124E-02	0.5655E-03	0.2411E-05	-0.1093E-03
86	0.2040E-03	-0.2105E-03	0.6238E-03	0.2543E-03	0.2371E-04	-0.6486E-04
87	-0.1302E-09	-0.5505E-09	-0.2522E-09	0.1779E-09	0.1667E-12	-0.6589E-10

COUPLED MODE SHAPES (FOR SECONDARY MODE) MODE 7
FREQUENCY (HZ.) = 3.43011

MODAL DISP AT PRIMARY SYSTEM CONNETING DOF

DOF #	DISPLACEMENT
3041	0.2740E-06
3042	0.0000E+00
3043	0.5551E-06
3061	0.6014E-06
3063	0.1866E-05
3072	0.0000E+00
3081	0.8820E-06
3103	0.6716E-05
3121	0.1492E-05
3122	0.0000E+00
3123	0.8763E-05
3091	0.9840E-06
3092	0.0000E+00
3093	0.4161E-05

MODAL DISPLACEMENTS AT SECONDARY SYSTEM DOF

NODE	DX	DY	DZ	ROT-X	ROT-Y	ROT-Z
1	-0.9297E-09	-0.2348E-08	0.7164E-08	0.6727E-09	-0.3018E-08	-0.8505E-09
2	0.7085E-02	-0.1447E-03	0.7150E-02	0.9648E-03	-0.2894E-02	-0.1032E-02
3	0.3602E-01	-0.1625E-01	0.9148E-01	0.3681E-02	-0.8269E-02	-0.2682E-02
4	0.3599E-01	-0.1005E+00	0.3725E+00	0.8465E-02	-0.1152E-01	-0.3063E-02
5	0.3597E-01	-0.1374E+00	0.5211E+00	0.1087E-01	-0.1031E-01	-0.2319E-02
9001	0.3704E-01	-0.1415E+00	0.5456E+00	0.1119E-01	-0.9743E-02	-0.2025E-02
9002	0.3959E-01	-0.1441E+00	0.5743E+00	0.1148E-01	-0.9228E-02	-0.1714E-02
6	0.4250E-01	-0.1449E+00	0.6008E+00	0.1182E-01	-0.8732E-02	-0.1401E-02
7	0.4542E-01	-0.1449E+00	0.6277E+00	0.1201E-01	-0.8146E-02	-0.1210E-02
9003	0.4571E-01	-0.1450E+00	0.1039E+01	0.8094E-02	0.1423E-02	0.8519E-03
9004	0.6984E-02	-0.1451E+00	0.1060E+01	-0.9004E-02	0.1099E-01	0.9006E-03
9	0.4060E-02	-0.1452E+00	0.2353E+00	-0.3776E-01	0.2056E-01	-0.1096E-02
10	0.1265E-01	-0.1452E+00	-0.2441E-01	-0.4386E-01	0.2222E-01	-0.1554E-02

9005	0.7573E-01	-0.1453E+00	-0.1775E+01	-0.6472E-01	0.3035E-01	-0.1941E-02
9006	0.1029E+00	-0.1454E+00	-0.1876E+01	-0.6648E-01	0.3847E-01	0.7358E-03
11	-0.7168E-03	-0.1454E+00	-0.5757E+01	-0.5120E-01	0.4660E-01	0.6412E-02
12	-0.8334E-01	-0.1455E+00	-0.6263E+01	-0.4250E-01	0.4940E-01	0.9048E-02
9007	-0.1011E+00	-0.1406E+00	-0.6365E+01	-0.3943E-01	0.4970E-01	0.1000E-01
9008	-0.1155E+00	-0.1262E+00	-0.6485E+01	-0.3672E-01	0.4982E-01	0.1098E-01
13	-0.1211E+00	-0.1046E+00	-0.6597E+01	-0.3432E-01	0.5017E-01	0.1199E-01
14	-0.1211E+00	-0.7057E-01	-0.6736E+01	-0.3101E-01	0.5056E-01	0.1278E-01
15	-0.1211E+00	0.1132E-01	-0.7041E+01	-0.2380E-01	0.5113E-01	0.1456E-01
16	-0.1211E+00	0.2399E+00	-0.7759E+01	-0.7039E-02	0.5155E-01	0.1774E-01
17	-0.6448E-01	0.2928E+00	-0.7896E+01	-0.3289E-02	0.5148E-01	0.1805E-01
18	0.1875E+00	0.3834E+00	-0.8148E+01	0.4485E-02	0.5125E-01	0.1988E-01
19	0.5411E+00	0.4580E+00	-0.8501E+01	0.1609E-01	0.5065E-01	0.2186E-01
20	0.1452E+01	0.2847E+00	-0.9412E+01	0.5014E-01	0.4862E-01	0.2375E-01
21	0.1498E+01	0.1998E+00	-0.9322E+01	0.6291E-01	0.4718E-01	0.2087E-01
9009	0.8045E+00	0.2001E+00	-0.5917E+01	0.1038E+00	0.4350E-01	0.1416E-01
9010	0.3380E+00	0.2005E+00	-0.1298E+01	0.1219E+00	0.3983E-01	0.9331E-02
22	0.4344E-01	0.2008E+00	0.3482E+01	0.1116E+00	0.3616E-01	0.5491E-02
23	-0.1131E-03	0.2008E+00	0.4406E+01	0.1057E+00	0.3538E-01	0.4770E-02
24	-0.8727E-01	0.2009E+00	0.6025E+01	0.9143E-01	0.3388E-01	0.3451E-02
9011	-0.1410E+00	0.2012E+00	0.8476E+01	0.5362E-01	0.3082E-01	0.1032E-02
9012	-0.1409E+00	0.2014E+00	0.9532E+01	0.9120E-02	0.2776E-01	-0.9472E-03
25	-0.8392E-01	0.2017E+00	0.9100E+01	-0.3406E-01	0.2470E-01	-0.2361E-02
26	-0.6007E-01	0.2017E+00	0.8722E+01	-0.4512E-01	0.2383E-01	-0.2646E-02
9013	0.4603E-01	0.2020E+00	0.6527E+01	-0.7572E-01	0.2058E-01	-0.3207E-02
9014	0.1581E+00	0.2022E+00	0.3608E+01	-0.8483E-01	0.1734E-01	-0.2990E-02
27	0.2501E+00	0.2025E+00	0.8293E+00	-0.6707E-01	0.1409E-01	-0.2104E-02
28	0.2749E+00	0.2025E+00	0.2833E-01	-0.5298E-01	0.1288E-01	-0.1635E-02
29	0.3000E+00	0.2027E+00	-0.7991E+00	-0.3046E-01	0.1104E-01	-0.8667E-03
9015	0.3060E+00	0.2029E+00	-0.1300E+01	0.1249E-02	0.7622E-02	0.5167E-03
9016	0.2658E+00	0.2031E+00	-0.8834E+00	0.1843E-01	0.4200E-02	0.1544E-02
30	0.1994E+00	0.2034E+00	-0.1180E+00	0.1973E-01	0.7780E-03	0.1859E-02
31	0.1976E+00	0.2034E+00	-0.9831E-01	0.1954E-01	0.6863E-03	0.1855E-02
32	0.1932E+00	0.1827E+00	-0.4780E-01	0.1840E-01	0.4001E-03	0.1864E-02
35	0.1917E+00	0.1356E+00	-0.2801E-01	0.1722E-01	0.5177E-04	0.1872E-02
37	0.1898E+00	-0.2490E-02	-0.2793E-01	0.1568E-01	-0.4922E-03	0.1797E-02
9017	0.1474E+00	-0.4277E+00	-0.2762E-01	0.1049E-01	-0.1945E-02	0.1520E-02
9018	0.7569E-01	-0.6779E+00	-0.2732E-01	0.4926E-02	-0.2278E-02	0.1224E-02
38	0.1264E-01	-0.7473E+00	-0.2701E-01	-0.5795E-03	-0.1401E-02	0.9372E-03
39	0.7708E-03	-0.7326E+00	-0.2691E-01	-0.2252E-02	-0.8568E-03	0.8453E-03
9019	-0.2566E-02	-0.5750E+00	-0.2658E-01	-0.6674E-02	0.4062E-03	0.5438E-03
40	0.1214E-01	-0.3018E+00	-0.2626E-01	-0.8940E-02	0.2023E-03	0.2422E-03
41	0.9750E-03	-0.3486E-01	-0.2597E-01	-0.8843E-02	-0.1153E-02	-0.1844E-04
43	-0.4297E-02	-0.2579E-02	-0.2001E-01	-0.8438E-02	-0.1705E-02	-0.1570E-03
44	-0.4296E-02	-0.2809E-02	-0.1746E-01	-0.8352E-02	-0.1727E-02	-0.1818E-03
45	-0.4292E-02	-0.3645E-02	-0.1075E-01	-0.8122E-02	-0.1665E-02	-0.2475E-03
9020	-0.4263E-02	-0.1361E-01	0.2226E-01	-0.6406E-02	-0.7033E-03	-0.3206E-03
46	-0.4234E-02	-0.1517E-01	0.3234E-01	-0.4689E-02	-0.5951E-04	0.3397E-03
47	-0.4231E-02	-0.1400E-01	0.3244E-01	-0.4508E-02	-0.1059E-04	0.4515E-03
91	-0.5600E-02	-0.1400E-01	0.1896E-01	-0.4443E-02	-0.1072E-04	0.4701E-03
92	-0.1167E-01	-0.1400E-01	-0.2829E-01	-0.3954E-02	-0.1169E-04	0.6128E-03
93	-0.1424E-01	-0.3160E-03	-0.4246E-01	-0.3465E-02	-0.2749E-04	0.7185E-03
94	-0.1433E-01	0.1068E-01	-0.4248E-01	-0.3318E-02	-0.2975E-04	0.7966E-03
95	-0.1449E-01	0.2672E-01	-0.4248E-01	-0.3094E-02	-0.3511E-04	0.8861E-03
96	-0.1468E-01	0.4165E-01	-0.4248E-01	-0.2872E-02	-0.4493E-04	0.9757E-03
97	-0.1470E-01	0.4216E-01	-0.4248E-01	-0.2861E-02	-0.4548E-04	0.9802E-03
98	-0.1093E-01	0.5245E-01	-0.3288E-01	-0.2393E-02	-0.5548E-04	0.1103E-02
100	-0.5830E-02	0.5245E-01	-0.2254E-01	-0.2203E-02	-0.7168E-04	0.1161E-02
101	-0.2290E-02	0.5245E-01	-0.1612E-01	-0.2077E-02	-0.8249E-04	0.1194E-02
102	0.2324E-02	0.5245E-01	-0.8350E-02	-0.2067E-02	-0.1082E-03	0.1263E-02
113	-0.2668E-02	0.6310E-01	-0.1612E-01	-0.1333E-02	-0.3437E-04	0.1046E-02
114	-0.2731E-02	0.6748E-01	-0.1613E-01	-0.7779E-03	0.1987E-05	0.9050E-03
115	-0.2656E-02	0.6979E-01	-0.1613E-01	-0.3575E-03	0.3010E-04	0.7638E-03
116	-0.2372E-02	0.7064E-01	-0.1613E-01	0.1034E-04	0.5628E-04	0.5560E-03
118	-0.3286E-02	0.7045E-01	-0.1587E-01	0.1602E-03	0.7919E-04	0.4214E-03
9023	-0.7114E-02	0.7037E-01	0.1106E-02	0.1181E-02	0.1421E-03	-0.8805E-04
120	-0.1897E-02	0.7029E-01	0.5998E-01	0.3095E-02	0.2050E-03	-0.2101E-03
122	-0.9679E-03	0.6263E-01	0.6733E-01	0.3565E-02	0.2102E-03	-0.1934E-03
124	-0.7470E-04	0.4697E-01	0.6733E-01	0.3779E-02	0.2084E-03	-0.1731E-03
125	0.1952E-02	0.8236E-02	0.6733E-01	0.3702E-02	0.1906E-03	-0.1245E-03
127	0.2117E-02	0.1720E-03	0.5951E-01	0.3331E-02	0.1808E-05	-0.1062E-03
129	0.3916E-03	0.1014E-03	0.1016E-02	0.1046E-02	0.1066E-03	-0.3462E-04
9024	0.3569E-04	0.5071E-04	-0.4331E-02	-0.2093E-03	0.5330E-04	-0.7370E-05
130	-0.7927E-11	0.1109E-08	-0.5847E-09	-0.6955E-10	0.3027E-11	0.1893E-12
48	-0.4229E-02	-0.1253E-01	0.3240E-01	-0.4489E-02	0.3593E-04	0.5357E-03
49	-0.4224E-02	-0.9486E-02	0.3203E-01	-0.4457E-02	0.1101E-03	0.6919E-03
50	-0.4219E-02	-0.5610E-02	0.3130E-01	-0.4425E-02	0.1793E-03	0.8676E-03
51	-0.4218E-02	-0.4272E-02	0.3101E-01	-0.4415E-02	0.1990E-03	0.9241E-03
52	-0.4213E-02	0.1389E-02	0.2972E-01	-0.4380E-02	0.2669E-03	0.1146E-02
53	-0.4190E-02	0.3978E-01	0.2036E-01	-0.4224E-02	0.4785E-03	0.1932E-02
54	-0.4157E-02	0.1166E+00	0.1590E-02	-0.3993E-02	0.5132E-03	0.2171E-02
55	-0.4156E-02	0.1182E+00	0.1211E-02	-0.3988E-02	0.5109E-03	0.2164E-02
56	-0.2248E-02	0.1410E+00	-0.6755E-03	-0.3921E-02	0.5062E-03	0.2054E-02
57	-0.1104E-02	0.1498E+00	-0.6727E-03	-0.3901E-02	0.5008E-03	0.2018E-02
58	-0.1102E-03	0.1576E+00	-0.6702E-03	-0.3881E-02	0.4936E-03	0.1986E-02
59	0.1354E-02	0.1692E+00	-0.6664E-03	-0.3846E-02	0.4835E-03	0.1937E-02
103	0.1363E-02	0.1622E+00	0.9773E-03	-0.3786E-02	0.3550E-03	0.1737E-02
104	0.1402E-02	0.1486E+00	0.2753E-02	-0.3543E-02	0.1027E-03	0.1367E-02
105	0.1414E-02	0.1443E+00	0.3063E-02	-0.3464E-02	0.1142E-03	0.1391E-02
106	0.1427E-02	0.1400E+00	0.3476E-02	-0.3385E-02	0.1717E-03	0.1453E-02
107	0.1475E-02	0.1218E+00	0.8532E-02	-0.3084E-02	0.8256E-03	0.1715E-02
109	0.2893E-02	0.1238E+00	0.9879E-02	-0.3036E-02	0.9493E-03	0.1771E-02
111	0.5625E-02	0.1339E+00	0.9878E-02	-0.2975E-02	0.4935E-03	0.1869E-02
112	0.6061E-02	0.1381E+00	0.9877E-02	-0.2953E-02	0.5753E-04	0.1910E-02
60	0.2787E-02	0.1807E+00	-0.6625E-03	-0.3805E-02	0.4794E-03	0.1893E-02
61	0.4218E-02	0.1920E+00	-0.6586E-03	-0.3760E-02	0.4823E-03	0.1849E-02
62	0.4317E-02	0.1930E+00	-0.6583E-03	-0.3756E-02	0.4828E-03	0.1845E-02
63	0.6187E-02	0.2001E+00	0.1735E-02	-0.3591E-02	0.5046E-03	0.1776E-02
64	0.6180E-02	0.1808E+00	0.6452E-02	-0.3296E-02	0.3980E-03	0.1766E-02
65	0.6177E-02	0.1719E+00	0.8210E-02	-0.3162E-02	0.2847E-03	0.1806E-02
131	0.2997E-03	0.1719E+00	-0.2051E-02	-0.3159E-02	0.2847E-03	0.1807E-02

132	-0.5576E-02	0.1719E+00	-0.1232E-01	-0.3159E-02	0.2847E-03	0.1807E-02
66	0.6175E-02	0.1627E+00	0.9301E-02	-0.3076E-02	0.1600E-03	0.1852E-02
67	0.6173E-02	0.1548E+00	0.9768E-02	-0.3003E-02	0.6821E-04	0.1888E-02
68	0.6172E-02	0.1491E+00	0.9877E-02	-0.2951E-02	0.1125E-04	0.1913E-02
69	0.6173E-02	0.1433E+00	0.9798E-02	-0.2899E-02	-0.5673E-04	0.1936E-02
70	0.6173E-02	0.1389E+00	0.9610E-02	-0.2860E-02	-0.1032E-03	0.1953E-02
71	0.6174E-02	0.1291E+00	0.8847E-02	-0.2773E-02	-0.1925E-03	0.1987E-02
133	-0.2837E-03	0.1291E+00	-0.1710E-03	-0.2773E-02	-0.1925E-03	0.1986E-02
134	-0.6744E-02	0.1291E+00	-0.9191E-02	-0.2773E-02	-0.1925E-03	0.1987E-02
72	0.6174E-02	0.1190E+00	0.7685E-02	-0.2689E-02	-0.2602E-03	0.2009E-02
73	0.6173E-02	0.7584E-01	0.7934E-03	-0.2315E-02	-0.2730E-03	0.1772E-02
74	0.6173E-02	0.7148E-01	0.1420E-03	-0.2273E-02	-0.2479E-03	0.1710E-02
75	0.6172E-02	0.6325E-01	-0.9719E-03	-0.2188E-02	-0.1969E-03	0.1565E-02
76	0.6172E-02	0.5582E-01	-0.1829E-02	-0.2104E-02	-0.1451E-03	0.1389E-02
77	0.6172E-02	0.5245E-01	-0.2159E-02	-0.2062E-02	-0.1189E-03	0.1289E-02
78	0.6172E-02	0.4748E-01	-0.2593E-02	-0.1976E-02	-0.9836E-04	0.1192E-02
9021	0.6171E-02	0.2211E-01	-0.3577E-02	-0.1376E-02	0.2109E-04	0.6205E-03
79	0.6170E-02	0.9699E-02	-0.1841E-02	-0.7787E-03	0.9140E-04	0.2937E-03
80	0.6170E-02	0.6885E-02	-0.7636E-03	-0.5508E-03	0.1049E-03	0.2319E-03
81	0.6170E-02	0.6279E-02	-0.4778E-03	-0.4945E-03	0.1071E-03	0.2219E-03
82	0.5752E-02	0.3996E-02	-0.6567E-04	-0.3471E-03	0.1128E-03	0.1815E-03
9022	0.2874E-02	-0.7374E-03	-0.6439E-04	-0.5608E-04	0.1063E-03	0.1068E-03
83	0.5580E-03	-0.4288E-03	-0.6312E-04	0.4635E-04	0.6880E-04	0.3213E-04
84	0.4028E-03	-0.3177E-03	-0.6300E-04	0.4630E-04	0.6382E-04	0.2533E-04
85	0.2991E-03	-0.2392E-03	-0.6292E-04	0.4531E-04	0.6010E-04	0.2047E-04
86	0.1494E-04	-0.1647E-04	-0.2469E-04	0.2312E-04	0.3019E-04	-0.1072E-05
87	0.3218E-10	-0.1915E-09	-0.4155E-10	0.1295E-10	0.2119E-10	-0.7223E-11

COUPLED MODE SHAPES (FOR SECONDARY MODE) MODE 8
FREQUENCY (HZ.) = 3.60057

MODAL DISP AT PRIMARY SYSTEM CONNETING DOF

DOF 8	DISPLACEMENT
3041	0.3816E-05
3042	0.0000E+00
3043	-0.1179E-06
3061	0.7106E-05
3063	-0.3960E-06
3072	0.0000E+00
3081	0.8684E-05
3103	-0.1426E-05
3121	0.9364E-05
3122	0.0000E+00
3123	-0.1860E-05
3091	0.5899E-05
3092	0.0000E+00
3093	-0.8833E-06

MODAL DISPLACEMENTS AT SECONDARY SYSTEM DOF

MODE	DX	DY	DZ	ROT-X	ROT-Y	ROT-Z
1	-0.1019E-07	0.7074E-09	0.1174E-08	0.1538E-09	-0.2323E-09	0.2034E-08
2	0.6660E-03	0.5214E-02	0.7575E-03	-0.1463E-03	-0.4501E-03	0.2318E-02
3	0.7035E-02	0.7377E-01	0.2293E-01	-0.3179E-03	-0.2752E-02	0.7158E-02
4	0.6709E-02	0.3619E+00	0.1487E+00	0.9086E-04	-0.6490E-02	0.1438E-01
5	0.6546E-02	0.5770E+00	0.2455E+00	0.2965E-03	-0.7910E-02	0.1776E-01
9001	-0.2706E-02	0.6112E+00	0.2608E+00	0.3502E-03	-0.8241E-02	0.1864E-01
9002	-0.2899E-01	0.6373E+00	0.2728E+00	0.4263E-03	-0.8525E-02	0.1946E-01
6	-0.6631E-01	0.6473E+00	0.2780E+00	0.4743E-03	-0.8743E-02	0.2019E-01
7	-0.1123E+00	0.6473E+00	0.2791E+00	0.4834E-03	-0.9023E-02	0.2057E-01
9003	-0.8483E+00	0.6471E+00	0.2867E+00	-0.4042E-03	-0.1328E-01	0.1587E-01
9004	-0.1038E+01	0.5473E+00	0.2282E+00	-0.3045E-02	-0.1753E-01	-0.8908E-02
9	0.1407E-01	0.6472E+00	0.4559E-01	-0.7102E-02	-0.2179E-01	-0.5253E-01
10	0.1974E+00	0.6472E+00	-0.2261E-02	-0.7932E-02	-0.2252E-01	-0.6112E-01
9005	0.2800E+01	0.6472E+00	-0.3066E+00	-0.1125E-01	-0.2614E-01	-0.8824E-01
9006	0.5671E+01	0.6471E+00	-0.6894E+00	-0.1300E-01	-0.2975E-01	-0.9153E-01
11	0.8313E+01	0.6470E+00	-0.1107E+01	-0.1360E-01	-0.3336E-01	-0.7440E-01
12	0.9062E+01	0.6470E+00	-0.1254E+01	-0.1363E-01	-0.3460E-01	-0.6458E-01
9007	0.9180E+01	0.6157E+00	-0.1262E+01	-0.1361E-01	-0.3484E-01	-0.6098E-01
9008	0.9261E+01	0.5347E+00	-0.1233E+01	-0.1357E-01	-0.3511E-01	-0.5729E-01
13	0.9289E+01	0.4308E+00	-0.1173E+01	-0.1356E-01	-0.3542E-01	-0.5354E-01
14	0.9289E+01	0.2873E+00	-0.1075E+01	-0.1356E-01	-0.3567E-01	-0.5063E-01
15	0.9289E+01	0.2647E-02	-0.8597E+00	-0.1357E-01	-0.3619E-01	-0.4421E-01
16	0.9289E+01	-0.5086E+00	-0.3467E+00	-0.1360E-01	-0.3731E-01	-0.2905E-01
17	0.9244E+01	-0.5632E+00	-0.2473E+00	-0.1416E-01	-0.3769E-01	-0.2347E-01
18	0.9062E+01	-0.5902E+00	-0.6141E-01	-0.1305E-01	-0.3814E-01	-0.1475E-01
19	0.8796E+01	-0.5645E+00	0.2048E+00	-0.1150E-01	-0.3856E-01	-0.2388E-02
20	0.8094E+01	-0.1340E+00	0.9072E+00	-0.7467E-02	-0.3729E-01	0.3037E-01
21	0.7856E+01	-0.2213E-01	0.9743E+00	-0.8531E-02	-0.3672E-01	0.4113E-01
9009	0.5521E+01	-0.2213E-01	0.6226E+00	-0.9030E-02	-0.2857E-01	0.7109E-01
9010	0.2548E+01	-0.2213E-01	0.2566E+00	-0.9064E-02	-0.2042E-01	0.7135E-01
22	0.2818E+00	-0.2213E-01	-0.6804E-01	-0.7885E-02	-0.1227E-01	0.3505E-01
23	0.3577E-01	-0.2213E-01	-0.1533E+00	-0.7454E-02	-0.1054E-01	0.2238E-01
24	-0.1282E+00	-0.2213E-01	-0.2675E+00	-0.6470E-02	-0.7213E-02	-0.1441E-02
9011	0.5489E+00	-0.2213E-01	-0.4435E+00	-0.3974E-02	-0.4260E-03	-0.3561E-01
9012	0.2057E+01	-0.2212E-01	-0.5287E+00	-0.1104E-02	0.6361E-02	-0.5135E-01
25	0.3786E+01	-0.2212E-01	-0.5183E+00	0.1665E-02	0.1315E-01	-0.4935E-01
26	0.4239E+01	-0.2212E-01	-0.4991E+00	0.2373E-02	0.1506E-01	-0.4585E-01
9013	0.5520E+01	-0.2212E-01	-0.3767E+00	0.4338E-02	0.2226E-01	-0.2428E-01
9014	0.5849E+01	-0.2211E-01	-0.2076E+00	0.4935E-02	0.2948E-01	0.6828E-02
27	0.5003E+01	-0.2211E-01	-0.4691E-01	0.3824E-02	0.3669E-01	0.4082E-01
28	0.4380E+01	-0.2211E-01	-0.1780E-02	0.2934E-02	0.3938E-01	0.5311E-01
29	0.3147E+01	-0.2210E-01	0.4222E-01	0.1508E-02	0.4345E-01	0.6964E-01
9015	0.1115E+00	-0.2210E-01	0.5785E-01	-0.5269E-03	0.5104E-01	0.9054E-01
9016	-0.3440E+01	-0.2209E-01	0.1356E-01	-0.1688E-02	0.5863E-01	0.9724E-01
30	-0.7003E+01	-0.2208E-01	-0.5693E-01	-0.1927E-02	0.6622E-01	0.9202E-01

31	-0.7095E+01	-0.2208E-01	-0.5886E-01	-0.1921E-02	0.6643E-01	0.9176E-01
32	-0.7263E+01	-0.2000E-01	-0.6391E-01	-0.1879E-02	0.6721E-01	0.9027E-01
35	-0.7182E+01	-0.1508E-01	-0.6596E-01	-0.1828E-02	0.6818E-01	0.8904E-01
37	-0.6601E+01	-0.3578E-04	-0.6597E-01	-0.1733E-02	0.6963E-01	0.8595E-01
9017	-0.4298E+01	0.4866E-01	-0.6598E-01	-0.1245E-02	0.7121E-01	0.7412E-01
9018	-0.2097E+01	0.7903E-01	-0.6599E-01	-0.6091E-03	0.6259E-01	0.6239E-01
34	-0.3827E+00	0.8714E-01	-0.6600E-01	0.1181E-03	0.4089E-01	0.5045E-01
39	-0.8145E-02	0.8466E-01	-0.6601E-01	0.3603E-03	0.3096E-01	0.4666E-01
9019	0.5298E+00	0.5955E-01	-0.6601E-01	0.1091E-02	0.3114E-02	0.3421E-01
40	0.3662E+00	0.1215E-01	-0.6602E-01	0.1659E-02	-0.1014E-01	0.2176E-01
41	0.4784E-01	-0.4196E-01	-0.6602E-01	0.1990E-02	-0.9485E-02	0.1100E-01
43	0.1552E-01	-0.1451E-01	-0.3656E-01	0.2340E-02	-0.6823E-02	0.8398E-02
44	0.1551E-01	-0.2708E-02	-0.2701E-01	0.2363E-02	-0.6443E-02	0.7994E-02
45	0.1547E-01	0.2571E-01	-0.4362E-02	0.2403E-02	-0.5437E-02	0.6949E-02
9020	0.1517E-01	0.1274E+00	0.6293E-01	0.2702E-02	-0.2257E-04	0.6547E-03
46	0.1486E-01	0.8828E-01	0.3587E-01	0.3001E-02	0.1170E-02	-0.2906E-02
47	0.1481E-01	0.7920E-01	0.3247E-01	0.3032E-02	0.1049E-02	-0.3120E-02
91	0.2415E-01	0.7919E-01	0.4153E-01	0.3033E-02	0.9440E-03	-0.3093E-02
92	0.5873E-01	0.7916E-01	0.7678E-01	0.3369E-02	0.1884E-03	-0.3169E-02
93	0.7071E-01	0.6491E-01	0.9027E-01	0.4031E-02	-0.1988E-03	-0.3459E-02
94	0.6986E-01	0.5150E-01	0.9026E-01	0.4203E-02	-0.3004E-03	-0.3617E-02
95	0.6804E-01	0.2988E-01	0.9024E-01	0.4394E-02	-0.3790E-03	-0.3911E-02
96	0.6607E-01	0.752EE-02	0.9022E-01	0.4493E-02	-0.3613E-03	-0.4185E-02
97	0.6598E-01	0.6402E-02	0.9022E-01	0.4496E-02	-0.3578E-03	-0.4199E-02
98	0.4827E-01	-0.1057E-01	0.7329E-01	0.4437E-02	-0.1418E-03	-0.4510E-02
100	0.2768E-01	-0.1059E-01	0.5353E-01	0.4291E-02	-0.1226E-04	-0.4593E-02
101	0.1383E-01	-0.1060E-01	0.4082E-01	0.4141E-02	0.1008E-03	-0.4605E-02
102	-0.3592E-02	-0.1061E-01	0.2533E-01	0.4069E-02	0.2872E-03	-0.4648E-02
113	0.1400E-01	-0.3119E-01	0.4081E-01	0.3198E-02	-0.7665E-04	-0.4023E-02
114	0.1337E-01	-0.4507E-01	0.4081E-01	0.2437E-02	-0.2102E-03	-0.3482E-02
115	0.1224E-01	-0.5397E-01	0.4061E-01	0.1791E-02	-0.3126E-03	-0.2940E-02
116	0.9936E-02	-0.6266E-01	0.4081E-01	0.1054E-02	-0.4055E-03	-0.2142E-02
118	0.1304E-01	-0.6455E-01	0.4239E-01	0.5233E-03	-0.4873E-03	-0.1626E-02
9023	0.2795E-01	-0.6448E-01	0.2613E-01	-0.1534E-02	-0.6867E-03	0.3338E-03
120	0.7900E-02	-0.6442E-01	-0.4356E-01	-0.3212E-02	-0.8861E-03	0.8127E-03
122	0.4104E-02	-0.5680E-01	-0.5101E-01	-0.3464E-02	-0.9002E-03	0.7501E-03
124	0.2899E-03	-0.4188E-01	-0.5101E-01	-0.3537E-02	-0.8886E-03	0.6743E-03
125	-0.8334E-02	-0.7005E-02	-0.5101E-01	-0.3207E-02	-0.8097E-03	0.4932E-03
127	-0.9100E-02	-0.1476E-03	-0.4446E-01	-0.2738E-02	-0.7671E-03	0.4254E-03
129	-0.1960E-02	-0.8704E-04	-0.4708E-03	-0.7151E-03	-0.4523E-03	0.1530E-03
9024	-0.2729E-03	-0.4352E-04	0.3073E-02	0.1520E-03	-0.2261E-03	0.4177E-04
130	0.2768E-10	-0.9515E-09	0.4069E-09	0.4887E-10	-0.1284E-10	0.5223E-12
48	0.1481E-01	0.6943E-01	0.2930E-01	0.3100E-02	0.1056E-02	-0.3395E-02
49	0.1477E-01	0.5130E-01	0.2400E-01	0.3212E-02	0.1054E-02	-0.3856E-02
50	0.1474E-01	0.3087E-01	0.1876E-01	0.3325E-02	0.1034E-02	-0.4318E-02
51	0.1472E-01	0.2429E-01	0.1721E-01	0.3359E-02	0.1025E-02	-0.4457E-02
52	0.1468E-01	-0.1610E-02	0.1168E-01	0.3483E-02	0.9750E-03	-0.4967E-02
53	0.1450E-01	-0.1452E+00	-0.6991E-02	0.4029E-02	0.4850E-03	-0.6677E-02
54	0.1421E-01	-0.3999E+00	0.1573E-04	0.4835E-02	-0.1042E-02	-0.7135E-02
55	0.1422E-01	-0.4052E+00	0.8111E-03	0.4852E-02	-0.1085E-02	-0.7118E-02
56	0.8724E-02	-0.4501E+00	0.5711E-02	0.4962E-02	-0.1575E-02	-0.6881E-02
57	0.5049E-02	-0.4613E+00	0.5709E-02	0.4984E-02	-0.1605E-02	-0.6795E-02
58	0.1810E-02	-0.4713E+00	0.5708E-02	0.4998E-02	-0.1602E-02	-0.6718E-02
59	-0.3004E-02	-0.4863E+00	0.5706E-02	0.5010E-02	-0.1571E-02	-0.6602E-02
103	-0.3034E-02	-0.4622E+00	0.5156E-03	0.4969E-02	-0.1027E-02	-0.6201E-02
104	-0.3156E-02	-0.4086E+00	-0.2291E-02	0.4805E-02	0.1276E-03	-0.5626E-02
105	-0.3196E-02	-0.3916E+00	-0.1833E-02	0.4752E-02	0.1369E-03	-0.5775E-02
106	-0.3235E-02	-0.3739E+00	-0.1614E-02	0.4699E-02	-0.3193E-04	-0.5988E-02
107	-0.3386E-02	-0.3017E+00	-0.1262E-01	0.4497E-02	-0.2331E-02	-0.6460E-02
109	-0.7546E-02	-0.2987E+00	-0.1651E-01	0.4470E-02	-0.2823E-02	-0.6473E-02
111	-0.1563E-01	-0.3138E+00	-0.1651E-01	0.4499E-02	-0.1526E-02	-0.6482E-02
112	-0.1721E-01	-0.3202E+00	-0.1651E-01	0.4537E-02	-0.2105E-03	-0.6487E-02
60	-0.7669E-02	-0.5013E+00	0.5704E-02	0.5011E-02	-0.1525E-02	-0.6495E-02
61	-0.1217E-01	-0.5764E+00	0.5702E-02	0.5005E-02	-0.1465E-02	-0.6388E-02
62	-0.1254E-01	-0.5176E+00	0.5702E-02	0.5004E-02	-0.1459E-02	-0.6379E-02
63	-0.1767E-01	-0.5130E+00	0.8835E-03	0.4936E-02	-0.1162E-02	-0.6172E-02
64	-0.1768E-01	-0.4457E+00	-0.9815E-02	0.4738E-02	-0.7572E-03	-0.6122E-02
65	-0.1769E-01	-0.4150E+00	-0.1308E-01	0.4649E-02	-0.5361E-03	-0.6195E-02
131	0.2433E-02	-0.4150E+00	0.2017E-02	0.4645E-02	-0.5361E-03	-0.6191E-02
132	0.2257E-01	-0.4150E+00	0.1713E-01	0.4646E-02	-0.5361E-03	-0.6192E-02
66	-0.1768E-01	-0.3836E+00	-0.1518E-01	0.4605E-02	-0.3205E-03	-0.6330E-02
67	-0.1768E-01	-0.3565E+00	-0.1618E-07	0.4567E-02	-0.1641E-03	-0.6428E-02
68	-0.1768E-01	-0.3371E+00	-0.1651E-01	0.4541E-02	-0.6861E-04	-0.6487E-02
69	-0.1768E-01	-0.3176E+00	-0.1648E-01	0.4517E-02	0.6864E-04	-0.6538E-02
70	-0.1768E-01	-0.3028E+00	-0.1621E-01	0.4499E-02	0.1624E-03	-0.6570E-02
71	-0.1768E-01	-0.2696E+00	-0.1490E-01	0.4460E-02	0.3426E-03	-0.6621E-02
133	0.3809E-02	-0.2698E+00	-0.3889E-03	0.4461E-02	0.3426E-03	-0.6615E-02
134	0.2532E-01	-0.2698E+00	0.1412E-01	0.4461E-02	0.3426E-03	-0.6616E-02
72	-0.1767E-01	-0.2364E+00	-0.1278E-01	0.4408E-02	0.4898E-03	-0.6684E-02
73	-0.1761E-01	-0.9180E-01	0.2841E-02	0.4176E-02	0.8164E-03	-0.6015E-02
74	-0.1760E-01	-0.7695E-01	0.4923E-02	0.4150E-02	0.8093E-03	-0.5840E-02
75	-0.1759E-01	-0.4865E-01	0.8867E-02	0.4098E-02	0.7133E-03	-0.5427E-02
76	-0.1757E-01	-0.2263E-01	0.1206E-01	0.4046E-02	0.5081E-03	-0.4931E-02
77	-0.1757E-01	-0.1062E-01	0.1320E-01	0.4020E-02	0.3648E-03	-0.4651E-02
78	-0.1757E-01	0.7035E-02	0.1446E-01	0.3759E-02	0.2695E-03	-0.4174E-02
9021	-0.1757E-01	0.8484E-01	0.1413E-01	0.1898E-02	-0.2366E-03	-0.1482E-02
79	-0.1757E-01	0.1037E+00	0.3663E-02	0.3693E-04	-0.4377E-03	-0.6715E-04
80	-0.1757E-01	0.1031E+00	-0.1120E-02	-0.6702E-03	-0.4311E-03	0.1286E-03
81	-0.1757E-01	0.1028E+00	-0.2272E-02	-0.8449E-03	-0.4225E-03	0.1478E-03
82	-0.1610E-01	0.9788E-01	-0.3799E-02	-0.1285E-02	-0.3731E-03	0.2078E-03
9022	-0.8045E-02	0.5504E-01	-0.3806E-02	-0.1862E-02	-0.2610E-03	0.1699E-03
83	-0.2484E-02	0.1154E-01	-0.3814E-02	-0.1332E-02	-0.1779E-03	0.1321E-03
84	-0.2077E-02	0.8537E-02	-0.3815E-02	-0.1228E-02	-0.1716E-03	0.1286E-03
85	-0.1795E-02	0.6542E-02	-0.3815E-02	-0.1148E-02	-0.1673E-03	0.1262E-03
86	-0.3506E-03	0.3618E-03	-0.1148E-02	-0.5301E-03	-0.1143E-03	0.1036E-03
87	0.2657E-10	0.1139E-08	0.2513E-09	-0.3724E-09	-0.4033E-10	0.1178E-09

COUPLED MODE SHAPES (FOR SECONDARY MODE) MODE 9
FREQUENCY (HZ.) = 3.89836

MODAL DISP AT PRIMARY SYSTEM CONNETING DOF

DOF #	DISPLACEMENT
3041	0.1986E-06
3042	0.0000E+00
3043	-0.1324E-06
3061	0.1555E-06
3063	-0.4448E-06
3072	0.0000E+00
3081	-0.1538E-06
3103	-0.1601E-05
3121	-0.1431E-05
3122	0.0000E+00
3123	-0.2090E-05
3091	-0.3451E-06
3052	0.0000E+00
3093	-0.9922E-06

MODAL DISPLACEMENTS AT SECONDARY SYSTEM DOF

NODE	DX	DY	DZ	ROT-X	ROT-Y	ROT-Z
1	-0.6754E-09	-0.5857E-10	-0.1628E-09	-0.3769E-10	0.5327E-10	0.8615E-10
2	-0.1151E-03	0.1180E-03	-0.1110E-03	-0.5533E-04	0.3363E-04	0.1070E-03
3	-0.3039E-03	0.2663E-02	-0.3791E-03	-0.1718E-03	-0.2192E-04	0.3451E-03
4	-0.3254E-03	0.1747E-01	0.3552E-02	-0.3351E-03	-0.3045E-03	0.7650E-03
5	-0.3362E-03	0.2926E-01	0.8950E-02	-0.4172E-03	-0.5122E-03	0.1001E-02
9001	-0.8632E-03	0.3119E-01	0.9752E-02	-0.4252E-03	-0.5721E-03	0.1067E-02
9002	-0.2380E-02	0.3270E-01	0.9982E-02	-0.4300E-03	-0.6247E-03	0.1130E-02
6	-0.4561E-02	0.3328E-01	0.9488E-02	-0.4396E-03	-0.6714E-03	0.1187E-02
7	-0.7277E-02	0.3328E-01	0.8487E-02	-0.4475E-03	-0.7243E-03	0.1218E-02
9003	-0.5244E-01	0.3328E-01	-0.8076E-02	-0.3933E-03	-0.1590E-02	0.1001E-02
9004	-0.6497E-01	0.3327E-01	-0.1636E-01	0.5437E-06	-0.2456E-02	-0.5416E-03
9	0.2290E-02	0.3326E-01	-0.4176E-02	0.7151E-03	-0.3322E-02	-0.3319E-02
10	0.2527E-01	0.3326E-01	0.8643E-03	0.8701E-03	-0.3472E-02	-0.3867E-02
9005	0.1767E+00	0.3326E-01	0.3643E-01	0.1273E-02	-0.4208E-02	-0.5527E-02
9006	0.3543E+00	0.3325E-01	0.7292E-01	0.9356E-03	-0.4943E-02	-0.5569E-02
11	0.5109E+00	0.3324E-01	0.8791E-01	-0.9123E-04	-0.5679E-02	-0.4245E-02
12	0.5528E+00	0.3324E-01	0.8433E-01	-0.5923E-03	-0.5932E-02	-0.3532E-02
9007	0.5592E+00	0.3155E-01	0.8605E-01	-0.7650E-03	-0.5967E-02	-0.3273E-02
9008	0.5636E+00	0.2725E-01	0.9312E-01	-0.9146E-03	-0.5995E-02	-0.3008E-02
13	0.5650E+00	0.2186E-01	0.1019E+00	-0.1048E-02	-0.6039E-02	-0.2738E-02
14	0.5650E+00	0.1460E-01	0.1206E+00	-0.1235E-02	-0.6081E-02	-0.2529E-02
15	0.5650E+00	0.6134E-03	0.1574E+00	-0.1641E-02	-0.6157E-02	-0.2063E-02
16	0.5650E+00	-0.2051E-01	0.2442E+00	-0.2587E-02	-0.6270E-02	-0.1017E-02
17	0.5581E+00	-0.1970E-01	0.2606E+00	-0.2836E-02	-0.6296E-02	-0.6325E-03
18	0.5272E+00	-0.6862E-02	0.2917E+00	-0.3165E-02	-0.6317E-02	-0.1418E-03
19	0.4834E+00	0.1796E-01	0.3356E+00	-0.3597E-02	-0.6316E-02	0.5194E-03
20	0.3688E+00	0.1175E+00	0.4501E+00	-0.4555E-02	-0.6111E-02	0.2083E-02
21	0.3437E+00	0.1360E+00	0.4481E+00	-0.4939E-02	-0.5988E-02	0.2605E-02
9009	0.2113E+00	0.1360E+00	0.2293E+00	-0.5843E-02	-0.5189E-02	0.3718E-02
9010	0.6991E-01	0.1360E+00	-0.6802E-02	-0.5723E-02	-0.4391E-02	0.2986E-02
22	-0.9239E-05	0.1360E+00	-0.2131E+00	-0.4359E-02	-0.3592E-02	0.1263E-03
23	0.2573E-02	0.1360E+00	-0.2483E+00	-0.3916E-02	-0.3423E-02	-0.7619E-03
24	0.2876E-01	0.1360E+00	-0.3049E+00	-0.2971E-02	-0.3097E-02	-0.2353E-02
9011	0.1445E+00	0.1360E+00	-0.3694E+00	-0.8684E-03	-0.2432E-02	-0.4276E-02
9012	0.2959E+00	0.1360E+00	-0.3635E+00	0.1173E-02	-0.1767E-02	-0.4516E-02
25	0.4304E+00	0.1360E+00	-0.2963E+00	0.2733E-02	-0.1102E-02	-0.3329E-02
26	0.4595E+00	0.1360E+00	-0.2684E+00	0.3041E-02	-0.9131E-03	-0.2773E-02
9013	0.5148E+00	0.1360E+00	-0.1504E+00	0.3424E-02	-0.2076E-03	-0.2322E-03
9014	0.4724E+00	0.1359E+00	-0.4203E-01	0.2444E-02	0.4979E-03	0.2614E-02
27	0.3339E+00	0.1359E+00	0.5360E-02	-0.3174E-04	0.1203E-02	0.5086E-02
28	0.2616E+00	0.1359E+00	-0.3487E-02	-0.1349E-02	0.1467E-02	0.5809E-02
29	0.1369E+00	0.1359E+00	-0.4844E-01	-0.2935E-02	0.1866E-02	0.6575E-02
9015	-0.1173E+00	0.1358E+00	-0.1700E+00	-0.2910E-02	0.2609E-02	0.6748E-02
9016	-0.3474E+00	0.1358E+00	-0.2201E+00	0.8449E-03	0.3353E-02	0.5320E-02
30	-0.4995E+00	0.1357E+00	-0.6515E-01	0.8015E-02	0.4097E-02	0.2665E-02
31	-0.5022E+00	0.1357E+00	-0.5702E-01	0.6252E-02	0.4117E-02	0.2581E-02
32	-0.5038E+00	0.1257E+00	-0.3354E-01	0.9549E-02	0.4223E-02	0.2140E-02
35	-0.4947E+00	0.9859E-01	-0.2257E-01	0.1085E-01	0.4348E-02	0.1781E-02
37	-0.4574E+00	-0.1354E-02	-0.2258E-01	0.1261E-01	0.4495E-02	0.8441E-03
9017	-0.3051E+00	-0.4994E+00	-0.2264E-01	0.1684E-01	0.4814E-02	-0.2763E-02
9018	-0.1532E+00	-0.1027E+01	-0.2270E-01	0.1469E-01	0.4419E-02	-0.6350E-02
38	-0.2904E-01	-0.1394E+01	-0.2276E-01	0.7172E-02	0.3071E-02	-0.9947E-02
39	-0.4208E-03	-0.1451E+01	-0.2277E-01	0.3788E-02	0.2420E-02	-0.1110E-01
9019	0.4468E-01	-0.1372E+01	-0.2283E-01	-0.8752E-02	0.2955E-03	-0.1488E-01
40	0.2431E-01	-0.8473E+00	-0.2289E-01	-0.2201E-01	-0.1414E-02	-0.1867E-01
41	-0.3459E-01	-0.3532E-01	-0.2294E-01	-0.3301E-01	-0.2526E-02	-0.2194E-01
43	-0.4453E-01	0.1017E-01	-0.1265E-01	-0.3623E-01	-0.2890E-02	-0.2238E-01
44	-0.4453E-01	-0.2215E-01	-0.8460E-02	-0.3689E-01	-0.2947E-02	-0.2251E-01
45	-0.4454E-01	-0.1088E+00	0.3065E-02	-0.3866E-01	-0.3119E-02	-0.2268E-01
9020	-0.4454E-01	-0.6623E+00	0.1065E+00	-0.5187E-01	-0.3922E-02	-0.1259E-01
46	-0.4455E-01	-0.6454E+00	0.2162E+00	-0.6509E-01	-0.3569E-02	0.1723E-01
47	-0.4455E-01	-0.5876E+00	0.2268E+00	-0.6648E-01	-0.3467E-02	0.2149E-01
91	-0.1098E+00	-0.5876E+00	0.2719E-01	-0.6666E-01	-0.3584E-02	0.2244E-01
92	-0.3987E+00	-0.5871E+00	-0.7292E+00	-0.6784E-01	-0.4426E-02	0.2877E-01
93	-0.5332E+00	-0.3302E+00	-0.9854E+00	-0.6816E-01	-0.5384E-02	0.3357E-01
94	-0.5509E+00	-0.1092E+00	-0.9854E+00	-0.6766E-01	-0.5466E-02	0.3570E-01
95	-0.5784E+00	0.2264E+00	-0.9854E+00	-0.6593E-01	-0.5462E-02	0.3899E-01
96	-0.6056E+00	0.5505E+00	-0.9854E+00	-0.6305E-01	-0.5324E-02	0.4227E-01
97	-0.6069E+00	0.5663E+00	-0.9854E+00	-0.6287E-01	-0.5314E-02	0.4244E-01
98	-0.4558E+00	0.7915E+00	-0.7696E+00	-0.5411E-01	-0.4324E-02	0.4722E-01
100	-0.2380E+00	0.7916E+00	-0.5349E+00	-0.5016E-01	-0.3979E-02	0.4962E-01
101	-0.8675E-01	0.7917E+00	-0.3884E+00	-0.4751E-01	-0.3749E-02	0.5128E-01
102	0.1110E+00	0.7920E+00	-0.2112E+00	-0.4696E-01	-0.3979E-02	0.5427E-01
113	-0.1043E+00	0.1042E+01	-0.3884E+00	-0.3306E-01	-0.1703E-02	0.4480E-01
114	-0.1080E+00	0.1157E+01	-0.3885E+00	-0.2198E-01	-0.1528E-03	0.3877E-01
115	-0.1058E+00	0.1230E+01	-0.3885E+00	-0.1326E-01	0.1049E-02	0.3274E-01
116	-0.9510E-01	0.1282E+01	-0.3885E+00	-0.4834E-02	0.2173E-02	0.2387E-01

118	-0.1349E+00	0.1289E+01	-0.3925E+00	-0.3389E-03	0.3161E-02	0.1812E-01
9023	-0.3016E+00	0.1287E+01	-0.8583E-01	0.2363E-01	0.5914E-02	-0.3675E-02
120	-0.8045E-01	0.1286E+01	0.1057E+01	0.5817E-01	0.8668E-02	-0.8937E-02
122	-0.4103E-01	0.1143E+01	0.1194E+01	0.6601E-01	0.8899E-02	-0.8226E-02
124	-0.3203E-02	0.8547E+00	0.1194E+01	0.6941E-01	0.8429E-02	-0.7360E-02
125	0.8270E-01	0.1486E+00	0.1194E+01	0.6703E-01	0.8078E-02	-0.5291E-02
127	0.8966E-01	0.3084E-02	0.1053E+01	0.5980E-01	0.7663E-02	-0.4511E-02
128	0.1648E-01	0.1818E-02	0.1701E-01	0.1829E-01	0.4518E-02	-0.1464E-02
9024	0.1469E-02	0.9092E-03	-0.7610E-01	-0.3689E-02	0.2259E-02	-0.3085E-03
130	-0.3379E-09	0.1988E-07	-0.1025E-07	-0.1231E-08	0.1283E-09	0.8483E-11
48	-0.4454E-01	-0.5199E+00	0.2368E+00	-0.6741E-01	-0.3174E-02	0.2433E-01
49	-0.4451E-01	-0.3851E+00	0.2514E+00	-0.6896E-01	-0.2623E-02	0.3043E-01
50	-0.4449E-01	-0.2155E+00	0.2631E+00	-0.7051E-01	-0.2030E-02	0.3825E-01
51	-0.4443E-01	-0.1566E+00	0.2660E+00	-0.7098E-01	-0.1836E-02	0.4094E-01
52	-0.4445E-01	0.9656E-01	0.2742E+00	-0.7269E-01	-0.1094E-02	0.5208E-01
53	-0.4433E-01	0.1913E+01	0.2568E+00	-0.8021E-01	0.2886E-02	0.9311E-01
54	-0.4415E-01	0.5653E+01	0.2029E-01	-0.9131E-01	0.1059E-01	0.1063E+00
55	-0.4415E-01	0.5733E+01	0.1235E-01	-0.9154E-01	0.1078E-01	0.1059E+00
56	0.4086E-02	0.6471E+01	-0.3211E-01	-0.9267E-01	0.1418E-01	0.1011E+00
57	0.3688E-01	0.6680E+01	-0.3207E-01	-0.9279E-01	0.1491E-01	0.9935E-01
58	0.6767E-01	0.6866E+01	-0.3203E-01	-0.9276E-01	0.1545E-01	0.9774E-01
59	0.1154E+00	0.7144E+01	-0.3197E-01	-0.9246E-01	0.1590E-01	0.9544E-01
103	0.1157E+00	0.6799E+01	0.2093E-01	-0.9095E-01	0.1071E-01	0.8698E-01
104	0.1171E+00	0.6082E+01	0.5761E-01	-0.8482E-01	0.1589E-03	0.7292E-01
105	0.1175E+00	0.5862E+01	0.5799E-01	-0.8264E-01	0.3671E-03	0.7486E-01
106	0.1180E+00	0.5632E+01	0.5146E-01	-0.8085E-01	0.2359E-02	0.7621E-01
107	0.1196E+00	0.4670E+01	0.2023E+00	-0.7326E-01	0.2667E-01	0.8788E-01
109	0.1665E+00	0.4646E+01	0.2464E+00	-0.7219E-01	0.3158E-01	0.8898E-01
111	0.2582E+00	0.4888E+01	0.2464E+00	-0.7135E-01	0.1661E-01	0.9071E-01
112	0.2726E+00	0.4989E+01	0.2463E+00	-0.7138E-01	0.1791E-02	0.9147E-01
60	0.1637E+00	0.7421E+01	-0.3190E-01	-0.9191E-01	0.1609E-01	0.9327E-01
61	0.2123E+00	0.7696E+01	-0.3184E-01	-0.9112E-01	0.1605E-01	0.9110E-01
62	0.2163E+00	0.7719E+01	-0.3183E-01	-0.9104E-01	0.1604E-01	0.9092E-01
63	0.2755E+00	0.7725E+01	0.2563E-01	-0.8756E-01	0.1439E-01	0.8692E-01
64	0.2757E+00	0.6783E+01	0.1639E+00	-0.8034E-01	0.9996E-02	0.8580E-01
65	0.2758E+00	0.6352E+01	0.2071E+04	-0.7705E-01	0.6924E-02	0.8720E-01
131	-0.7721E-02	0.6352E+01	-0.4302E-01	-0.7698E-01	0.6924E-02	0.8720E-01
132	-0.2913E+00	0.6352E+01	-0.2934E+00	-0.7698E-01	0.6924E-02	0.8721E-01
66	0.2759E+00	0.5910E+01	0.2332E+00	-0.7474E-01	0.5785E-02	0.8916E-01
67	0.2759E+00	0.5528E+01	0.2440E+00	-0.7278E-01	0.1548E-02	0.9061E-01
68	0.2760E+00	0.5254E+01	0.2463E+00	-0.7140E-01	0.2063E-03	0.9152E-01
69	0.2761E+00	0.4978E+01	0.2440E+00	-0.7004E-01	-0.1540E-02	0.9233E-01
70	0.2761E+00	0.4770E+01	0.2390E+00	-0.6902E-01	-0.2709E-02	0.9286E-01
71	0.2763E+00	0.4303E+01	0.2193E+00	-0.6675E-01	-0.4876E-02	0.9377E-01
133	-0.2837E-01	0.4303E+01	0.2147E-02	-0.6676E-01	-0.4876E-02	0.9373E-01
134	-0.3332E+00	0.4303E+01	-0.2150E-00	-0.6677E-01	-0.4876E-02	0.9374E-01
72	0.2763E+00	0.3830E+01	0.1902E+00	-0.6438E-01	-0.6485E-02	0.9432E-01
73	0.2765E+00	0.1432E+01	0.1662E-01	-0.5383E-01	-0.7315E-02	0.8040E-01
74	0.2765E+00	0.1634E+01	-0.2076E-02	-0.5254E-01	-0.6819E-02	0.7715E-01
75	0.2755E+00	0.1265E+01	-0.3367E-01	-0.5027E-01	-0.5774E-02	0.6959E-01
76	0.2766E+00	0.9379E+00	-0.5986E-01	-0.4790E-01	-0.4558E-02	0.6060E-01
77	0.2766E+00	0.7520E+00	-0.7080E-01	-0.4671E-01	-0.4075E-02	0.5555E-01
78	0.2766E+00	0.5795E+00	-0.8561E-01	-0.4393E-01	-0.3332E-02	0.5061E-01
9021	0.2765E+00	-0.4348E+00	-0.1142E+00	-0.2405E-01	0.1042E-02	0.2244E-01
79	0.2765E+00	-0.8224E+00	-0.4155E-01	-0.4172E-02	0.3730E-02	0.6899E-02
80	0.2765E+00	-0.8812E+00	0.2387E-02	0.3380E-02	0.4296E-02	0.4360E-02
81	0.2765E+00	-0.8925E+00	0.1410E-01	0.5247E-02	0.4397E-02	0.4020E-02
82	0.2582E+00	-0.8745E+00	0.3108E-01	0.1002E-01	0.4692E-02	0.2873E-02
9022	0.1373E+00	-0.5067E+00	0.3113E-01	0.1674E-01	0.4605E-02	0.1389E-02
83	0.5349E-01	-0.1065E+00	0.3117E-01	0.1250E-01	0.3268E-02	-0.9481E-04
84	0.2607E-01	-0.7827E-01	0.3117E-01	0.1156E-01	0.3082E-02	-0.2299E-03
85	0.2103E-01	-0.5947E-01	0.3118E-01	0.1084E-01	0.2943E-02	-0.3205E-03
86	0.2690E-02	-0.2786E-02	0.9473E-02	0.5076E-02	0.1672E-02	-0.7154E-03
87	0.1317E-08	-0.1130E-07	-0.1380E-08	0.3539E-08	0.7828E-09	-0.9526E-09

COUPLED MODE SHAPES (FOR SECONDARY MODE) MODE 10
FREQUENCY (HZ.) = 4.25906

MODAL DISP AT PRIMARY SYSTEM CONNETING DOF

DOF #	DISPLACEMENT
3041	0.1031E-05
3042	0.0000E+00
3043	0.8386E-06
3061	0.2513E-05
3063	0.3818E-05
3072	0.0000E+00
3081	0.4025E-05
3103	0.1015E-04
3121	0.7854E-05
3122	0.0000E+00
3123	0.1324E-04
3091	0.4646E-05
3092	0.0000E+00
3093	0.6286E-05

MODAL DISPLACEMENTS AT SECONDARY SYSTEM DOF

NODE	DX	DY	DZ	ROT-X	ROT-Y	ROT-Z
1	0.1880E-08	-0.5642E-08	-0.1620E-07	-0.9845E-09	0.1481E-07	-0.2875E-06
2	-0.3514E-01	-0.9053E-02	-0.3529E-01	-0.5764E-03	0.1459E-01	-0.3055E-02
3	-0.1852E+00	-0.1020E+00	-0.4800E+00	-0.1549E-02	0.4554E-01	-0.8556E-02
4	-0.1851E+00	-0.4031E+00	-0.2253E+01	-0.3662E-02	0.8478E-01	-0.1307E-01
5	-0.1851E+00	-0.5307E+00	-0.3482E+01	-0.4724E-02	0.9827E-01	-0.1320E-01
9001	-0.1785E+00	-0.6054E+00	-0.3672E+01	-0.5085E-02	0.1012E+00	-0.1302E-01
9002	-0.1608E+00	-0.6232E+00	-0.3820E+01	-0.5600E-02	0.1037E+00	-0.1279E-01
6	-0.1370E+00	-0.6296E+00	-0.3884E+01	-0.5804E-02	0.1058E+00	-0.1251E-01

7	-0.1091E+00	-0.6296E+00	-0.3897E+01	-0.5714E-02	0.1081E+00	-0.1231E-01
9003	0.2564E+00	-0.6298E+00	-0.3920E+01	0.8555E-02	0.2454E+00	-0.6786E-02
9004	0.3395E+00	-0.6300E+00	-0.3923E+01	0.4309E-01	0.1827E+00	0.2952E-02
9	-0.4980E-02	-0.6301E+00	-0.5422E+00	0.9152E-01	0.2201E+00	0.1635E-01
10	-0.1175E+00	-0.6302E+00	0.3085E-01	0.1010E+00	0.2265E+00	0.1890E-01
9005	-0.8826E+00	-0.6302E+00	0.3787E+01	0.3345E+00	0.2582E+00	0.2953E-01
9006	-0.1938E+01	-0.6303E+00	0.8179E+01	0.1425E+00	0.2899E+00	0.3763E-01
11	-0.3225E+01	-0.6304E+00	0.1250E+02	0.1317E+00	0.3216E+00	0.4476E-01
12	-0.3719E+01	-0.6304E+00	0.1388E+02	0.1253E+00	0.3326E+00	0.4740E-01
9007	-0.3809E+01	-0.6063E+00	0.1395E+02	0.1229E+00	0.3348E+00	0.4834E-01
9008	-0.3876E+01	-0.5392E+00	0.1365E+02	0.1206E+00	0.3375E+00	0.4931E-01
13	-0.3901E+01	-0.4458E+00	0.1308E+02	0.1187E+00	0.3404E+00	0.5031E-01
14	-0.3901E+01	-0.3062E+00	0.1214E+02	0.1165E+00	0.3425E+00	0.5108E-01
15	-0.3901E+01	0.5129E-02	0.1007E+02	0.1116E+00	0.3471E+00	0.5279E-01
16	-0.3901E+01	0.7582E+00	0.5160E+01	0.1002E+00	0.3560E+00	0.5639E-01
17	-0.3508E+01	0.8113E+00	0.4212E+01	0.9753E-01	0.3587E+00	0.5742E-01
18	-0.1742E+01	0.6308E+00	0.2446E+01	0.9266E-01	0.3615E+00	0.5860E-01
19	0.7747E+00	0.4210E+00	-0.7044E-01	0.8651E-01	0.3636E+00	0.5994E-01
20	0.7431E+01	0.9788E-01	-0.6727E+01	0.7098E-01	0.3594E+00	0.6168E-01
21	0.8145E+01	0.7950E-01	-0.7421E+01	0.6649E-01	0.3553E+00	0.6338E-01
9009	0.5514E+01	0.7962E-01	-0.5017E+01	0.5578E-01	0.3293E+00	0.6788E-01
9010	0.2777E+01	0.7974E-01	-0.2849E+01	0.5269E-01	0.3033E+00	0.6639E-01
22	0.4021E+00	0.7985E-01	-0.8160E+00	0.4788E-01	0.2773E+00	0.4877E-01
23	0.1324E-01	0.7987E-01	-0.4162E+00	0.4617E-01	0.2717E+00	0.4253E-01
24	-0.5795E+00	0.7991E-01	0.3075E+00	0.4203E-01	0.2611E+00	0.3005E-01
9011	-0.1191E+01	0.8000E-01	0.1524E+01	0.3008E-01	0.2395E+00	0.7290E-02
9012	-0.1117E+01	0.8008E-01	0.2277E+01	0.1460E-01	0.2178E+00	-0.1083E-01
25	-0.5362E+00	0.8016E-01	0.2488E+01	-0.1814E-02	0.1962E+00	-0.2273E-01
26	-0.3096E+00	0.8019E-01	0.2450E+01	-0.6280E-02	0.1900E+00	-0.2482E-01
9013	0.6370E+00	0.8027E-01	0.1973E+01	-0.1964E-01	0.1670E+00	-0.2713E-01
9014	0.1517E+01	0.8035E-01	0.1144E+01	-0.2564E-01	0.1440E+00	-0.2123E-01
27	0.2066E+01	0.8042E-01	0.2717E+00	-0.2173E-01	0.1211E+00	-0.8902E-02
28	0.2147E+01	0.8045E-01	0.9456E-02	-0.1745E-01	0.1125E+00	-0.3119E-02
29	0.2119E+01	0.8049E-01	-0.2663E+00	-0.1034E-01	0.9950E-01	0.5806E-02
9015	0.1619E+01	0.8056E-01	-0.4449E+00	0.1006E-03	0.7528E-01	0.2034E-01
9016	0.6672E+00	0.8063E-01	-0.3113E+00	0.6245E-02	0.5106E-01	0.2544E-01
30	-0.4864E+00	0.8070E-01	-0.4002E-01	0.7370E-02	0.2683E-01	0.3093E-01
31	-0.5173E+00	0.8070E-01	-0.3265E-01	0.7327E-02	0.2619E-01	0.3086E-01
32	-0.5716E+00	0.7284E-01	-0.1352E-01	0.7059E-02	0.2418E-01	0.3068E-01
35	-0.5445E+00	0.5454E-01	-0.5865E-02	0.6773E-02	0.2175E-01	0.3053E-01
37	-0.3777E+00	-0.9134E-03	-0.5839E-02	0.6416E-02	0.1790E-01	0.2947E-01
9017	0.4034E-03	-0.1868E+00	-0.5739E-02	0.4922E-02	0.6304E-02	0.2536E-01
9018	0.8164E-01	-0.3122E+00	-0.5639E-02	0.2725E-02	-0.4388E-03	0.2130E-01
38	0.2368E-01	-0.3591E+00	-0.5539E-02	0.1358E-03	-0.2277E-02	0.1722E-01
39	0.1806E-02	-0.3560E+00	-0.5507E-02	-0.7201E-03	-0.1816E-02	0.1591E-01
9019	-0.2647E-01	-0.2890E+00	-0.5401E-02	-0.3058E-02	-0.4519E-04	0.1161E-01
40	-0.1437E-01	-0.1602E+00	-0.5295E-02	-0.4274E-02	0.5477E-03	0.7313E-02
41	-0.2660E-02	-0.3292E-01	-0.5204E-02	-0.4170E-02	0.8773E-04	0.3600E-02
43	-0.2793E-02	-0.6324E-02	-0.4712E-02	-0.3828E-02	-0.2175E-03	0.2659E-02
44	-0.2792E-02	-0.2593E-02	-0.4357E-02	-0.3775E-02	-0.2428E-03	0.2511E-02
45	-0.2788E-02	0.6212E-02	-0.3299E-02	-0.3635E-02	-0.2706E-03	0.2126E-02
9020	-0.2764E-02	0.3322E-01	0.4005E-02	-0.2586E-02	-0.2275E-03	0.4441E-05
46	-0.2740E-02	0.1896E-01	0.8980E-02	-0.1536E-02	-0.1080E-03	-0.7621E-03
47	-0.2738E-02	0.1665E-01	0.9280E-02	-0.1426E-02	-0.9110E-04	-0.7631E-03
91	-0.4614E-03	0.1665E-01	0.5037E-02	-0.1365E-02	-0.9718E-04	-0.7484E-03
92	0.7416E-02	0.1664E-01	-0.8928E-02	-0.1105E-02	-0.1409E-03	-0.6585E-03
93	0.9194E-02	0.2019E-01	-0.1273E-01	-0.8661E-03	-0.1713E-03	-0.6006E-03
94	0.8626E-02	0.2289E-01	-0.1273E-01	-0.8059E-03	-0.1769E-03	-0.5764E-03
95	0.7723E-02	0.2671E-01	-0.1273E-01	-0.7302E-03	-0.1808E-03	-0.5391E-03
96	0.6817E-02	0.3020E-01	-0.1273E-01	-0.6759E-03	-0.1784E-03	-0.5017E-03
97	0.6772E-02	0.3037E-01	-0.1273E-01	-0.6734E-03	-0.1782E-03	-0.4999E-03
98	0.4380E-02	0.3277E-01	-0.1038E-01	-0.6028E-03	-0.1561E-03	-0.4416E-03
100	0.2459E-02	0.3277E-01	-0.9728E-02	-0.5736E-03	-0.1437E-03	-0.4085E-03
101	0.1266E-02	0.3277E-01	-0.6037E-02	-0.5515E-03	-0.1355E-03	-0.3842E-03
102	-0.1255E-03	0.3277E-01	-0.3910E-02	-0.5785E-03	-0.1230E-03	-0.3555E-03
113	0.4341E-03	0.3535E-01	-0.6038E-02	-0.2565E-03	-0.1431E-03	-0.3431E-03
114	-0.1858E-03	0.3594E-01	-0.6039E-02	-0.4258E-04	-0.1481E-03	-0.3049E-03
115	-0.8227E-03	0.3575E-01	-0.6040E-02	0.1104E-03	-0.1510E-03	-0.2667E-03
116	-0.1772E-02	0.3461E-01	-0.6042E-02	0.2206E-03	-0.1517E-03	-0.2105E-03
118	-0.1691E-02	0.3406E-01	-0.5518E-02	0.2136E-03	-0.1527E-03	-0.1744E-03
9021	0.9910E-03	0.3405E-01	0.4092E-02	0.5415E-03	-0.1341E-03	-0.1872E-04
120	0.8055E-03	0.3401E-01	0.3106E-01	0.1452E-02	-0.1155E-03	0.2586E-04
122	0.4909E-03	0.3038E-01	0.3455E-01	0.1698E-02	-0.1123E-03	0.2628E-04
124	0.2246E-04	0.2289E-01	0.3455E-01	0.1816E-02	-0.1081E-03	0.2644E-04
125	-0.1010E-02	0.4070E-02	0.3455E-01	0.1820E-02	-0.9604E-04	0.2682E-04
127	-0.1159E-02	0.8184E-04	0.3066E-01	0.1666E-02	-0.9010E-04	0.2744E-04
129	-0.4897E-03	0.4825E-04	0.5813E-03	0.5522E-03	-0.5312E-04	0.2301E-04
9024	-0.1385E-03	0.2413E-04	-0.2264E-02	-0.1087E-03	-0.2656E-04	0.1406E-04
130	-0.2046E-11	0.5275E-09	-0.3073E-09	-0.3646E-10	-0.1508E-11	0.1228E-11
48	-0.2734E-02	0.1432E-01	0.9513E-02	-0.1419E-02	-0.6538E-04	-0.7821E-03
49	-0.2729E-02	0.1034E-01	0.9735E-02	-0.1408E-02	-0.2491E-04	-0.7962E-03
50	-0.2724E-02	0.6355E-02	0.9762E-02	-0.1397E-02	0.1228E-04	-0.7878E-03
51	-0.2723E-02	0.5173E-02	0.9735E-02	-0.1394E-02	0.2274E-04	-0.7809E-03
52	-0.2717E-02	0.9683E-03	0.9507E-02	-0.1382E-02	0.5827E-04	-0.7379E-03
53	-0.2692E-02	-0.1475E-01	0.6668E-02	-0.1329E-02	0.1592E-03	-0.5471E-03
54	-0.2654E-02	-0.3192E-01	0.7766E-03	-0.1252E-02	0.1338E-03	-0.4787E-03
55	-0.2653E-02	-0.3228E-01	0.6795E-03	-0.1250E-02	0.1313E-03	-0.4799E-03
56	-0.2219E-02	-0.2946E-01	0.2293E-03	-0.1229E-02	0.9717E-04	-0.5030E-03
57	-0.2004E-02	-0.2670E-01	0.2306E-03	-0.1222E-02	0.8194E-04	-0.5108E-03
58	-0.1864E-02	-0.2426E-01	0.2318E-03	-0.1215E-02	0.6747E-04	-0.5177E-03
59	-0.1697E-02	-0.2063E-01	0.2335E-03	-0.1203E-02	0.5330E-04	-0.5280E-03
103	-0.1697E-02	-0.1863E-01	0.4400E-03	-0.1185E-02	0.6034E-04	-0.5547E-03
104	-0.1694E-02	-0.1302E-01	0.1111E-02	-0.1109E-02	0.8223E-04	-0.6490E-03
105	-0.1693E-02	-0.1104E-01	0.1365E-02	-0.1085E-02	0.8707E-04	-0.6731E-03
106	-0.1692E-02	-0.8989E-02	0.1633E-02	-0.1061E-02	0.9127E-04	-0.6901E-03
107	-0.1688E-02	-0.1102E-02	0.2770E-02	-0.9675E-03	0.1064E-03	-0.6537E-03
109	-0.1528E-02	0.1301E-02	0.2931E-02	-0.9514E-03	0.1027E-03	-0.6239E-03
111	-0.1248E-02	0.4456E-02	0.2931E-02	-0.9169E-03	0.5029E-04	-0.5703E-03
112	-0.1201E-02	0.5742E-02	0.2931E-02	-0.8982E-03	0.1035E-04	-0.5478E-03
60	-0.1560E-02	-0.1703E-01	0.2353E-03	-0.1189E-02	0.4830E-04	-0.5379E-03
61	-0.1424E-02	-0.1349E-01	0.2370E-03	-0.1172E-02	0.5278E-04	-0.5478E-03

62	-0.1412E-02	-0.1320E-01	0.2372E-03	-0.1170E-02	0.5358E-04	-0.5487E-03
63	-0.1155E-02	-0.6800E-02	0.5638E-03	-0.1111E-02	0.1060E-03	-0.5622E-03
64	-0.1165E-02	-0.5571E-03	0.1876E-02	-0.1011E-02	0.1119E-03	-0.5664E-03
65	-0.1169E-02	0.2266E-02	0.2392E-02	-0.9660E-03	0.8534E-04	-0.5590E-03
131	0.6421E-03	0.2266E-02	-0.7422E-03	-0.9648E-03	0.8534E-04	-0.5579E-03
132	0.2457E-02	0.2266E-02	-0.3860E-02	-0.9549E-03	0.8534E-04	-0.5579E-03
66	-0.1170E-02	0.5066E-02	0.2729E-02	-0.9377E-03	0.5107E-04	-0.5575E-03
67	-0.1171E-02	0.7429E-02	0.2887E-02	-0.9136E-03	0.2415E-04	-0.5522E-03
68	-0.1172E-02	0.9079E-02	0.2931E-02	-0.8966E-03	0.6366E-05	-0.5461E-03
69	-0.1173E-02	0.1071E-01	0.2921E-02	-0.8789E-03	-0.1187E-04	-0.5378E-03
70	-0.1173E-02	0.1191E-01	0.2878E-02	-0.8656E-03	-0.2488E-04	-0.5303E-03
71	-0.1174E-02	0.1452E-01	0.2683E-02	-0.8361E-03	-0.5176E-04	-0.5097E-03
133	0.4784E-03	0.1452E-01	-0.3583E-04	-0.8362E-03	-0.5176E-04	-0.5089E-03
134	0.2134E-02	0.1452E-01	-0.2756E-02	-0.8361E-03	-0.5176E-04	-0.5090E-03
72	-0.1173E-02	0.1703E-01	0.2360E-02	-0.8068E-03	-0.7540E-04	-0.4942E-03
73	-0.1168E-02	0.2713E-01	-0.1400E-03	-0.6762E-03	-0.1361E-03	-0.4090E-03
74	-0.1168E-02	0.2814E-01	-0.4859E-03	-0.6615E-03	-0.1379E-03	-0.3979E-03
75	-0.1167E-02	0.3008E-01	-0.1180E-02	-0.6321E-03	-0.1356E-03	-0.3753E-03
76	-0.1166E-02	0.3190E-01	-0.1843E-02	-0.6027E-03	-0.1257E-03	-0.3532E-03
77	-0.1165E-02	0.3277E-01	-0.2151E-02	-0.5841E-03	-0.1179E-03	-0.3426E-03
78	-0.1165E-02	0.3404E-01	-0.2574E-02	-0.5917E-03	-0.9440E-04	-0.2933E-03
9021	-0.1164E-02	0.3820E-01	-0.3355E-02	-0.6140E-03	0.2475E-04	-0.1859E-04
79	-0.1163E-02	0.3634E-01	-0.1959E-02	-0.6442E-03	0.5726E-04	0.1217E-03
80	-0.1163E-02	0.3492E-01	-0.1378E-02	-0.6542E-03	0.4645E-04	0.1347E-03
81	-0.1162E-02	0.3456E-01	-0.1259E-02	-0.6567E-03	0.4178E-04	0.1344E-03
82	-0.1266E-02	0.3159E-01	-0.1130E-02	-0.6593E-03	0.1931E-04	0.1266E-03
9022	-0.1188E-02	0.1533E-01	-0.1128E-02	-0.5823E-03	-0.2005E-04	0.8652E-04
83	-0.4890E-03	0.3013E-02	-0.1126E-02	-0.3507E-03	-0.2898E-04	0.4645E-04
84	-0.4217E-03	0.2226E-02	-0.1125E-02	-0.3217E-03	-0.2827E-04	0.4280E-04
85	-0.3747E-03	0.1705E-02	-0.1125E-02	-0.3001E-03	-0.2760E-04	0.4019E-04
86	-0.8433E-04	0.8560E-04	-0.3583E-03	-0.1415E-03	-0.1783E-04	0.2614E-04
87	-0.3146E-10	0.1630E-09	-0.7475E-10	-0.1046E-09	0.2580E-11	0.2727E-10

COUPLED MODE SHAPES (FOR SECONDARY MODE) MODE 11
FREQUENCY (HZ.) = 5.68905

MODAL DISP AT PRIMARY SYSTEM CONNETING DOF

DOF #	DISPLACEMENT
3041	-0.5341E-07
3042	0.0000E+00
3043	0.4721E-06
3061	-0.2064E-06
3063	0.1567E-05
3072	0.0000E+00
3081	-0.4246E-06
3103	0.5712E-05
3121	-0.1092E-05
3122	0.0000E+00
3123	0.7453E-05
3091	-0.5290E-06
3092	0.0000E+00
3093	0.3539E-05

MODAL DISPLACEMENTS AT SECONDARY SYSTEM DOF

NODE	DX	DY	DZ	ROT-X	ROT-Y	ROT-Z
1	0.1402E-08	0.1585E-08	0.4074E-09	0.3274E-09	0.2144E-09	0.4672E-09
2	-0.5406E-03	0.1847E-02	-0.5486E-03	0.2710E-03	0.2595E-03	0.4542E-03
3	-0.3631E-02	0.1672E-01	-0.1048E-01	0.7572E-03	0.1160E-02	0.1127E-02
4	-0.3547E-02	0.4846E-01	-0.6659E-01	0.1584E-02	0.3139E-02	0.9637E-03
5	-0.3564E-02	0.5721E-01	-0.1162E+00	0.1999E-02	0.4310E-02	0.2581E-03
9001	-0.3609E-02	0.5748E-01	-0.1236E+00	0.2039E-02	0.4631E-02	0.6464E-05
9002	-0.3623E-02	0.5733E-01	-0.1273E+00	0.2063E-02	0.4809E-02	-0.2514E-03
6	-0.3695E-02	0.5716E-01	-0.1259E+00	0.2115E-02	0.5155E-02	-0.5043E-03
7	-0.1371E-02	0.5717E-01	-0.1211E+00	0.2160E-02	0.5434E-02	-0.6533E-03
9003	0.4859E-01	0.5723E-01	-0.3666E-01	0.2199E-02	0.9990E-02	-0.1567E-02
9004	0.8030E-01	0.5729E-01	0.2408E-01	0.8534E-03	0.1455E-01	0.3113E-03
9	-0.5379E-02	0.5734E-01	0.9204E-02	-0.1898E-02	0.1910E-01	0.4769E-02
10	-0.3883E-01	0.5735E-01	-0.4803E-02	-0.2513E-02	0.1989E-01	0.5664E-02
9005	-0.2562E+00	0.5739E-01	-0.1094E+00	-0.3401E-02	0.2376E-01	0.7514E-02
9006	-0.4684E+00	0.5743E-01	-0.1733E+00	0.5347E-04	0.2763E-01	0.5420E-02
11	-0.5624E+00	0.5746E-01	-0.6484E-01	0.7565E-02	0.3150E-01	0.1123E-03
12	-0.5509E+00	0.5747E-01	0.3456E-01	0.1104E-01	0.3283E-01	-0.2302E-02
9007	-0.5458E+00	0.5604E-01	0.3978E-01	0.1324E-01	0.3300E-01	-0.3157E-02
9008	-0.5410E+00	0.5107E-01	0.1186E-01	0.1328E-01	0.3310E-01	-0.4027E-02
13	-0.5388E+00	0.4269E-01	-0.4357E-01	0.1421E-01	0.3330E-01	-0.4910E-02
14	-0.5388E+00	0.2824E-01	-0.1356E+00	0.1549E-01	0.3351E-01	-0.5594E-02
15	-0.5388E+00	-0.9845E-02	-0.1379E+00	0.1829E-01	0.3386E-01	-0.7118E-02
16	-0.5388E+00	-0.1302E+00	-0.8136E+00	0.2460E-01	0.3420E-01	-0.9727E-02
17	-0.5012E+00	-0.1853E+00	-0.9043E+00	0.2631E-01	0.3420E-01	-0.1043E-01
18	-0.3337E+00	-0.3726E+00	-0.1072E+01	0.2882E-01	0.3412E-01	-0.1061E-01
19	-0.9785E-01	-0.6565E+00	-0.1308E+01	0.3180E-01	0.3387E-01	-0.1030E-01
20	0.5146E+00	-0.1452E+01	-0.1920E+01	0.3665E-01	0.3282E-01	-0.6650E-02
21	0.6205E+00	-0.1565E+01	-0.1868E+01	0.3703E-01	0.3223E-01	-0.4407E-02
9009	0.6375E+00	-0.1565E+01	-0.4001E+00	0.3497E-01	0.2999E-01	0.3281E-02
9010	0.3966E+00	-0.1565E+01	0.8285E+00	0.2479E-01	0.2776E-01	0.7998E-02
22	0.6430E-01	-0.1565E+01	0.1492E+01	0.7394E-02	0.2552E-01	0.7550E-02
23	0.3526E-02	-0.1565E+01	0.1537E+01	0.3091E-02	0.2505E-01	0.6680E-02
24	-0.9005E-01	-0.1565E+01	0.1521E+01	-0.4980E-02	0.2414E-01	0.4767E-02
9011	-0.1874E+00	-0.1565E+01	0.1118E+01	-0.1826E-01	0.2228E-01	0.1138E-02
9012	-0.1731E+00	-0.1564E+01	0.3731E+00	-0.2499E-01	0.2042E-01	-0.1843E-02
25	-0.7633E-01	-0.1564E+01	-0.4589E+00	-0.2334E-01	0.1856E-01	-0.3733E-02
26	-0.3923E-01	-0.1564E+01	-0.6717E+00	-0.2128E-01	0.1803E-01	-0.4028E-02
9013	0.1094E+00	-0.1563E+01	-0.1223E+01	-0.3460E-02	0.1605E-01	-0.4076E-02
9014	0.2320E+00	-0.1562E+01	-0.1200E+01	0.1046E-01	0.1408E-01	-0.2611E-02
27	0.2826E+00	-0.1562E+01	-0.4522E+00	0.3193E-01	0.1210E-01	-0.1312E-03

28	0.2773E+00	-0.1561E+01	0.2493E-01	0.4010E-01	0.1137E-01	0.9300E-03
29	0.2433E+00	-0.1561E+01	0.9141E+00	0.4665E-01	0.1025E-01	0.2431E-02
9015	0.1129E+00	-0.1559E+01	0.2452E+01	0.2919E-01	0.8169E-02	0.4309E-02
9016	-0.5862E-01	-0.1558E+01	0.2683E+01	-0.2188E-01	0.6088E-02	0.4568E-02
30	-0.2072E+00	-0.1557E+01	0.5145E+00	-0.9777E-01	0.4007E-02	0.3115E-02
31	-0.2103E+00	-0.1557E+01	0.4156E+00	-0.1001E+00	0.3951E-02	0.3054E-02
32	-0.2136E+00	-0.1438E+01	0.1345E+00	-0.1126E+00	0.3808E-02	0.2755E-02
35	-0.2069E+00	-0.1121E+01	0.6194E-02	-0.1247E+00	0.3631E-02	0.2513E-02
37	-0.1776E+00	0.5357E-02	0.6287E-02	-0.1414E+00	0.3322E-02	0.1802E-02
9017	-0.8663E-01	0.5139E+01	0.6642E-02	-0.1635E+00	0.2309E-02	-0.9169E-03
9018	-0.2769E-01	0.9915E+01	0.6997E-02	-0.1213E+00	0.1334E-02	-0.3636E-02
38	-0.1351E-02	0.1250E+02	0.7352E-02	-0.3171E-01	0.2716E-03	-0.6356E-02
39	-0.4159E-03	0.1264E+02	0.7466E-02	0.3764E-02	-0.9438E-04	-0.7227E-02
9019	-0.1667E-01	0.1065E+02	0.7838E-02	0.1079E+00	-0.8165E-03	-0.1009E-01
40	-0.2709E-01	0.5791E+01	0.8210E-02	0.1673E+00	0.2399E-03	-0.1295E-01
41	0.4088E-02	0.7335E+00	0.8531E-02	0.1663E+00	0.2048E-02	-0.1542E-01
43	0.1293E-01	0.7331E-01	-0.1289E-02	0.1562E+00	0.3118E-02	-0.1403E-01
44	0.1293E-01	0.5295E-01	-0.5843E-02	0.1540E+00	0.3324E-02	-0.1371E-01
45	0.1293E-01	0.2563E-02	-0.1954E-01	0.1481E+00	0.4006E-02	-0.1269E-01
9020	0.1290E-01	-0.2398E+00	-0.1838E+00	0.1039E+00	0.6225E-02	-0.3977E-02
46	0.1287E-01	-0.2080E+00	-0.3092E+00	0.5965E-01	0.1336E-02	0.6396E-02
47	0.1287E-01	-0.1881E+00	-0.3119E+00	0.5500E+00	0.4190E-03	0.7572E-02
91	-0.1013E-01	-0.1881E+00	-0.1482E+00	0.5352E-01	0.3408E-03	0.7865E-02
92	-0.1086E+00	-0.2879E+00	0.3969E+00	0.4384E-01	-0.2213E-03	0.9434E-02
93	-0.1472E+00	-0.3330E+00	0.5501E+00	0.3611E-01	-0.5521E-03	0.1021E-01
94	-0.1491E+00	-0.4466E+00	0.5501E+00	0.3419E-01	-0.5475E-03	0.1050E-01
95	-0.1516E+00	-0.6106E+00	0.5501E+00	0.3176E-01	-0.3884E-03	0.1095E-01
96	-0.1530E+00	-0.7645E+00	0.5500E+00	0.3002E-01	-0.5321E-04	0.1141E-01
97	-0.1530E+00	-0.7719E+00	0.5500E+00	0.2995E-01	-0.3208E-04	0.1143E-01
98	-0.1072E+00	-0.6805E+00	0.4435E+00	0.2755E-01	0.9733E-03	0.1226E-01
100	-0.5106E-01	-0.6804E+00	0.3217E+00	0.2638E-01	0.1620E-02	0.1276E-01
101	-0.1226E-01	-0.6803E+00	0.2438E+00	0.2541E-01	0.2051E-02	0.1316E-01
102	0.3819E-01	-0.6803E+00	0.1474E+00	0.2576E-01	0.2490E-02	0.1394E-01
113	0.9447E-03	-0.1010E+01	0.2438E+00	0.1606E-01	0.2426E-02	0.1168E-01
114	0.1188E-01	-0.1062E+01	0.2438E+00	0.8944E-02	0.2693E-02	0.1031E-01
115	0.2378E-01	-0.1087E+01	0.2439E+00	0.3418E-02	0.2881E-02	0.8936E-02
116	0.4235E-01	-0.1090E+01	0.2439E+00	-0.1557E-02	0.3017E-02	0.6917E-02
118	0.3553E-01	-0.1084E+01	0.2370E+00	-0.3761E-02	0.3146E-02	0.5614E-02
9023	-0.4302E-01	-0.1083E+01	-0.5739E-01	-0.1907E-01	0.3108E-02	0.4601E-03
120	-0.2317E-01	-0.1082E+01	-0.9760E+00	-0.4752E-01	0.3070E-02	-0.1245E-02
122	-0.1352E-01	-0.9647E+00	-0.1089E+01	-0.5457E-01	0.3039E-02	-0.1199E-02
124	-0.7706E-03	-0.7250E+00	-0.1089E+01	-0.5790E-01	0.2954E-02	-0.1112E-02
125	0.2761E-01	-0.1264E+00	-0.1089E+01	-0.5752E-01	0.2649E-02	-0.9710E-03
127	0.3130E-01	-0.2471E-02	-0.9659E+00	-0.5254E-01	0.2493E-02	-0.9205E-03
129	0.1172E-01	-0.1457E-02	-0.1823E-01	-0.1734E-01	0.1470E-02	-0.5958E-03
9024	0.3109E-02	-0.7285E-03	0.7133E-01	0.3423E-02	0.7144E-03	-0.3259E-03
130	0.2308E-10	-0.1593E-07	0.9682E-08	0.1149E-08	0.4171E-10	-0.2620E-10
48	0.1248E-01	-0.1648E+00	-0.3119E+00	0.5416E-01	-0.3955E-03	0.6265E-02
49	0.1291E-01	-0.1200E+00	-0.3066E+00	0.5277E-01	-0.6642E-02	0.9965E-02
50	0.1293E-01	-0.6508E-01	-0.2955E+00	0.5138E-01	-0.2735E-02	0.1234E-01
51	0.1294E-01	-0.4611E-01	-0.2911E+00	0.5096E-01	-0.3029E-02	0.1318E-01
53	0.1297E-01	0.3528E-01	-0.2716E+00	0.4943E-01	-0.3975E-02	0.1679E-01
53	0.1309E-01	0.6249E+00	-0.1474E+00	0.4267E-01	-0.5464E-02	0.3035E-01
54	0.1326E-01	0.1856E+01	-0.3016E-01	0.3271E-01	0.6444E-03	0.3548E-01
55	0.1327E-01	0.1883E+01	-0.3052E-01	0.3250E-01	0.8706E-03	0.3540E-01
56	0.2287E-01	0.1896E+01	-0.3820E-01	0.3078E-01	0.3233E-02	0.3440E-01
57	0.3062E-01	0.1828E+01	-0.3824E-01	0.3039E-01	0.3595E-02	0.3398E-01
58	0.3840E-01	0.1767E+01	-0.3829E-01	0.3008E-01	0.3819E-02	0.3361E-01
59	0.5050E-01	0.1678E+01	-0.3835E-01	0.2965E-01	0.3844E-02	0.3305E-01
103	0.5058E-01	0.1557E+01	-0.2707E-01	0.2951E-01	0.1324E-02	0.3080E-01
104	0.5092E-01	0.1291E+01	-0.4709E-01	0.2892E-01	-0.4370E-02	0.2846E-01
105	0.5102E-01	0.1204E+01	-0.5088E-01	0.2873E-01	-0.4652E-02	0.2982E-01
106	0.5113E-01	0.1112E+01	-0.7442E-01	0.2854E-01	-0.4210E-02	0.3145E-01
107	0.5154E-01	0.7330E+00	-0.8655E-01	0.2780E-01	0.3802E-02	0.3303E-01
109	0.5970E-01	0.6421E+00	-0.7941E-01	0.2764E-01	0.5833E-02	0.3225E-01
111	0.7775E-01	0.5502E+00	-0.7943E-01	0.2666E-01	0.3139E-02	0.3081E-01
112	0.8064E-01	0.5129E+00	-0.7943E-01	0.2602E-01	0.1854E-03	0.3020E-01
60	0.6212E-01	0.1589E+01	-0.3841E-01	0.2927E-01	0.3561E-02	0.3254E-01
61	0.7241E-01	0.1502E+01	-0.3848E-01	0.2892E-01	0.2957E-02	0.3203E-01
62	0.7318E-01	0.1495E+01	-0.3848E-01	0.2889E-01	0.2893E-02	0.3199E-01
63	0.7994E-01	0.1271E+01	-0.3575E-01	0.2791E-01	-0.4820E-03	0.3080E-01
64	0.8026E-01	0.9372E+00	-0.5452E-01	0.2675E-01	-0.2195E-02	0.3010E-01
65	0.8040E-01	0.7869E+00	-0.6566E-01	0.2621E-01	-0.1934E-02	0.3005E-01
131	-0.1715E-01	0.7869E+00	0.1940E-01	0.2619E-01	-0.1934E-02	0.3003E-01
132	-0.1148E+00	0.7870E+00	0.1046E+00	0.2619E-01	-0.1934E-02	0.3003E-01
66	0.8046E-01	0.6358E+00	-0.7187E-01	0.2611E-01	-0.1293E-02	0.3025E-01
67	0.8052E-01	0.5070E+00	-0.7813E-01	0.2602E-01	-0.6616E-03	0.3025E-01
68	0.8056E-01	0.4163E+00	-0.7943E-01	0.2595E-01	-0.1686E-03	0.3016E-01
69	0.8061E-01	0.3259E+00	-0.7942E-01	0.2586E-01	0.2260E-03	0.2997E-01
70	0.8065E-01	0.2586E+00	-0.7860E-01	0.2578E-01	0.5515E-03	0.2977E-01
71	0.8074E-01	0.1109E+00	-0.7395E-01	0.2563E-01	0.1366E-02	0.2915E-01
133	-0.1393E-01	0.1109E+00	0.9297E-02	0.2562E-01	0.1366E-02	0.2914E-01
134	-0.1087E+00	0.1109E+00	0.9263E-01	0.2562E-01	0.1366E-02	0.2914E-01
72	0.8077E-01	-0.3369E-01	-0.6492E-01	0.2565E-01	0.2180E-02	0.2846E-01
73	0.8089E-01	-0.6056E+00	0.1165E-01	0.2575E-01	0.4237E-02	0.2186E-01
74	0.8090E-01	-0.6592E+00	0.2249E-01	0.2576E-01	0.4266E-02	0.2076E-01
75	0.8093E-01	-0.7573E+00	0.4369E-01	0.2579E-01	0.3976E-02	0.1834E-01
76	0.8095E-01	-0.8427E+00	0.6227E-01	0.2581E-01	0.3223E-02	0.1569E-01
77	0.8097E-01	-0.8803E+00	0.6985E-01	0.2582E-01	0.2674E-02	0.1430E-01
78	0.8096E-01	-0.9350E+00	0.7933E-01	0.2579E-01	0.2084E-02	0.1307E-01
9021	0.8093E-01	-0.1197E+01	0.9177E-01	0.2560E-01	-0.8033E-03	0.5543E-02
79	0.8090E-01	-0.1277E+01	0.5556E-01	0.2540E-01	-0.1290E-02	0.6999E-03
80	0.6088E-01	-0.1280E+01	0.4361E-01	0.2532E-01	-0.8218E-03	-0.1196E-03
81	0.8088E-01	-0.1279E+01	0.4159E-01	0.2530E-01	-0.6495E-03	-0.2171E-03
82	0.8143E-01	-0.1183E+01	0.4018E-01	0.2518E-01	0.1431E-03	-0.3239E-03
9022	0.5851E-01	-0.5689E+00	0.4012E-01	0.2184E-01	0.1432E-02	-0.4300E-03
83	0.1868E-01	-0.1085E+00	0.4005E-01	0.1306E-01	0.1499E-02	-0.5360E-03
84	0.1463E-01	-0.7919E-01	0.4004E-01	0.1197E-01	0.1442E-02	-0.5456E-03
85	0.1225E-01	-0.5983E-01	0.4004E-01	0.1117E-01	0.1396E-02	-0.5525E-03
86	0.2050E-02	-0.2094E-02	0.1269E-01	0.5242E-02	0.8456E-03	-0.5868E-03
87	0.1289E-08	-0.5931E-08	0.2200E-08	0.3842E-08	0.5695E-10	-0.6938E-09

COUPLED MODE SHAPES (FOR SECONDARY MODE) MODE 12
FREQUENCY (HZ.) = 7.46775

MODAL DISP AT PRIMARY SYSTEM CONNECTING DOF

DOF #	DISPLACEMENT
3041	0.1129E-04
3042	0.0000E+00
3043	0.7239E-06
3061	0.2650E-04
3063	0.2433E-05
3072	0.0000E+00
3081	0.4121E-04
3103	0.8757E-05
3121	0.7692E-04
3122	0.0000E+00
3123	0.1143E-04
3091	0.4704E-04
3092	0.0000E+00
3093	0.5426E-05

MODAL DISPLACEMENTS AT SECONDARY SYSTEM DOF

NODE	DX	DY	DZ	ROT-X	ROT-Y	ROT-Z
1	-0.3015E-08	-0.7616E-09	-0.6109E-08	-0.8324E-10	0.4338E-08	0.6541E-10
2	-0.1022E-01	-0.1638E-04	-0.1024E-01	-0.8816E-04	0.4155E-02	0.1067E-05
3	-0.5193E-01	0.3288E-02	-0.1320E+00	-0.1694E-03	0.1213E-01	0.4880E-03
4	-0.5203E-01	0.3064E-01	-0.5798E+00	-0.1819E-03	[illegible]	0.1731E-02
5	-0.5207E-01	0.5995E-01	-0.8679E+00	-0.[illegible]	0.2237E-01	0.2670E-02
9001	-0.5351E-01	0.6522E-01	-0.9103E+00	-0.2075E-03	0.2268E-01	0.2954E-02
9002	-0.5779E-01	0.6945E-01	-0.9419E+00	-0.2234E-03	0.2291E-01	0.3231E-02
6	-0.6411E-01	0.7112E-01	-0.9539E+00	-0.1740E-03	0.2309E-01	0.3487E-02
7	-0.7218E-01	0.7112E-01	-0.9543E+00	-0.1085E-03	0.2329E-01	0.3628E-02
9003	-0.2121E+00	0.7108E-01	-0.9000E+00	0.4002E-02	0.2661E-01	0.3036E-02
9004	-0.2371E+00	0.7103E-01	-0.6249E+00	0.1101E-01	0.2992E-01	-0.2409E-02
9	0.8317E-02	0.7097E-01	-0.1069E+00	0.1660E-01	0.3323E-01	-0.1144E-01
10	0.4686E-01	0.7095E-01	0.1055E-02	0.1724E-01	0.3381E-01	-0.1310E-01
9005	0.5774E+00	0.7089E-01	0.5639E+00	0.1809E-01	0.3662E-01	-0.1708E-01
9006	0.1095E+01	0.7981E-01	0.1101E+01	0.1596E-01	0.3943E-01	-0.1517E-01
11	0.1495E+01	0.7073E-01	0.1560E+01	0.1372E-01	0.4225E-01	-0.1026E-01
12	0.1596E+01	0.7070E-01	0.1706E+01	0.1359E-01	0.4321E-01	-0.8530E-02
9007	0.1611E+01	0.6659E-01	0.1710E+01	0.1365E-01	0.4339E-01	-0.8006E-02
9008	0.1622E+01	0.5598E-01	0.1689E+01	0.1373E-01	0.4356E-01	-0.7493E-02
13	0.1626E+01	0.4241E-01	0.1594E+01	0.1383E-01	0.4372E-01	-0.6973E-02
14	0.1626E+01	0.2373E-01	0.1473E+01	0.1399E-01	0.4380E-01	-0.6556E-02
15	0.1626E+01	-0.1274E-01	0.1210E+01	0.1433E-01	0.4376E-01	-0.5555E-02
16	0.1626E+01	-0.6581E-01	0.6083E+00	0.1512E-01	0.4198E-01	-0.1315E-02
17	0.1671E+01	-0.8318E-01	0.4985E+00	0.1504E-01	0.4072E-01	0.9851E-03
18	0.1866E+01	-0.1438E+00	0.3029E+00	0.1542E-01	0.3904E-01	0.5141E-02
19	0.2129E+01	-0.1915E+00	0.4012E-01	0.1492E-01	0.3672E-01	0.1205E-01
20	0.2755E+01	0.1451E-01	-0.5864E+00	0.7802E-02	0.3202E-01	0.3611E-01
21	0.3677E+01	0.1055E+00	-0.6552E+00	0.1855E-02	0.3065E-01	0.4669E-01
9009	0.3683E+00	0.1049E+00	-0.8549E+00	-0.9107E-02	0.2551E-01	0.5969E-01
9010	-0.1414E+01	0.1044E+00	-0.1181E+01	-0.4532E-02	0.2036E-01	0.1996E-01
22	-0.5883E+00	0.1038E+00	-0.1122E+01	0.8103E-02	0.1522E-01	-0.6868E-01
23	0.9637E-01	0.1036E+00	-0.1040E+01	0.1115E-01	0.1413E-01	-0.9303E-01
24	0.1961E+01	0.1034E+00	-0.8132E+00	0.1637E-01	0.1203E-01	-0.1303E+00
9011	0.6701E+01	0.1029E+00	-0.1503E+00	0.2204E-01	0.7751E-02	-0.1383E+00
9012	0.1038E+02	0.1023E+00	0.5726E+00	0.1986E-01	0.3469E-02	-0.7138E-01
25	0.1104E+02	0.1016E+00	0.1100E+01	0.1074E-01	-0.8128E-03	0.3444E-01
26	0.1056E+02	0.1016E+00	0.1186E+01	0.7213E-02	-0.2032E-02	0.6645E-01
9013	0.6409E+01	0.1010E+00	0.1205E+01	-0.6007E-02	-0.6575E-02	0.1597E+00
9014	-0.1455E-02	0.1004E+00	0.8031E+00	-0.1550E-01	-0.1112E-01	0.1884E+00
27	-0.6001E+01	0.9979E-01	0.2083E+00	-0.1621E-01	-0.1566E-01	0.1364E+00
28	-0.7564E+01	0.9956E-01	0.8201E-02	-0.1365E-01	-0.1736E-01	0.9774E-01
29	-0.8850E+01	0.9920E-01	-0.2143E+00	-0.8616E-02	-0.1953E-01	0.2953E-01
9015	-0.7553E+01	0.9852E-01	-0.3704E+00	0.2251E-04	-0.2472E-01	-0.9620E-01
9016	-0.2136E+01	0.9783E-01	-0.2422E+00	0.6238E-02	-0.2951E-01	-0.1836E+00
30	0.5333E+01	0.9712E-01	0.4358E-01	0.8220E-02	-0.3430E-01	-0.2039E+00
31	0.5637E+01	0.9710E-01	0.5181E-01	0.8206E-02	-0.3442E-01	-0.2035E+00
32	0.6036E+01	0.8809E-01	0.7351E-01	0.8042E-02	-0.3517E-01	-0.2007E+00
35	0.8160E+01	0.6706E-01	0.8230E-01	0.7586E-02	-0.3645E-01	-0.1981E+00
37	0.5842E+01	0.8876E-02	0.8232E-01	0.5729E-02	-0.3969E-01	-0.1912E+00
9017	0.4288E+01	-0.3179E-01	0.8239E-01	-0.2438E-02	-0.5609E-01	-0.1650E+00
9018	0.2312E+01	0.1130E+00	0.8246E-01	-0.6080E-02	-0.6288E-01	-0.1387E+00
38	0.4518E+00	0.3160E+00	0.8252E-01	-0.5366E-02	-0.4736E-01	-0.1124E+00
39	0.1234E-01	0.3666E+00	0.8253E-01	-0.4306E-02	-0.3666E-01	-0.1040E+00
9019	-0.6392E+00	0.4380E+00	0.8258E-01	0.3118E-03	-0.4132E-02	-0.7637E-01
40	-0.4473E+00	0.3435E+00	0.6261E-01	0.5097E-02	0.1237E-01	-0.4873E-01
41	-0.5318E-01	0.1458E+00	0.8263E-01	0.8039E-02	0.1186E-01	-0.2485E-01
43	-0.1266E-01	0.3508E-01	0.4561E-01	0.8035E-02	0.8609E-02	-0.1912E-01
44	-0.1264E-01	0.8191E-02	0.3355E-01	0.8142E-02	0.8146E-02	-0.1821E-01
45	-0.1259E-01	-0.5657E-01	0.4810E-02	0.8455E-02	0.6927E-02	-0.1584E-01
9020	-0.1221E-01	-0.2887E+00	-0.8666E-01	0.1079E-01	0.3870E-03	-0.1505E-02
46	-0.1182E-01	-0.2017E+00	-0.6530E-01	0.1313E-01	-0.9436E-03	0.6400E-02
47	-0.1178E-01	-0.1817E+00	-0.6263E-01	0.1337E-01	-0.7736E-03	0.6834E-02
91	-0.3212E-01	-0.1817E+00	-0.2243E-01	0.1342E-01	-0.5673E-03	0.6679E-02
92	-0.1025E+00	-0.1818E+00	0.1291E+00	0.1337E-01	0.9177E-03	0.6030E-02
93	-0.1192E+00	-0.2308E+00	0.1787E+00	0.1274E-01	0.1769E-02	0.5879E-02
94	-0.1130E+00	-0.2717E+00	0.1788E+00	0.1246E-01	0.1963E-02	0.5894E-02
95	-0.1024E+00	-0.3329E+00	0.1788E+00	0.1191E-01	0.2175E-02	0.5918E-02
96	-0.9129E-01	-0.3909E+00	0.1788E+00	0.1125E-01	0.2189E-02	0.5942E-02
97	-0.9074E-01	-0.3937E+00	0.1788E+00	0.1122E-01	0.2185E-02	0.5943E-02
98	-0.6061E-01	-0.4337E+00	0.1804E+00	0.9699E-02	0.1862E-02	0.5837E-02
100	-0.3457E-01	-0.4337E+00	0.9815E-01	0.9132E-02	0.1594E-02	0.5650E-02
101	-0.1782E-01	-0.4337E+00	0.7131E-01	0.8798E-02	0.1416E-02	0.5441E-02

102	0.2209E-02	-0.4337E+00	0.3795E-01	0.9015E-02	0.1157E-02	0.5165E-02
113	-0.8976E-02	-0.4789E+00	0.7133E-01	0.5605E-02	0.1555E-02	0.4838E-02
114	-0.2143E-02	-0.4970E+00	0.7134E-01	0.3054E-02	0.1652E-02	0.4276E-02
115	0.5038E-02	-0.5051E+00	0.7135E-01	0.1003E-02	0.1718E-02	0.3714E-02
116	0.1595E-01	-0.5043E+00	0.7137E-01	-0.9204E-03	0.1757E-02	0.2887E-02
118	0.1419E-01	-0.5013E+00	0.6785E-01	-0.1868E-02	0.1796E-02	0.2355E-02
9023	-0.1836E-01	-0.5009E+00	-0.6945E-01	-0.8737E-02	0.1688E-02	0.2209E-02
120	-0.1152E-01	-0.5005E+00	-0.4881E+00	-0.2166E-01	0.1579E-02	-0.5208E-03
122	-0.6830E-02	-0.4470E+00	-0.5395E+00	-0.2493E-01	0.1554E-02	-0.5075E-03
124	-0.3198E-03	-0.3373E+00	-0.5395E+00	-0.2658E-01	0.1508E-02	-0.4869E-03
125	0.1417E-01	-0.6065E-01	-0.5395E+00	-0.2702E-01	0.1353E-02	-0.4376E-03
127	0.1617E-01	-0.1052E-02	-0.4810E+00	-0.2525E-01	0.1272E-02	-0.4250E-03
129	0.6595E-02	-0.6204E-03	-0.1017E-01	-0.8907E-02	0.7601E-03	-0.3128E-03
9024	0.1855E-02	-0.3102E-03	0.3617E-01	0.1721E-02	0.3750E-03	-0.1887E-03
130	0.2665E-10	-0.6783E-08	0.4942E-08	0.5843E-09	0.2130E-10	-0.1640E-10
48	-0.1176E-01	-0.1600E+00	-0.6014E-01	0.1345E-01	-0.8719E-03	0.7504E-02
49	-0.1172E-01	-0.1200E+00	-0.5537E-01	0.1357E-01	-0.1020E-02	0.8325E-02
50	-0.1167E-01	-0.7678E-01	-0.4994E-01	0.1370E-01	-0.1134E-02	0.8764E-02
51	-0.1166E-01	-0.6349E-01	-0.4621E-01	0.1374E-01	-0.1162E-02	0.8819E-02
52	-0.1162E-01	-0.1472E-01	-0.4158E-01	0.1387E-01	-0.1233E-02	0.8719E-02
53	-0.1141E-01	0.1816E+00	-0.1265E-01	0.1448E-01	-0.9603E-03	0.7600E-02
54	-0.1111E-01	0.4453E+00	-0.1124E-01	0.1537E-01	0.1247E-02	0.7512E-02
55	-0.1110E-01	0.4510E+00	-0.1224E-01	0.1539E-01	0.1313E-02	0.7532E-02
56	-0.4559E-02	0.4216E+00	-0.1831E-01	0.1548E-01	0.1791E-02	0.7858E-02
57	-0.4927E-03	0.3867E+00	-0.1833E-01	0.1548E-01	0.1748E-02	0.7982E-02
58	0.3027E-02	0.3558E+00	-0.1835E-01	0.1547E-01	0.1683E-02	0.8092E-02
59	0.7961E-02	0.3094E+00	-0.1838E-01	0.1541E-01	0.1509E-02	0.8258E-02
103	0.7988E-02	0.2787E+00	-0.1394E-01	0.1523E-01	0.5274E-03	0.8244E-02
104	0.8094E-02	0.1989E+00	-0.2166E-01	0.1451E-01	-0.1699E-02	0.9191E-02
105	0.8129E-02	0.1705E+00	-0.2703E-01	0.1428E-01	-0.1816E-02	0.9769E-02
106	0.8163E-02	0.1403E+00	-0.3234E-01	0.1405E-01	-0.1667E-02	0.1029E-01
107	0.8293E-02	0.1979E-01	-0.3911E-01	0.1316E-01	0.1071E-02	0.1005E-01
109	0.1074E-01	-0.1464E-01	-0.3701E-01	0.1300E-01	0.1782E-02	0.9497E-02
111	0.1641E-01	-0.5775E-01	-0.3702E-01	0.1250E-01	0.1094E-02	0.8512E-02
112	0.1740E-01	-0.7525E-01	-0.3702E-01	0.1219E-01	0.1374E-03	0.8098E-02
60	0.1225E-01	0.2632E+00	-0.1841E-01	0.1530E-01	0.1268E-02	0.8425E-02
61	0.1570E-01	0.2175E+00	-0.1843E-01	0.1515E-01	0.9534E-03	0.8593E-02
62	0.1594E-01	0.2137E+00	-0.1843E-01	0.1514E-01	0.9238E-03	0.8607E-02
63	0.1761E-01	0.1248E+00	-0.1812E-01	0.1453E-01	-0.4168E-03	0.8866E-02
64	0.1768E-01	0.2662E-01	-0.2761E-01	0.1342E-01	-0.9656E-03	0.8845E-02
65	0.1771E-01	-0.1726E-01	-0.3232E-01	0.1292E-01	-0.7823E-03	0.8639E-02
131	-0.1028E-01	-0.1726E-01	0.9614E-02	0.1291E-01	-0.7823E-03	0.8625E-02
132	-0.3835E-01	-0.1726E-01	0.5163E-01	0.1292E-01	-0.7823E-03	0.8629E-02
66	0.1770E-01	-0.6026E-01	-0.3544E-01	0.1261E-01	-0.4586E-03	0.8484E-02
67	0.1769E-01	-0.9586E-01	-0.3679E-01	0.1235E-01	-0.1756E-03	0.8267E-02
68	0.1768E-01	-0.1205E+00	-0.3702E-01	0.1216E-01	0.2841E-04	0.8067E-02
69	0.1768E-01	-0.1444E+00	-0.3670E-01	0.1196E-01	0.1931E-03	0.7821E-02
70	0.1767E-01	-0.1618E+00	-0.3612E-01	0.1181E-01	0.3201E-03	0.7610E-02
71	0.1767E-01	-0.1987E+00	-0.3381E-01	0.1148E-01	0.6127E-03	0.7060E-02
133	-0.5243E-02	-0.1987E+00	0.3502E-02	0.1148E-01	0.6127E-03	0.7055E-02
134	-0.2820E-01	-0.1987E+00	0.4086E-01	0.1148E-01	0.6127E-03	0.7058E-02
72	0.1764E-01	-0.2327E+00	-0.2999E-01	0.1110E-01	0.8748E-03	0.6563E-02
73	0.1752E-01	-0.3598E+00	-0.4738E-02	0.9954E-02	0.1119E-02	0.5085E-02
74	0.1750E-01	-0.3723E+00	-0.2030E-02	0.9814E-02	0.1070E-02	0.5000E-02
75	0.1747E-01	-0.3970E+00	0.3114E-02	0.9533E-02	0.1016E-02	0.4903E-02
76	0.1745E-01	-0.4214E+00	0.8139E-02	0.9253E-02	0.1023E-02	0.4938E-02
77	0.1743E-01	-0.4338E+00	0.1070E-01	0.9113E-02	0.1049E-02	0.5020E-02
78	0.1741E-01	-0.4533E+00	0.1458E-01	0.9237E-02	0.3947E-03	0.4756E-02
9021	0.1741E-01	-0.5606E+00	0.2720E-01	0.1013E-01	0.7530E-04	0.2640E-02
79	0.1741E-01	-0.6063E+00	0.2385E-01	0.1101E-01	-0.2083E-03	0.7201E-03
80	0.1741E-01	-0.6115E+00	0.2172E-01	0.1135E-01	-0.1824E-03	0.3112E-03
81	0.1741E-01	-0.6123E+00	0.2131E-01	0.1144E-01	-0.1372E-03	0.2555E-03
82	0.1764E-01	-0.5696E+00	0.2095E-01	0.1162E-01	-0.6616E-05	0.1459E-03
9022	0.1416E-01	-0.2792E+00	0.2094E-01	0.1055E-01	0.2546E-03	-0.1999E-04
83	0.5785E-02	-0.5351E-01	0.2092E-01	0.6471E-02	0.3706E-03	-0.1858E-03
84	0.4915E-02	-0.3899E-01	0.2092E-01	0.5936E-02	0.3732E-03	-0.2009E-03
85	0.4290E-02	-0.2939E-01	0.2092E-01	0.5536E-02	0.3743E-03	-0.2117E-03
86	0.9334E-03	-0.9644E-03	0.6558E-02	0.2580E-02	0.2864E-03	-0.2639E-03
87	0.1704E-09	-0.3405E-08	0.6281E-09	0.1890E-08	-0.5463E-10	-0.3208E-09

COUPLED MODE SHAPES (FOR SECONDARY MODE) MODE 13
FREQUENCY (HZ.) = 8.07098

MODAL DISP AT PRIMARY SYSTEM CONNETING DOF

DOF #	DISPLACEMENT
3041	-0.2611E-05
3042	0.0000E+00
3043	0.6723E-05
3061	-0.6527E-05
3063	0.2259E-04
3072	0.0000E+00
3081	-0.1066E-04
3103	0.8133E-04
3121	-0.2137E-04
3122	0.0000E+00
3123	0.1061E-03
3091	-0.1239E-04
3092	0.0000E+00
3093	0.5039E-04

MODAL DISPLACEMENTS AT SECONDARY SYSTEM DOF

NODE	DX	DY	DZ	ROT-X	ROT-Y	ROT-Z
1	0.1754E-08	0.7635E-08	0.3164E-08	0.1438E-09	-0.4030E-08	0.3052E-08
2	0.9533E-02	0.7388E-02	0.9544E-02	-0.4777E-03	-0.3935E-02	0.3335E-02
3	0.4987E-01	0.9445E-01	0.1288E+00	-0.2526E-02	-0.1221E-01	0.6891E-02

4	0.4892E-01	0.3825E+00	0.6120E+00	-0.5982E-02	-0.2358E-01	0.1136E-01
5	0.4995E-01	0.5260E+00	0.9595E+00	-0.7720E-02	-0.2828E-01	0.9707E-02
9001	0.4530E-01	0.5436E+00	0.1010E+01	-0.7903E-02	-0.2942E-01	0.8984E-02
9002	0.3352E-01	0.5555E+00	0.1040E+01	-0.8052E-02	-0.3038E-01	0.8212E-02
6	0.1888E-01	0.5595E+00	0.1040E+01	-0.8335E-02	-0.3122E-01	0.7421E-02
7	0.2758E-02	0.5595E+00	0.1021E+01	-0.6575E-02	-0.3217E-01	0.6934E-02
9003	-0.1259E+00	0.5597E+00	0.6463E+00	-0.1139E-01	-0.4780E-01	0.5913E-03
9004	-0.8268E-01	0.5599E+00	0.2362E+00	-0.9778E-02	-0.6341E-01	-0.2269E-02
9	-0.9169E-02	0.5594E+00	0.1511E-01	-0.8374E-03	-0.7906E-01	-0.9594E-03
10	-0.4880E-02	0.5599E+00	0.1705E-01	0.1537E-02	-0.8177E-01	-0.4953E-03
9005	0.2229E-01	0.5598E+00	0.1892E+00	0.7164E-02	-0.9504E-01	-0.2482E-02
9006	0.2226E+00	0.5597E+00	0.3342E+00	-0.7186E-04	-0.1083E+00	-0.1159E-01
11	0.8243E+00	0.5595E+00	0.6486E-01	-0.1911E-01	-0.1216E+00	-0.2832E-01
12	0.1169E+01	0.5594E+00	-0.1878E+00	-0.2822E-01	-0.1262E+00	-0.3607E-01
9007	0.1239E+01	0.5403E+00	-0.1799E+00	-0.3136E-01	-0.1268E+00	-0.3891E-01
9008	0.1294E+01	0.4848E+00	-0.5023E-01	-0.3409E-01	-0.1273E+00	-0.4177E-01
13	0.1315E+01	0.4037E+00	0.1717E+00	-0.3652E-01	-0.1281E+00	-0.4462E-01
14	0.1315E+01	0.2777E+00	0.5256E+00	-0.3992E-01	-0.1288E+00	-0.4674E-01
15	0.1315E+01	-0.1616E-01	0.1303E+01	-0.4734E-01	-0.1301E+00	-0.5107E-01
16	0.1315E+01	-0.7842E+00	0.3134E+01	-0.6457E-01	-0.1322E+00	-0.5786E-01
17	0.1170E+01	-0.8656E+00	0.3486E+01	-0.6841E-01	-0.1327E+00	-0.5862E-01
18	0.5180E+00	-0.8037E+00	0.4137E+01	-0.7693E-01	-0.1329E+00	-0.6062E-01
19	-0.4017E+00	-0.6533E+00	0.5056E+01	-0.9055E-01	-0.1320E+00	-0.6235E-01
20	-0.2783E+01	0.2733E+00	0.7437E+01	-0.1351E+00	-0.1272E+00	-0.5795E-01
21	-0.2918E+01	0.5024E+00	0.7221E+01	-0.1534E+00	-0.1245E+00	-0.5064E-01
9009	-0.1302E+01	0.5015E+00	0.2668E+00	-0.1787E+00	-0.1151E+00	-0.3169E-01
9010	-0.3239E+00	0.5005E+00	-0.5941E+01	-0.1158E+00	-0.1057E+00	-0.1686E-01
22	0.1242E-01	0.4995E+00	-0.8170E+01	0.1117E-01	-0.9635E-01	0.8013E-03
23	-0.1236E-01	0.4992E+00	-0.7944E+01	0.4209E-01	-0.9436E-01	0.5084E-02
24	-0.1568E+00	0.4988E+00	-0.6792E+01	0.9677E-01	-0.9053E-01	0.1195E-01
9011	-0.6686E+00	0.4977E+00	-0.2211E+01	0.1666E+00	-0.8272E-01	0.1656E-01
9012	-0.1145E+01	0.4967E+00	0.3568E+01	0.1667E+00	-0.7490E-01	0.1040E-01
25	-0.1295E+01	0.4955E+00	0.8196E+01	0.1006E+00	-0.6708E-01	-0.2051E-02
26	-0.1256E+01	0.4952E+00	0.9020E+01	0.7228E-01	-0.6486E-01	-0.6064E-02
9013	-0.8091E+00	0.4939E+00	0.9617E+01	-0.3885E-01	-0.5657E-01	-0.1823E-01
9014	-0.5455E-01	0.4926E+00	0.6574E+01	-0.1235E+00	-0.4627E-01	-0.2262E-01
27	0.6736E+00	0.4912E+00	0.1729E+01	-0.1339E+00	-0.3998E-01	-0.1668E-01
28	0.8648E+00	0.4906E+00	0.7167E-01	-0.1133E+00	-0.3688E-01	-0.1196E-01
29	0.1022E+01	0.4897E+00	-0.1780E+01	-0.7201E-01	-0.3220E-01	-0.3583E-02
9015	0.8641E+00	0.4881E+00	-0.3124E+01	-0.2193E-02	-0.2345E-01	0.1161E-01
9016	0.2214E+00	0.4863E+00	-0.2231E+01	0.4411E-01	-0.1471E-01	0.2136E-01
30	-0.6187E+00	0.4845E+00	-0.3437E+00	0.4842E-01	-0.5969E-02	0.2193E-01
31	-0.6406E+00	0.4845E+00	-0.2954E+00	0.4785E-01	-0.5735E-02	0.2181E-01
32	-0.7033E+00	0.4341E+00	-0.1723E+00	0.4429E-01	-0.4918E-02	0.2104E-01
35	-0.7378E+00	0.3221E+00	-0.1249E+00	0.3966E-01	-0.3862E-02	0.2037E-01
37	-0.7629E+00	0.2563E-01	-0.1247E+00	0.2938E-01	-0.2016E-02	0.1879E-01
9017	-0.7076E+00	-0.2536E+00	-0.1237E+00	-0.8645E-02	0.5291E-02	0.1274E-01
9018	-0.4457E+00	0.3690E+00	-0.1227E+00	-0.2614E-01	0.1019E-01	0.6693E-02
38	-0.1004E+00	0.1225E+01	-0.1217E+00	-0.2337E-01	0.1009E-01	0.6448E-03
39	-0.1662E-02	0.1445E+01	-0.1214E+00	-0.1856E-01	0.8776E-02	-0.1293E-02
9019	0.2008E+00	0.1730E+01	-0.1203E+00	0.2829E-02	0.2963E-02	-0.7657E-02
40	0.1966E+00	0.1238E+01	-0.1192E+00	0.2552E-01	-0.3174E-02	-0.1402E-01
41	0.3051E-01	0.2511E+00	-0.1182E+00	0.4024E-01	-0.7959E-02	-0.1952E-01
43	-0.1480E-02	0.1763E-01	-0.8489E-01	0.4378E-01	-0.8923E-02	-0.2109E-01
44	-0.1481E-02	-0.1290E-01	-0.7182E-01	0.4443E-01	-0.8865E-02	-0.2124E-01
45	-0.1484E-02	-0.9476E-01	-0.3827E-01	0.4618E-01	-0.8298E-02	-0.2145E-01
9020	-0.1509E-02	-0.6242E+00	0.1158E+00	0.5922E-01	-0.2687E-02	-0.1235E-01
46	-0.1532E-02	-0.6356E+00	0.1479E+00	0.7225E-01	0.1865E-03	0.1453E-01
47	-0.1535E-02	-0.5866E+00	0.1470E+00	0.7363E-01	0.3612E-03	0.1832E-01
91	-0.5665E-01	-0.5867E+00	0.3682E+00	0.7405E-01	0.5759E-03	0.1848E-01
92	-0.2702E+00	-0.5871E+00	0.1220E+01	0.7773E-01	0.2120E-02	0.1944E-01
93	-0.3341E+00	-0.8890E+00	0.1518E+01	0.8144E-01	0.3060E-02	0.1994E-01
94	-0.3235E+00	-0.1155E+01	0.1517E+01	0.8202E-01	0.5439E-02	0.2021E-01
95	-0.3048E+00	-0.1567E+01	0.1517E+01	0.8199E-01	0.4061E-02	0.2062E-01
96	-0.2829E+00	-0.1975E+01	0.1517E+01	0.8102E-01	0.4696E-02	0.2103E-01
97	-0.2817E+00	-0.1996E+01	0.1517E+01	0.8096E-01	0.4727E-02	0.2105E-01
98	-0.1816E+00	-0.2295E+01	0.1222E+01	0.7680E-01	0.5821E-02	0.2174E-01
100	-0.8319E-01	-0.2295E+01	0.8816E+00	0.7433E-01	0.6629E-02	0.2200E-01
101	-0.1693E-01	-0.2295E+01	0.6611E+00	0.7238E-01	0.7102E-02	0.2216E-01
102	0.6708E-01	-0.2295E+01	0.3875E+00	0.7317E-01	0.7540E-02	0.2265E-01
113	0.2707E-01	-0.2682E+01	0.6612E+00	0.5234E-01	0.7649E-02	0.1989E-01
114	0.6042E-01	-0.2867E+01	0.6613E+00	0.3556E-01	0.7998E-02	0.1778E-01
115	0.9493E-01	-0.2986E+01	0.6613E+00	0.2124E-01	0.8203E-02	0.1567E-01
116	0.1466E+00	-0.3065E+01	0.6614E+00	0.5868E-02	0.8273E-02	0.1256E-01
118	0.1399E+00	-0.3069E+01	0.6597E+00	-0.4141E-02	0.8346E-02	0.1057E-01
9023	-0.3411E-01	-0.3067E+01	-0.1910E+00	-0.5911E-01	0.7414E-02	0.2420E-02
120	-0.4404E-01	-0.3065E+01	-0.2927E+01	-0.1364E+00	0.6481E-02	-0.8692E-03
122	-0.2761E-01	-0.2731E+01	-0.3248E+01	-0.1544E+00	0.6326E-02	-0.9553E-03
124	-0.1201E-02	-0.2055E+01	-0.3248E+01	-0.1632E+00	0.6101E-02	-0.1028E-02
125	0.5721E-01	-0.3674E+00	-0.3248E+01	-0.1641E+00	0.5441E-02	-0.1201E-02
127	0.6629E-01	-0.6149E-02	-0.2894E+01	-0.1527E+00	0.5100E-02	-0.1299E-02
129	0.3112E-01	-0.3626E-02	-0.6025E-01	-0.5317E-01	0.3007E-02	-0.1339E-02
9024	0.9388E-02	-0.1813E-02	0.2171E+00	0.1034E-01	0.1504E-02	-0.9233E-03
130	0.2070E-09	-0.3964E-07	0.2965E-07	0.3507E-06	0.8539E-10	-0.8731E-10
48	-0.1531E-02	-0.5261E+00	0.1462E+00	0.7402E-01	0.2280E-03	0.2177E-01
49	-0.1526E-02	-0.4034E+00	0.1455E+00	0.7469E-01	0.1129E-03	0.2695E-01
50	-0.1520E-02	-0.2566E+00	0.1451E+00	0.7536E-01	0.1158E-03	0.3140E-01
51	-0.1518E-02	-0.2084E+00	0.1449E+00	0.7556E-01	0.1367E-03	0.3259E-01
52	-0.1511E-02	-0.1792E-01	0.1439E+00	0.7629E-01	0.2903E-03	0.3632E-01
53	-0.1483E-02	0.1013E+01	0.1178E+00	0.7952E-01	0.2216E-02	0.4760E-01
54	-0.1440E-02	0.2870E+01	-0.5905E-01	0.8428E-01	0.8300E-02	0.5450E-01
55	-0.1439E-02	0.2911E+01	-0.6554E-01	0.8438E-01	0.8447E-02	0.5454E-01
56	0.3190E-01	0.2798E+01	-0.9932E-01	0.8515E-01	0.8597E-02	0.5511E-01
57	0.5106E-01	0.2606E+01	-0.9944E-01	0.8529E-01	0.8417E-02	0.5535E-01
58	0.6814E-01	0.2435E+01	-0.9954E-01	0.8537E-01	0.8133E-02	0.5556E-01
59	0.9210E-01	0.2179E+01	-0.9970E-01	0.8536E-01	0.7254E-02	0.5589E-01
103	0.9224E-01	0.1975E+01	-0.7929E-01	0.8507E-01	0.1765E-02	0.5270E-01
104	0.9279E-01	0.1501E+01	-0.1330E+00	0.8390E-01	-0.1056E-01	0.5272E-01
105	0.9297E-01	0.1338E+01	-0.1661E+00	0.8352E-01	-0.1114E-01	0.5664E-01
106	0.9315E-01	0.1161E+01	-0.1987E+00	0.8314E-01	-0.1027E-01	0.6072E-01
107	0.9382E-01	0.4309E+00	-0.2496E+00	0.8169E-01	0.4454E-02	0.6224E-01

109	0.1050E+01	0.2165E+00	-0.2403E+00	0.8142E-01	0.8276E-02	0.5927E-01
111	0.1315E+00	-0.5479E-01	-0.2403E+00	0.7898E-01	0.4990E-02	0.5395E-01
112	0.1359E+00	-0.1656E+00	-0.2403E+00	0.7729E-01	0.1899E-03	0.5172E-01
60	0.1127E+00	0.1923E+01	-0.9985E-01	0.8518E-01	0.5957E-02	0.5628E-01
61	0.1286E+00	0.1667E+01	-0.1000E+00	0.8482E-01	0.4207E-02	0.5668E-01
62	0.1297E+00	0.1646E+01	-0.1000E+00	0.8478E-01	0.4041E-02	0.5672E-01
63	0.1347E+00	0.1116E+01	-0.1039E+00	0.8303E-01	-0.3585E-02	0.5721E-01
64	0.1351E+00	0.4881E+00	-0.1700E+00	0.7982E-01	-0.6664E-02	0.5645E-01
65	0.1353E+00	0.2078E+00	-0.2025E+00	0.7835E-01	-0.5556E-02	0.5534E-01
131	-0.4421E-01	0.2078E+00	0.5181E-01	0.7831E-01	-0.5556E-02	0.5529E-01
132	-0.2242E+00	0.2079E+00	0.3067E+00	0.7835E-01	-0.5556E-02	0.5552E-01
66	0.1354E+00	-0.6731E-01	-0.2256E+00	0.7785E-01	-0.3571E-02	0.5429E-01
67	0.1354E+00	-0.2957E+00	-0.2371E+00	0.7743E-01	-0.1736E-02	0.5286E-01
68	0.1354E+00	-0.4527E+00	-0.2403E+00	0.7713E-01	-0.3608E-03	0.5156E-01
69	0.1354E+00	-0.6054E+00	-0.2397E+00	0.7676E-01	0.8632E-03	0.4996E-01
70	0.1354E+00	-0.7166E+00	-0.2367E+00	0.7647E-01	0.1830E-02	0.4860E-01
71	0.1355E+00	-0.9517E+00	-0.2221E+00	0.7585E-01	0.4138E-02	0.4504E-01
133	-0.1094E-01	-0.9518E+00	0.2441E-01	0.7585E-01	0.4128E-02	0.4505E-01
134	-0.1575E+00	-0.9518E+00	0.2712E+00	0.7586E-01	0.4128E-02	0.4507E-01
72	0.1355E+00	-0.1168E+01	-0.1954E+00	0.7555E-01	0.6325E-02	0.4132E-01
73	0.1355E+00	-0.1925E+01	0.1485E-01	0.7423E-01	0.1107E-01	0.2772E-01
74	0.1355E+00	-0.1993E+01	0.4287E-01	0.7408E-01	0.1104E-01	0.2655E-01
75	0.1355E+00	-0.2120E+01	0.9738E-01	0.7379E-01	0.1033E-01	0.2451E-01
76	0.1355E+00	-0.2238E+01	0.1463E+00	0.7349E-01	0.8798E-02	0.2318E-01
77	0.1355E+00	-0.2295E+01	0.1673E+00	0.7334E-01	0.7723E-02	0.2286E-01
78	0.1355E+00	-0.2387E+01	0.1952E+00	0.7322E-01	0.6240E-02	0.2304E-01
9021	0.1354E+00	-0.3019E+01	0.2511E+00	0.7238E-01	-0.1407E-02	0.1946E-01
79	0.1354E+00	-0.3459E+01	0.1666E+00	0.7154E-01	-0.3435E-02	0.1135E-01
80	0.1354E+00	-0.3568E+01	0.1326E+00	0.7122E-01	-0.2600E-02	0.8819E-02
81	0.1353E+00	-0.3591E+01	0.1260E+00	0.7114E-01	-0.2251E-02	0.8367E-02
82	0.1394E+00	-0.3354E+01	0.1197E+00	0.7085E-01	-0.5690E-03	0.7295E-02
9022	0.1112E+00	-0.1620E+01	0.1195E+00	0.6200E-01	0.2412E-02	0.3985E-02
83	0.3539E-01	-0.3050E+00	0.1193E+00	0.3749E-01	0.3064E-02	0.6741E-03
84	0.2827E-01	-0.2209E+00	0.1193E+00	0.3439E-01	0.3001E-02	0.4727E-03
85	0.2329E-01	-0.1653E+00	0.1193E+00	0.3208E-01	0.2944E-02	0.1572E-03
86	0.3838E-02	-0.3988E-02	0.3773E-01	0.1503E-01	0.1930E-02	-0.9678E-03
87	0.2550E-08	-0.1820E-07	0.6038E-08	0.1105E-07	-0.1932E-09	-0.1393E-08

COUPLED MODE SHAPES (FOR SECONDARY MODE) MODE 14
FREQUENCY (HZ.) = 8.30712

MODAL DISP AT PRIMARY SYSTEM CONNETING DOF

DOF #	DISPLACEMENT
3041	0.6954E-06
3042	0.0000E+00
3043	-0.1187E-05
3061	0.2580E-05
3063	-0.3990E-05
3072	0.0000E+00
3081	0.5223E-05
3103	-0.1437E-04
3121	0.1325E-04
3122	0.0000E+00
3123	-0.1874E-04
3091	0.6481E-05
3092	0.0000E+00
3093	-0.8900E-05

MODAL DISPLACEMENTS AT SECONDARY SYSTEM DOF

NODE	DX	DY	DZ	ROT-X	ROT-Y	ROT-Z
1	0.1162E-06	0.4609E-06	0.1452E-06	0.1862E-09	-0.1806E-08	0.1813E-08
2	0.4279E-02	0.4628E-02	0.4281E-02	-0.1688E-03	-0.1759E-02	0.1964E-02
3	0.2223E-01	0.5701E-01	0.5719E-01	-0.1107E-02	-0.5393E-02	0.5224E-02
4	0.2226E-01	0.2255E+00	0.2693E+00	-0.2678E-02	-0.1031E-01	0.6603E-02
5	0.2228E-01	0.3084E+00	0.4210E+00	-0.3468E-02	-0.1232E-01	0.5550E-02
9001	0.1963E-01	0.3184E+00	0.4427E+00	-0.3551E-02	-0.1280E-01	0.5101E-02
9002	0.1298E-01	0.3251E+00	0.4557E+00	-0.1626E-02	-0.1321E-01	0.4622E-02
6	0.4783E-02	0.3274E+00	0.4554E+00	-0.3757E-02	-0.1356E-01	0.4134E-02
7	-0.4165E-02	0.3274E+00	0.4469E+00	-0.3866E-02	-0.1397E-01	0.3834E-02
9003	-0.6911E-01	0.3275E+00	0.2783E+00	-0.5107E-02	-0.2062E-01	0.6732E-04
9004	-0.3790E-01	0.3276E+00	0.9604Z-01	-0.4274E-02	-0.2726E-01	-0.1309E-02
9	-0.6078E-02	0.3276E+00	0.4535E-02	-0.5709E-04	-0.3391E-01	0.7944E-04
10	-0.8067E-02	0.3276E+00	0.7572E-02	0.1052E-02	-0.3506E-01	0.4722E-03
9005	-0.2152E-01	0.3276E+00	0.1003E+00	0.3864E-02	-0.4070E-01	-0.4340E-03
9006	0.6631E-01	0.3275E+00	0.1923E+00	0.1088E-02	-0.4635E-01	-0.5893E-02
11	0.4013E+00	0.3274E+00	0.1179E+00	-0.6650E-02	-0.5199E-01	-0.1630E-01
12	0.6010E+00	0.3273E+00	0.2721E-01	-0.1034E-01	-0.5394E-01	-0.2104E-01
9007	0.6420E+00	0.3161E+00	0.3387E-01	-0.1161E-01	-0.5421E-01	-0.2277E-01
9008	0.6744E+00	0.2636E+00	0.9183E-01	-0.1270E-01	-0.5443E-01	-0.2452E-01
13	0.6870E+00	0.2359E+00	0.1877E+00	-0.1368E-01	-0.5478E-01	-0.2625E-01
14	0.6870E+00	0.1618E+00	0.3390E+00	-0.1505E-01	-0.5510E-01	-0.2753E-01
15	0.6869E+00	-0.1157E-01	0.6716E+00	-0.1804E-01	-0.5570E-01	-0.3015E-01
16	0.6868E+00	-0.4647E+00	0.1457E+01	-0.2498E-01	-0.5683E-01	-0.3400E-01
17	0.6241E+00	-0.5272E+00	0.1608E+01	-0.2653E-01	-0.5720E-01	-0.3436E-01
18	0.3427E+00	-0.5596E+00	0.1889E+01	-0.3017E-01	-0.5745E-01	-0.3512E-01
19	-0.5571E-01	-0.5744E+00	0.2288E+01	-0.3641E-01	-0.5727E-01	-0.3510E-01
20	-0.1092E+01	-0.3202E+00	0.3323E+01	-0.5865E-01	-0.5540E-01	-0.2932E-01
21	-0.1141E+01	-0.2279E+00	0.3225E+01	-0.6853E-01	-0.5428E-01	-0.2396E-01
9009	-0.4836E+00	-0.2284E+00	0.3064E+01	-0.8328E-01	-0.5026E-01	-0.1053E-01
9010	-0.1939E+00	-0.2288E+00	-0.2867E+01	-0.5364E-01	-0.4624E-01	-0.4880E-02
22	-0.3040E-01	-0.2292E+00	-0.3854E+01	0.7551E-02	-0.4222E-01	-0.3937E-02
23	0.4079E-02	-0.2293E+00	-0.3727E+01	0.2244E-01	-0.4137E-01	-0.4226E-03
24	0.7749E-01	-0.2295E+00	-0.3138E+01	0.4860E-01	-0.3973E-01	-0.4617E-02
9011	0.2209E+00	-0.2297E+00	-0.8827E+00	0.8093E-01	-0.3638E-01	-0.3558E-02
9012	0.2953E+00	-0.2300E+00	0.1889E+01	0.7874E-01	-0.3304E-01	-0.6855E-03

25	0.2615E+00	-0.2302E+00	0.4027E+01	0.4467E-01	-0.2969E-01	0.2653E-02
26	0.2321E+00	-0.2303E+00	0.4385E+01	0.3058E-01	-0.2874E-01	0.3512E-02
9013	0.6722E-01	-0.2305E+00	0.4516E+01	-0.2284E-01	-0.2519E-01	0.5411E-02
9014	-0.1227E+00	-0.2306E+00	0.2957E+01	-0.5996E-01	-0.2164E-01	0.4850E-02
27	-0.2499E+00	-0.2308E+00	0.7276E+00	-0.5746E-01	-0.1809E-01	0.2002E-02
28	-0.2667E+00	-0.2308E+00	0.4647E-01	-0.4376E-01	-0.1676E-01	0.5228E-03
29	-0.2548E+00	-0.2309E+00	-0.5822E+00	-0.2009E-01	-0.1476E-01	-0.1666E-02
9015	-0.1354E+00	-0.2309E+00	-0.7218E+00	0.9010E-02	-0.1101E-01	-0.4324E-02
9016	0.3918E-01	-0.2309E+00	-0.1939E+00	0.1476E-01	-0.7270E-02	-0.4130E-02
30	0.1336E+00	-0.2309E+00	0.5315E-01	-0.6256E-02	-0.3527E-02	-0.7107E-03
31	0.1342E+00	-0.2309E+00	0.4651E-01	-0.7197E-02	-0.3427E-02	-0.5765E-03
32	0.1313E+00	-0.2193E+00	0.2107E-01	-0.1247E-01	-0.3182E-02	0.8886E-04
35	0.1230E+00	-0.1786E+00	0.5423E-02	-0.1794E-01	-0.2880E-02	0.6328E-03
37	0.1011E+00	0.8841E-02	0.5555E-02	-0.2647E-01	-0.2146E-02	0.2189E-02
9017	0.4946E-01	0.1228E+01	0.6058E-02	-0.4343E-01	-0.1012E-02	0.8159E-02
9018	0.2654E-01	0.2524E+01	0.6562E-02	-0.3221E-01	-0.5327E-03	0.1413E-01
38	0.7875E-02	0.3111E+01	0.7064E-02	-0.1745E-02	-0.7270E-03	0.2010E-01
39	-0.5770E-03	0.3067E+01	0.7225E-02	0.1031E-01	-0.9170E-03	0.2201E-01
9019	-0.3590E-01	0.2156E+01	0.7752E-02	0.3929E-01	-0.9001E-03	0.2830E-01
40	-0.4656E-01	0.7055E+00	0.8277E-02	0.3990E-01	0.4966E-03	0.3458E-01
41	-0.2330E-02	-0.1232E+00	0.8731E-02	0.1140E-01	0.2645E-02	0.4001E-01
43	0.8877E-02	0.1151E-01	-0.3571E-02	-0.2838E-02	0.3883E-02	0.4330E-01
44	0.8876E-02	0.7396E-01	-0.9226E-02	-0.5781E-02	0.4136E-02	0.4371E-01
45	0.8873E-02	0.2432E+00	-0.2625E-01	-0.1357E-01	0.4998E-02	0.4451E-01
9020	0.8851E-02	0.1363E+01	-0.2349E+00	-0.7188E-01	0.8053E-02	0.2659E-01
46	0.8828E-02	0.1393E+01	-0.4072E+00	-0.1302E+00	0.2588E-02	-0.3116E-01
47	0.8826E-02	0.1288E+01	-0.4135E+00	-0.1363E+00	0.1544E-02	-0.3940E-01
91	0.1272E+00	0.1288E+01	-0.8240E+00	-0.1382E+00	0.9103E-03	-0.3958E-01
92	0.5800E+00	0.1289E+01	-0.2457E+01	-0.1523E+00	-0.3653E-02	-0.4101E-01
93	0.7157E+00	0.1893E+01	-0.3048E+01	-0.1643E+00	-0.6358E-02	-0.4202E-01
94	0.6934E+00	0.2431E+01	-0.3048E+01	-0.1664E+00	-0.7324E-02	-0.4264E-01
95	0.6531E+00	0.3269E+01	-0.3048E+01	-0.1672E+00	-0.8748E-02	-0.4359E-01
96	0.6059E+00	0.4104E+01	-0.3048E+01	-0.1654E+00	-0.1002E-01	-0.4454E-01
97	0.6034E+00	0.4145E+01	-0.3048E+01	-0.1652E+00	-0.1007E-01	-0.4459E-01
98	0.3916E+00	0.4756E+01	-0.2447E+01	-0.1560E+00	-0.1212E-01	-0.4601E-01
100	0.1834E+00	0.4756E+01	-0.1756E+01	-0.1508E+00	-0.1324E-01	-0.4641E-01
101	0.4380E-01	0.4756E+01	-0.1308E+01	-0.1470E+00	-0.1399E-01	-0.4656E-01
102	-0.1323E+00	0.4756E+01	-0.7527E+00	-0.1486E+00	-0.1460E-01	-0.4728E-01
113	-0.4316E-01	0.5545E+01	-0.1308E+01	-0.1075E+00	-0.1518E-01	-0.4173E-01
114	-0.1095E+00	0.5928E+01	-0.1308E+01	-0.7592E-01	-0.1596E-01	-0.3724E-01
115	-0.1785E+00	0.6176E+01	-0.1309E+01	-0.4496E-01	-0.1643E-01	-0.3274E-01
116	-0.2823E+00	0.6348E+01	-0.1309E+01	-0.1336E-01	-0.1663E-01	-0.2613E-01
118	-0.2671E+00	0.6358E+01	-0.1307E+01	0.7779E-02	-0.1683E-01	-0.2184E-01
9023	0.8613E-01	0.6354E+01	0.4553E+00	0.1229E+00	-0.1515E-01	-0.4575E-02
120	0.9281E-01	0.6350E+01	0.6130E+01	0.2825E+00	-0.1348E-01	0.2248E-02
122	0.5764E-01	0.5660E+01	0.6796E+01	0.3194E+00	-0.1319E-01	0.2379E-02
124	0.2552E-02	0.4261E+01	0.6795E+01	0.3379E+00	-0.1274E-01	0.2473E-02
125	-0.1195E+00	0.7633E+00	0.6795E+01	0.3407E+00	-0.1138E-01	0.2700E-02
127	-0.1381E+00	0.1252E-01	0.6059E+01	0.3180E+00	-0.1067E-01	0.2849E-02
129	-0.6367E-01	0.7385E-02	0.1281E+00	0.1122E+00	-0.6292E-02	0.2770E-02
9024	-0.1907E-01	0.3693E-02	-0.4557E+00	-0.2168E-01	-0.3146E-02	0.1882E-02
130	-0.4057E-05	0.8074E-07	-0.6229E-07	-0.7364E-08	-0.1787E-09	0.1765E-09
48	0.8827E-02	0.1157E+01	-0.4180E+00	-0.1376E+00	0.1352E-02	-0.4715E-01
49	0.8830E-02	0.8902E+00	-0.4236E+00	-0.1398E+00	0.8349E-03	-0.5245E-01
50	0.8832E-02	0.5722E+00	-0.4263E+00	-0.1420E+00	0.1208E-03	-0.6764E-01
51	0.8833E-02	0.4685E+00	-0.4264E+00	-0.1426E+00	-0.1225E-03	-0.6996E-01
52	0.8836E-02	0.6199E-01	-0.4232E+00	-0.1450E+00	-0.1123E-02	-0.7678E-01
53	0.8846E-02	-0.2054E-01	-0.3296E+00	-0.1556E+00	-0.6975E-02	-0.9584E-01
54	0.8860E-02	-0.5761E+01	0.1172E+00	-0.1713E+00	-0.1848E-01	-0.1090E+00
55	0.8860E-02	-0.5843E+01	0.1316E+00	-0.1716E+00	-0.1871E-01	-0.1092E+00
56	-0.6237E-01	-0.5604E+01	0.2047E+00	-0.1742E+00	-0.1808E-01	-0.1109E+00
57	-0.1024E+00	-0.5212E+01	0.2049E+00	-0.1747E+00	-0.1755E-01	-0.1117E+00
58	-0.1379E+00	-0.4862E+01	0.2051E+00	-0.1750E+00	-0.1684E-01	-0.1123E+00
59	-0.1872E+00	-0.4336E+01	0.2055E+00	-0.1752E+00	-0.1489E-01	-0.1133E+00
103	-0.1875E+00	-0.3922E+01	0.1635E+00	-0.1746E+00	-0.3665E-02	-0.1072E+00
104	-0.1886E+00	-0.2954E+01	0.2727E+00	-0.1721E+00	0.2148E-01	-0.1084E+00
105	-0.1890E+00	-0.2617E+01	0.3401E+00	-0.1714E+00	0.2264E-01	-0.1167E+00
106	-0.1891E+00	-0.2253E+01	0.4062E+00	-0.1706E+00	0.2083E-01	-0.1253E+00
107	-0.1907E+00	-0.7467E+00	0.5094E+00	-0.1676E+00	-0.8966E-02	-0.1281E+00
109	-0.2132E+00	-0.3063E+00	0.4907E+00	-0.1670E+00	-0.1668E-01	-0.1216E+00
111	-0.2667E+00	0.2499E+00	0.4907E+00	-0.1619E+00	-0.1010E-01	-0.1102E+00
112	-0.2755E+00	0.4769E+00	0.4907E+00	-0.1584E+00	-0.4568E-03	-0.1054E+00
60	-0.2292E+00	-0.3810E+01	0.2058E+00	-0.1750E+00	-0.1215E-01	-0.1145E+00
61	-0.2616E+00	-0.3285E+01	0.2061E+00	-0.1743E+00	-0.8520E-02	-0.1156E+00
62	-0.2638E+00	-0.3242E+01	0.2061E+00	-0.1742E+00	-0.8178E-02	-0.1157E+00
63	-0.2736E+00	-0.2154E+01	0.2143E+00	-0.1707E+00	0.7348E-02	-0.1174E+00
64	-0.2745E+00	-0.8625E+00	0.3490E+00	-0.1639E+00	0.1354E-01	-0.1161E+00
65	-0.2748E+00	-0.2864E+00	0.4150E+00	-0.1608E+00	0.1124E-01	-0.1136E+00
131	0.9373E-01	-0.2864E+00	-0.1070E+00	-0.1607E+00	0.1124E-01	-0.1135E+00
132	0.4632E+00	-0.2864E+00	-0.6300E+00	-0.1608E+00	0.1124E-01	-0.1136E+00
66	-0.2748E+00	0.2778E+00	0.4615E+00	-0.1597E+00	0.7175E-02	-0.1112E+00
67	-0.2748E+00	0.7449E+00	0.4844E+00	-0.1587E+00	0.3439E-02	-0.1079E+00
68	-0.2748E+00	0.1065E+01	0.4907E+00	-0.1580E+00	0.6501E-03	-0.1050E+00
69	-0.2749E+00	0.1376E+01	0.4892E+00	-0.1572E+00	-0.1827E-02	-0.1015E+00
70	-0.2749E+00	0.1602E+01	0.4830E+00	-0.1565E+00	-0.3778E-02	-0.9850E-01
71	-0.2749E+00	0.2077E+01	0.4531E+00	-0.1552E+00	-0.8397E-02	-0.9072E-01
133	0.1997E-01	0.2077E+01	-0.5114E-01	-0.1552E+00	-0.8397E-02	-0.9074E-01
134	0.3152E+00	0.2077E+01	-0.5561E+00	-0.1552E+00	-0.8397E-02	-0.9078E-01
72	-0.2749E+00	0.2510E+01	0.3990E+00	-0.1544E+00	-0.1276E-01	-0.8260E-01
73	-0.2749E+00	0.4011E+01	-0.1602E-01	-0.1512E+00	-0.2127E-01	-0.5494E-01
74	-0.2748E+00	0.4145E+01	-0.6954E-01	-0.1508E+00	-0.2104E-01	-0.5278E-01
75	-0.2748E+00	0.4399E+01	-0.1729E+00	-0.1501E+00	-0.1958E-01	-0.4934E-01
76	-0.2748E+00	0.4639E+01	-0.2654E+00	-0.1494E+00	-0.1676E-01	-0.4760E-01
77	-0.2748E+00	0.4757E+01	-0.3055E+00	-0.1490E+00	-0.1486E-01	-0.4755E-01
78	-0.2748E+00	0.4949E+01	-0.3594E+00	-0.1490E+00	-0.1212E-01	-0.4846E-01
9021	-0.2747E+00	0.6317E+01	-0.4795E+00	-0.1493E+00	0.2054E-02	-0.4318E-01
79	-0.2746E+00	0.7315E+01	-0.3370E+00	-0.1496E+00	0.5949E-02	-0.2634E-01
80	-0.2746E+00	0.7568E+01	-0.2782E+00	-0.1497E+00	0.4463E-02	-0.2079E-01
81	-0.2746E+00	0.7622E+01	-0.2668E+00	-0.1497E+00	0.3728E-02	-0.1978E-01
82	-0.2817E+00	0.7130E+01	-0.2563E+00	-0.1496E+00	0.7555E-03	-0.1727E-01
9022	-0.2212E+00	0.3454E+01	-0.2560E+00	-0.1319E+00	-0.4777E-02	-0.9572E-02

83	-0.7121E-01	0.6504E+00	-0.2557E+00	-0.8009E-01	-0.6135E-02	-0.1879E-02
84	-0.5694E-01	0.4706E+00	-0.2556E+00	-0.7348E-01	-0.6038E-02	-0.1178E-02
85	-0.4690E-01	0.3518E+00	-0.2556E+00	-0.6855E-01	-0.5946E-02	-0.6775E-03
86	-0.7814E-02	0.8152E-02	-0.8066E-01	-0.3206E-01	-0.4004E-02	0.1931E-02
87	-0.4633E-08	0.3985E-07	-0.1157E-07	-0.2355E-07	0.4580E-09	0.2867E-08

COUPLED MODE SHAPES (FOR SECONDARY MODE) MODE 15
FREQUENCY (HZ.) = 10.62667

MODAL DISP AT PRIMARY SYSTEM CONNETING DOF

DOF #	DISPLACEMENT
3041	0.6779E-05
3042	0.0000E+00
3043	-0.4517E-04
3061	0.1658E-04
3063	-0.1518E-03
3072	0.0000E+00
3081	0.2663E-04
3101	-0.5465E-03
3121	0.5217E-04
3122	0.0000E+00
3123	-0.7131E-03
3091	0.3077E-04
3092	0.0000E+00
3093	-0.3386E-03

MODAL DISPLACEMENTS AT SECONDARY SYSTEM DOF

NODE	DX	DY	DZ	ROT-X	ROT-Y	ROT-Z
1	0.1577E-07	-0.3559E-08	0.1657E-06	-0.2960E-08	-0.8579E-07	-0.1522E-08
2	0.2017E+00	-0.1061E-01	0.2029E+00	-0.3117E-02	-0.8216E-01	-0.1232E-02
3	0.1024E+01	-0.7827E-01	0.2601E+01	-0.1064E-01	-0.2367E+00	-0.3418E-02
4	0.1025E+01	0.1994E+00	0.1099E+02	-0.2405E-01	-0.3645E+00	-0.5072E-02
5	0.1025E+01	-0.2655E+00	0.1595E+02	-0.3079E-01	-0.3703E+00	-0.4666E-02
9001	0.1027E+01	-0.2741E+00	0.1662E+02	-0.3214E-01	-0.3668E+00	-0.4440E-02
9002	0.1033E+01	-0.2801E+00	0.1708E+02	-0.3447E-01	-0.3628E+00	-0.4155E-02
6	0.1040E+01	-0.2822E+00	0.1720E+02	-0.3763E-01	-0.3591E+00	-0.3792E-02
7	0.1049E+01	-0.2822E+00	0.1711E+02	-0.4008E-01	-0.3550E+00	-0.3515E-02
9003	0.1042E+01	-0.2822E+00	0.1434E+02	-0.1240E+00	-0.2893E+00	0.5185E-02
9004	0.6489E+00	-0.2822E+00	0.8047E+01	-0.2027E+00	-0.2235E+00	0.1541E-01
9	0.6106E-02	-0.2821E+00	0.1026E+01	-0.1480E+00	-0.1578E+00	0.1748E-01
10	-0.1031E+00	-0.2821E+00	0.1655E+00	-0.1201E+00	-0.1464E+00	0.1678E-01
9005	-0.5664E+00	-0.2819E+00	-0.1464E+01	0.7554E-02	-0.9054E-01	0.1272E-01
9006	-0.9098E+00	-0.2817E+00	0.1127E+00	0.8334E-01	-0.3468E-01	0.9805E-02
11	-0.1243E+01	-0.2814E+00	0.3170E+01	0.1025E+00	0.2117E-01	0.1321E-01
12	-0.1403E+01	-0.2812E+00	0.4248E+01	0.9694E-01	0.4038E-01	0.1692E-01
9007	-0.1436E+01	-0.2722E+00	0.4405E+01	0.9387E-01	0.4423E-01	0.1853E-01
9008	-0.1463E+01	-0.2455E+00	0.4468E+01	0.9060E-01	0.4900E-01	0.2019E-01
13	-0.1473E+01	-0.2060E+00	0.4417E+01	0.8794E-01	0.5437E-01	0.2183E-01
14	-0.1473E+01	-0.1441E+00	0.4261E+01	0.8482E-01	0.5861E-01	0.2301E-01
15	-0.1473E+01	0.1131E-02	0.3881E+01	0.7801E-01	0.6851E-01	0.2520E-01
16	-0.1472E+01	0.3779E+00	0.2760E+01	0.6219E-01	0.9213E-01	0.2818E-01
17	-0.1365E+01	0.3880E+00	0.2504E+01	0.5859E-01	0.1010E+00	0.2905E-01
18	-0.8427E+00	0.2585E+00	0.1982E+01	0.5207E-01	0.1113E+00	0.2844E-01
19	-0.2674E-01	0.1196E+00	0.1166E+01	0.4368E-01	0.1230E+00	0.2677E-01
20	0.2387E+01	-0.8775E-01	-0.1247E+01	0.2589E-01	0.1351E+00	0.1792E-01
21	0.2685E+01	-0.1079E+00	-0.1516E+01	0.2227E-01	0.1343E+00	0.1508E-01
9009	0.2135E+01	-0.1075E+00	-0.8256E+00	0.1428E-01	0.1245E+00	0.1658E-01
9010	0.1238E+01	-0.1070E+00	-0.2936E+00	0.1225E-01	0.1147E+00	0.2699E-01
22	0.1628E+00	-0.1065E+00	0.1259E+00	0.7917E-02	0.1048E+00	0.2133E-01
23	0.1917E-01	-0.1064E+00	0.1871E+00	0.6450E-02	0.1027E+00	0.1685E-01
24	-0.1801E+00	-0.1061E+00	0.2679E+00	0.3380E-02	0.9673E-01	0.7774E-02
9011	-0.1933E+00	-0.1056E+00	0.2775E+00	-0.2653E-02	0.9054E-01	-0.5756E-02
9012	0.1183E+00	-0.1051E+00	0.1132E+00	-0.6631E-02	0.8235E-01	-0.1140E-01
25	0.4785E+00	-0.1046E+00	-0.1245E+00	-0.6674E-02	0.7417E-01	-0.8839E-02
26	0.5533E+00	-0.1044E+00	-0.1869E+00	-0.6198E-02	0.7184E-01	-0.6809E-02
9013	0.6345E+00	-0.1039E+00	-0.3362E+00	-0.1751E-02	0.6315E-01	0.2589E-02
9014	0.3828E+00	-0.1032E+00	-0.2987E+00	0.3753E-02	0.5446E-01	0.1087E-01
27	-0.6269E-01	-0.1026E+00	-0.9594E-01	0.7049E-02	0.4577E-01	0.1285E-01
28	-0.2256E+00	-0.1023E+00	-0.2015E-03	0.7373E-02	0.4252E-01	0.1150E-01
29	-0.4215E+00	-0.1020E+00	0.1398E+00	0.6464E-02	0.3762E-01	0.7754E-02
9015	-0.5362E+00	-0.1012E+00	0.3112E+00	0.2123E-02	0.2846E-01	-0.2001E-02
9016	-0.2817E+00	-0.1005E+00	0.2803E+00	-0.3713E-02	0.1930E-01	-0.1081E-01
30	0.1994E+00	-0.9968E-01	0.5862E-01	-0.7527E-02	0.1014E-01	-0.1377E-01
31	0.2132E+00	-0.9965E-01	0.5105E-01	-0.7579E-02	0.9899E-02	-0.1374E-01
32	0.2597E+00	-0.9105E-01	0.3056E-01	-0.7772E-02	0.9098E-02	-0.1348E-01
33	0.2971E+00	-0.7024E-01	0.2194E-01	-0.7647E-02	0.8060E-02	-0.1371E-01
34	0.3576E+00	-0.9719E-02	0.2192E-01	-0.6159E-02	0.6193E-02	-0.1274E-01
9017	0.4360E+00	0.5800E-01	0.2184E-01	0.1293E-02	-0.1262E-02	-0.1093E-01
9018	0.2989E+00	-0.4981E-01	0.2175E-01	0.4605E-02	-0.6531E-02	-0.9120E-02
38	0.6650E-01	-0.1962E+00	0.2166E-01	0.3747E-02	-0.4736E-02	-0.7310E-02
39	0.2352E-02	-0.2300E+00	0.2642E-02	0.2642E-02	-0.5465E-02	-0.6730E-02
9019	-0.1014E+00	-0.2530E+00	0.2153E-01	-0.1542E-02	-0.8688E-03	-0.4825E-02
40	-0.7713E-01	-0.1506E+00	0.2142E-01	-0.4282E-02	0.1901E-02	-0.2921E-02
41	-0.1077E-01	-0.1383E-01	0.2132E-01	-0.4551E-02	0.2225E-02	-0.1276E-02
43	-0.2830E-02	-0.1236E-02	0.1378E-01	-0.4201E-02	0.1819E-02	-0.9642E-03
44	-0.3827E-02	-0.2575E-02	0.1119E-01	-0.4113E-02	0.1741E-02	-0.9221E-03
45	-0.4192E-02	-0.5893E-02	-0.4941E-02	-0.3681E-02	0.1491E-02	-0.8197E-03
9020	-0.2760E-02	-0.1903E-01	-0.1332E-01	-0.2145E-02	-0.3778E-05	-0.1236E-03
46	-0.2701E-02	-0.1460E-01	-0.6091E-02	-0.4096E-03	-0.2808E-03	0.3926E-03
47	-0.2695E-02	-0.1336E-01	-0.5292E-02	-0.2271E-03	-0.2369E-03	0.4331E-03
91	-0.3976E-02	-0.1336E-01	-0.5916E-02	-0.1681E-03	-0.2116E-03	0.4168E-03
92	-0.8221E-02	-0.1338E-01	-0.5821E-02	0.1360E-03	-0.2989E-04	0.3650E-03
93	-0.9456E-02	-0.1426E-01	-0.5062E-02	0.2579E-03	0.6924E-04	0.3780E-03
94	-0.9177E-02	-0.1514E-01	-0.5058E-02	0.2653E-03	0.9333E-04	0.3949E-03
95	-0.8637E-02	-0.1646E-01	-0.5051E-02	0.2427E-03	0.1110E-03	0.4211E-03

96	-0.8067E-02	-0.1756E-01	-0.5044E-02	0.1818E-03	0.1035E-03	0.4472E-03
97	-0.8040E-02	-0.1761E-01	-0.5043E-02	0.1778E-03	0.1025E-03	0.4485E-03
98	-0.5979E-02	-0.1803E-01	-0.5250E-02	-0.4321E-05	0.4205E-04	0.4636E-03
100	-0.3889E-02	-0.1804E-01	-0.5078E-02	-0.5069E-04	-0.7361E-05	0.4526E-03
101	-0.2545E-02	-0.1804E-01	-0.4884E-02	-0.6102E-04	-0.4030E-04	0.4331E-03
102	-0.9566E-03	-0.1805E-01	-0.4629E-02	-0.5531E-04	-0.8400E-04	0.4025E-03
103	-0.2760E-02	-0.1772E-01	-0.4885E-02	-0.4711E-04	-0.2848E-04	0.3755E-03
114	-0.2857E-02	-0.1753E-01	-0.4885E-02	-0.5022E-04	-0.1732E-04	0.3219E-03
115	-0.2908E-02	-0.1729E-01	-0.4885E-02	-0.6220E-04	-0.7071E-05	0.2683E-03
116	-0.2912E-02	-0.1684E-01	-0.4885E-02	-0.8162E-04	0.4368E-05	0.1895E-03
118	-0.3247E-02	-0.1663E-01	-0.5104E-02	-0.1058E-03	0.1562E-04	0.1379E-03
9023	-0.3958E-02	-0.1661E-01	-0.1020E-01	-0.2702E-03	0.5874E-04	-0.6375E-04
120	-0.9651E-05	-0.1663E-01	-0.2260E-01	-0.6541E-03	0.1019E-03	-0.1126E-03
122	-0.4842E-03	-0.1499E-01	-0.2416E-01	-0.7727E-03	0.1060E-03	-0.1030E-03
124	-0.3055E-04	-0.1154E-01	-0.2416E-01	-0.8489E-03	0.1066E-03	-0.9142E-04
125	0.1020E-02	-0.3234E-02	-0.2416E-01	-0.9708E-03	0.5953E-04	-0.6381E-04
127	0.1110E-02	-0.1949E-04	-0.2192E-01	-0.1000E-02	0.9460E-04	-0.5346E-04
129	0.2588E-03	-0.1149E-04	-0.6398E-03	-0.4463E-03	0.5577E-04	-0.1782E-04
9024	0.4787E-04	-0.5746E-05	0.1751E-02	0.8105E-04	0.2789E-04	-0.6080E-05
130	-0.2041E-11	-0.1256E-09	0.2444E-09	0.2860E-10	0.1584E-11	-0.2600E-12
48	-0.2691E-02	-0.1183E-01	-0.4602E-02	-0.2063E-03	-0.2236E-03	0.5001E-03
49	-0.2684E-02	-0.9190E-02	-0.3538E-02	-0.1716E-03	-0.2030E-03	0.5700E-03
50	-0.2677E-02	-0.6232E-02	-0.2572E-02	-0.1370E-03	-0.1835E-03	0.5858E-03
51	-0.2675E-02	-0.5343E-02	-0.2301E-02	-0.1265E-03	-0.1777E-03	0.5797E-03
52	-0.2668E-02	-0.2256E-02	-0.1383E-02	-0.8842E-04	-0.1561E-03	0.5142E-03
53	-0.2634E-02	0.5700E-02	0.1172E-02	0.7981E-04	-0.5106E-04	0.1791E-03
54	-0.2563E-02	0.8835E-02	-0.3080E-03	0.3278E-03	0.1422E-03	0.8082E-04
55	-0.2582E-02	0.8896E-02	-0.4172E-03	0.3330E-03	0.1466E-03	0.8401E-04
56	-0.1906E-02	0.7925E-02	-0.1050E-02	0.3703E-03	0.1753E-03	0.1295E-03
57	-0.1504E-02	0.7060E-02	-0.1051E-02	0.3773E-03	0.1661E-03	0.1474E-03
58	-0.1183E-02	0.6316E-02	-0.1051E-02	0.3815E-03	0.1539E-03	0.1634E-03
59	-0.7492E-03	0.5161E-02	-0.1052E-02	0.3840E-03	0.1351E-03	0.1873E-03
103	-0.7472E-03	0.4409E-02	-0.6152E-03	0.3713E-03	0.8008E-04	0.2341E-03
104	-0.7392E-03	0.1554E-02	-0.5735E-03	0.3599E-03	-0.4326E-04	0.3630E-03
105	-0.7366E-03	0.4314E-03	-0.7174E-03	0.3033E-03	-0.4888E-04	0.3824E-03
106	-0.7340E-03	-0.7321E-03	-0.8540E-03	0.2866E-03	-0.3867E-04	0.3910E-03
107	-0.7239E-03	-0.5055E-02	-0.4986E-03	0.2230E-03	0.1374E-03	0.3369E-03
108	-0.4648E-03	-0.5675E-02	-0.2613E-03	0.2129E-03	0.1796E-03	0.3105E-03
111	0.8192E-04	-0.6559E-02	-0.2616E-03	0.1918E-03	0.1070E-03	0.2614E-03
112	0.1850E-03	-0.6824E-02	-0.2618E-03	0.1811E-03	0.2481E-04	0.2407E-03
60	-0.3720E-03	0.4005E-02	-0.1052E-02	0.3821E-03	0.1172E-03	0.2104E-03
61	-0.4740E-04	0.2861E-02	-0.1053E-02	0.3757E-03	0.1000E-03	0.2334E-03
62	-0.2269E-04	0.2767E-02	-0.1053E-02	0.3750E-03	0.9864E-04	0.2358E-03
63	0.2660E-03	0.4058E-03	-0.8216E-03	0.3424E-03	0.4487E-04	0.2789E-03
64	0.2652E-03	-0.2818E-02	-0.5299E-03	0.2731E-03	0.1632E-04	0.2933E-03
65	0.2649E-03	-0.4268E-02	-0.4608E-03	0.2416E-03	0.1484E-04	0.2800E-03
131	-0.6394E-03	-0.4268E-02	0.3217E-03	0.2412E-03	0.1484E-04	0.2793E-03
132	-0.1550E-02	-0.4269E-02	0.1107E-02	0.2414E-03	0.1484E-04	0.2797E-03
66	0.2618E-03	-0.5645E-02	-0.3813E-03	0.2165E-03	0.1624E-04	0.2674E-03
67	0.2593E-03	-0.6755E-02	-0.3104E-03	0.1953E-03	0.1632E-04	0.2523E-03
68	0.2574E-03	-0.7495E-02	-0.2618E-03	0.1803E-03	0.1576E-04	0.2392E-03
69	0.2560E-03	-0.8193E-02	-0.2208E-03	0.1649E-03	0.1122E-04	0.2238E-03
70	0.2549E-03	-0.8684E-02	-0.1992E-03	0.1534E-03	0.7562E-05	0.2111E-03
71	0.2524E-03	-0.9667E-02	-0.1823E-03	0.1279E-03	-0.1310E-05	0.1790E-03
133	-0.3268E-03	-0.9667E-02	0.2312E-03	0.1275E-03	-0.1310E-05	0.1787E-03
134	-0.9087E-03	-0.9668E-02	0.6463E-03	0.1276E-03	-0.1313E-05	0.1789E-03
72	0.2485E-03	-0.1049E-01	-0.2125E-03	0.1074E-03	-0.1437E-04	0.1552E-03
73	0.2313E-03	-0.1392E-01	-0.1870E-02	0.1636E-04	-0.1612E-03	0.1962E-03
74	0.2294E-03	-0.1443E-01	-0.2318E-02	0.6136E-05	-0.1801E-03	0.2188E-03
75	0.2255E-03	-0.1564E-01	-0.3284E-02	-0.1434E-04	-0.1831E-03	0.2713E-03
76	0.2216E-03	-0.1715E-01	-0.4189E-02	-0.3482E-04	-0.1604E-03	0.3420E-03
77	0.2197E-03	-0.1805E-01	-0.4673E-02	-0.4504E-04	-0.1022E-03	0.3851E-03
78	0.2201E-03	-0.1963E-01	-0.4813E-02	-0.5246E-05	-0.6890E-04	0.4025E-03
9021	0.2227E-03	-0.3172E-01	-0.4038E-02	0.2790E-03	0.1017E-03	0.4040E-03
79	0.2252E-03	-0.4155E-01	-0.2429E-03	0.5633E-03	0.1372E-03	0.2742E-03
80	0.2262E-03	-0.4424E-01	0.1137E-02	0.6713E-03	0.1114E-03	0.2214E-03
81	0.2264E-03	-0.4462E-01	0.1426E-02	0.6979E-03	0.1017E-03	0.2149E-03
82	-0.4824E-04	-0.4280E-01	0.1749E-02	0.7675E-03	0.5685E-04	0.1829E-03
9022	-0.4420E-03	-0.2205E-01	0.1752E-02	0.8034E-03	-0.1325E-04	0.1065E-03
83	0.3175E-04	-0.4204E-02	0.1756E-02	0.5251E-03	-0.1048E-04	0.3003E-04
84	0.5281E-04	-0.3024E-02	0.1756E-02	0.4819E-03	-0.8553E-05	0.2308E-04
85	0.6190E-04	-0.3243E-02	0.1756E-02	0.4492E-03	-0.3371E-05	0.1810E-04
86	0.3501E-04	-0.3933E-04	0.5299E-03	0.2038E-03	0.1234E-04	-0.7134E-05
87	-0.7485E-10	-0.3749E-09	-0.1032E-09	0.1460E-08	-0.7570E-11	-0.8443E-10

COUPLED MODE SHAPES (FOR SECONDARY MODE) MODE 16
FREQUENCY (HZ.) = 13.12596

MODAL DISP AT PRIMARY SYSTEM CONNETING DOF

DOF #	DISPLACEMENT
3041	-0.5133E-04
3042	0.0000E+00
3043	0.1234E-04
3061	-0.1395E-03
3063	0.4147E-04
3072	0.0000E+00
3081	-0.2411E-03
3103	0.1493E-03
3121	-0.5202E-03
3122	0.0000E+00
3123	0.1948E-03
3091	-0.2856E-03
3092	0.0000E+00
3093	0.9250E-04

MODAL DISPLACEMENTS AT SECONDARY SYSTEM DOF

NODE	DX	DY	DZ	ROT-X	ROT-Y	ROT-Z
1	-0.1774E-08	-0.4302E-08	0.1439E-08	-0.4291E-09	-0.3932E-09	-0.1460E-08
2	0.9341E-03	-0.4374E-02	0.9600E-03	-0.1737E-03	-0.4044E-03	-0.1525E-02
3	0.5182E-02	-0.4748E-01	0.1376E-01	-0.1010E-03	-0.1305E-02	-0.3932E-02
4	0.5125E-02	-0.1680E+00	0.5867E-01	0.3815E-04	-0.1815E-02	-0.4366E-02
5	0.5096E-02	-0.2189E+00	0.8165E-01	0.1081E-03	-0.1559E-02	-0.3062E-02
9001	0.6475E-02	-0.2243E+00	0.8453E-01	0.1101E-03	-0.1449E-02	-0.2580E-02
9002	0.9644E-02	-0.2275E+00	0.8661E-01	0.1006E-03	-0.1346E-02	-0.2081E-02
6	0.1305E-01	-0.2285E+00	0.8746E-01	0.9265E-04	-0.1253E-02	-0.1585E-02
7	0.1626E-01	-0.2285E+00	0.8768E-01	0.8720E-04	-0.1150E-02	-0.1286E-02
9003	-0.6004E-03	-0.2285E+00	0.8305E-01	-0.4892E-03	0.5415E-03	0.1528E-02
9004	-0.4916E-01	-0.2285E+00	0.4994E-01	-0.1210E-02	0.2233E-02	0.4391E-03
9	0.8821E-02	-0.2284E+00	0.6310E-02	-0.9097E-03	0.3924E-02	-0.4115E-02
10	0.5826E-01	-0.2284E+00	0.1102E-02	-0.7075E-03	0.4217E-02	-0.5008E-02
9005	0.2146E+00	-0.2281E+00	-0.4155E-02	0.3555E-03	0.5654E-02	-0.5027E-02
9006	0.2914E+00	-0.2278E+00	0.2219E-01	0.1307E-02	0.7091E-02	0.9615E-03
11	0.1211E+00	-0.2274E+00	0.7741E-01	0.2245E-02	0.8527E-02	0.1025E-01
12	-0.7919E-02	-0.2273E+00	0.1035E+00	0.2625E-02	0.9022E-02	0.1379E-01
9007	-0.3469E-01	-0.2199E+00	0.1039E+00	0.2756E-02	0.9105E-02	0.1494E-01
9008	-0.5622E-01	-0.1984E+00	0.9523E-01	0.2866E-02	0.9189E-02	0.1612E-01
13	-0.6453E-01	-0.1671E+00	0.7936E-01	0.2970E-02	0.9293E-02	0.1717E-01
14	-0.6453E-01	-0.1386E+00	0.5364E-01	0.3123E-02	0.9376E-02	0.1785E-01
15	-0.6452E-01	-0.7649E-02	-0.3117E-02	0.3455E-02	0.9524E-02	0.1888E-01
16	-0.6450E-01	0.2638E+00	-0.1375E+00	0.4227E-02	0.9698E-02	0.1967E-01
17	-0.5383E-01	0.3112E+00	-0.1633E+00	0.4426E-02	0.9709E-02	0.1956E-01
18	-0.6277E-02	0.3638E+00	-0.2108E+00	0.4937E-02	0.9661E-02	0.1927E-01
19	0.6016E-01	0.4773E+00	-0.2773E+00	0.6064E-02	0.9460E-02	0.1845E-01
20	0.2273E+00	0.6369E+00	-0.4443E+00	0.1046E-01	0.8758E-02	0.1488E-01
21	0.1989E+00	0.6447E+00	-0.4230E+00	0.1252E-01	0.8556E-02	0.1301E-01
9009	-0.1731E+00	0.6446E+00	0.1427E+00	0.1358E-01	0.7706E-02	0.5248E-02
9010	-0.2240E+00	0.6441E+00	0.5236E+00	0.3845E-02	0.6857E-02	-0.2342E-02
22	-0.4682E-01	0.6434E+00	0.4079E+00	-0.9164E-02	0.6007E-02	-0.5263E-02
23	-0.3049E-02	0.6432E+00	0.3199E+00	-0.1146E-01	0.5827E-02	-0.4942E-02
24	0.6906E-01	0.6427E+00	0.1045E+00	-0.1436E-01	0.5480E-02	-0.3797E-02
9011	0.1457E+00	0.6416E+00	-0.3760E+00	-0.1260E-01	0.4772E-02	-0.6421E-03
9012	0.1126E+00	0.6403E+00	-0.6471E+00	-0.2648E-02	0.4065E-02	0.2449E-02
25	0.1192E-02	0.6388E+00	-0.5363E+00	0.8816E-02	0.3357E-02	0.3799E-02
26	-0.3482E-01	0.6383E+00	-0.4396E+00	0.1340E-01	0.3156E-02	0.3730E-02
9013	-0.1416E+00	0.6364E+00	0.4343E-01	0.1372E-01	0.2405E-02	0.1874E-02
9014	-0.1519E+00	0.6343E+00	0.3917E+00	0.3909E-02	0.1654E-02	-0.1337E-02
27	-0.5762E-01	0.6320E+00	0.2193E+00	-0.1462E-01	0.9035E-03	-0.3620E-02
28	-0.7342E-02	0.6311E+00	-0.2816E-01	-0.2284E-01	0.6226E-03	-0.3689E-02
29	0.6875E-01	0.6295E+00	-0.5757E+00	-0.2969E-01	0.1986E-03	-0.3550E-02
9015	0.1601E+00	0.6265E+00	-0.1514E+01	-0.1486E-01	-0.5928E-03	-0.9639E-03
9016	0.1316E+00	0.6232E+00	-0.1449E+01	0.1931E-01	-0.1364E-02	0.2368E-02
30	0.6903E-02	0.6197E+00	-0.1662E+00	0.4578E-01	-0.2178E-02	0.3772E-02
31	0.3123E-02	0.6196E+00	-0.1201E+00	0.4620E-01	-0.2197E-02	0.3767E-02
32	-0.8259E-02	0.5669E+00	0.5475E-02	0.4806E-01	-0.2255E-02	0.3724E-02
35	-0.1944E-01	0.4372E+00	0.5900E-01	0.4843E-01	-0.2303E-02	0.3671E-02
37	-0.3900E-01	0.4076E-01	0.5911E-01	0.4307E-01	-0.2288E-02	0.3503E-02
9017	-0.9878E-01	-0.7730E+00	0.5950E-01	0.8063E-02	-0.1127E-02	0.2860E-02
9018	-0.1014E+00	-0.5824E+00	0.5987E-01	-0.1736E-01	0.1038E-02	0.2217E-02
38	-0.3363E-01	0.1652E+00	0.6022E-01	-0.2513E-01	0.3008E-02	0.1574E-02
39	0.3781E-04	0.4186E+00	0.6033E-01	-0.2322E-01	0.3456E-02	0.1368E-02
9019	0.1325E+00	0.9734E+00	0.6065E-01	-9.7095E-02	0.4090E-02	0.6511E-03
40	0.2742E+00	0.8323E+00	0.6096E-01	0.1530E-01	0.4319E-02	0.1448E-04
41	0.4218E+00	0.1403E+00	0.6121E-01	0.3024E-01	0.6240E-02	-0.5703E-03
43	0.4469E+00	0.1872E-01	0.3449E-01	0.3339E-01	0.7804E-02	-0.9039E-03
44	0.4469E+00	0.1799E-01	0.2312E-01	0.3400E-01	0.8070E-02	-0.8579E-03
45	0.4469E+00	0.1446E-01	-0.8983E-02	0.3561E-01	0.8876E-02	-0.7754E-03
9020	0.4465E+00	-0.4074E-01	-0.3550E+00	0.4768E-01	0.1534E-01	-0.4421E-02
46	0.4461E+00	-0.3086E+00	-0.8955E+00	0.5975E-01	0.2302E-01	-0.1574E-01
47	0.4460E+00	-0.3582E+00	-0.9659E+00	0.6102E-01	0.2401E-01	-0.1740E-01
91	0.5042E+00	-0.3582E+00	-0.7835E+00	0.5991E-01	0.2684E-01	-0.2360E-01
92	0.9787E+00	-0.3583E+00	-0.1624E+00	0.4962E-01	0.4722E-01	-0.5573E-01
93	0.1424E+01	-0.5149E+00	0.7618E-02	0.3669E-01	0.5919E-01	-0.7075E-01
94	0.1621E+01	-0.6273E+00	0.7703E-02	0.3246E-01	0.6076E-01	-0.7600E-01
95	0.1928E+01	-0.7731E+00	0.7834E-02	0.2564E-01	0.5974E-01	-0.8410E-01
96	0.2219E+01	-0.8839E+00	0.7965E-02	0.1868E-01	0.5509E-01	-0.9219E-01
97	0.2232E+01	-0.8885E+00	0.7971E-02	0.1834E-01	0.5478E-01	-0.9259E-01
98	0.2040E+01	-0.9370E+00	-0.2556E-01	0.4009E-02	0.3921E-01	-0.1073E+00
100	0.1541E+01	-0.9370E+00	-0.3091E-01	-0.1252E-02	0.2918E-01	-0.1161E+00
101	0.1183E+01	-0.9370E+00	-0.2197E-01	-0.4390E-02	0.2249E-01	-0.1232E+00
102	0.6998E+00	-0.9369E+00	0.3991E-02	-0.9091E-02	0.1366E-01	-0.1357E+00
113	0.1321E+01	-0.9237E+00	-0.2198E-01	0.3435E-03	0.2285E-01	-0.1058E+00
114	0.1416E+01	-0.9309E+00	-0.2200E-01	0.2190E-02	0.2135E-01	-0.8950E-01
115	0.1502E+01	-0.9411E+00	-0.2201E-01	0.2126E-02	0.1891E-01	-0.7325E-01
116	0.1608E+01	-0.9487E+00	-0.2203E-01	-0.3947E-03	0.1523E-01	-0.4932E-01
118	0.1728E+01	-0.9447E+00	-0.2877E-01	-0.4648E-02	0.1093E-01	-0.3149E-01
9023	0.1651E+01	-0.9452E+00	-0.4379E+00	-0.2300E-01	-0.9157E-02	0.3320E-01
120	0.1203E+00	-0.9454E+00	-0.1334E+01	-0.4050E-01	-0.2925E-01	0.4789E-01
122	0.1473E+00	-0.8484E+00	-0.1429E+01	-0.4491E-01	-0.3129E-01	0.4358E-01
124	0.1222E-01	-0.6513E+00	-0.1429E+01	-0.4817E-01	-0.3187E-01	0.3844E-01
125	-0.5039E+00	-0.1267E+00	-0.1428E+01	-0.5500E-01	-0.3005E-01	0.2615E-01
127	-0.5181E+00	-0.4669E-03	-0.1300E+01	-0.5775E-01	-0.2871E-01	0.2144E-01
129	-0.1001E-01	-0.2754E-03	-0.3976E-01	-0.2689E-01	-0.1693E-01	0.4473E-02
9024	0.1576E-01	-0.1377E-03	0.1650E+00	0.4835E-02	-0.8464E-02	-0.6687E-03
130	0.2337E-08	-0.3011E-08	0.1472E-07	0.1719E-08	-0.4807E-09	-0.2656E-09
48	0.4456E+00	-0.3931E+00	-0.1033E+01	0.6479E-01	0.2075E-01	-0.6172E-02
49	0.4848E+00	-0.3777E+00	-0.1123E+01	0.7108E-01	0.1494E-01	0.1194E-01
50	0.4439E+00	-0.2737E+00	-0.1183E+01	0.7736E-01	0.8943E-02	0.2919E-01
51	0.4437E+00	-0.2259E+00	-0.1195E+01	0.7925E-01	0.7172E-02	0.3418E-01
52	0.4428E+00	0.1152E-01	-0.1216E+01	0.8616E-01	0.8333E-03	0.5171E-01
53	0.4386E+00	0.2053E+01	-0.9552E+00	0.1166E+00	-0.1999E-01	0.1111E+00
54	0.4324E+00	0.6946E+01	-0.1183E+00	0.1616E+00	-0.1936E-01	0.1557E+00
55	0.4322E+00	0.7063E+01	-0.1043E+00	0.1625E+00	-0.1892E-01	0.1562E+00
56	0.3725E+00	0.7031E+01	-0.4088E-01	0.1696E+00	-0.1233E-01	0.1634E+00
57	0.3456E+00	0.6647E+01	-0.4106E-01	0.1710E+00	-0.9483E-02	0.1662E+00
58	0.3309E+00	0.6303E+01	-0.4122E-01	0.1719E+00	-0.6787E-02	0.1687E+00
59	0.3172E+00	0.5785E+01	-0.4147E-01	0.1722E+00	-0.4024E-02	0.1725E+00

103	0.3171E+00	0.5165E+01	-0.5924E-01	0.1690E+00	-0.6325E-02	0.1561E+00
104	0.3170E+00	0.3763E+01	-0.1427E+00	0.1560E+00	-0.1010E-01	0.1663E+00
105	0.3170E+00	0.3227E+01	-0.1724E+00	0.1516E+00	-0.9511E-02	0.1925E+00
106	0.3169E+00	0.2608E+01	-0.1995E+00	0.1476E+00	-0.8584E-02	0.2184E+00
107	0.3166E+00	-0.7204E-01	-0.2883E+00	0.1315E+00	-0.7745E-02	0.2191E+00
109	0.3047E+00	-0.5861E+00	-0.3001E+00	0.1288E+00	-0.7605E-02	0.1965E+00
111	0.2846E+00	-0.9968E+00	-0.3001E+00	0.1117E+00	-0.5101E-02	0.1554E+00
112	0.2824E+00	-0.1148E+01	-0.3001E+00	0.1003E+00	0.4888E-03	0.1396E+00
60	0.3095E+00	0.5268E+01	-0.4170E-01	0.1712E+00	-0.2768E-03	0.1768E+00
61	0.3032E+00	0.4755E+01	-0.4194E-01	0.1688E+00	-0.3061E-02	0.1810E+00
62	0.3025E+00	0.4713E+01	-0.4196E-01	0.1685E+00	-0.3155E-02	0.1813E+00
63	0.2839E+00	0.3398E+01	-0.7063E-01	0.1562E+00	-0.1039E-01	0.1877E+00
64	0.2854E+00	0.1334E+01	-0.2075E+00	0.1322E+00	-0.1164E-01	0.1827E+00
65	0.2861E+00	0.4374E+00	-0.2605E+00	0.1214E+00	-0.8287E-02	0.1757E+00
131	-0.2764E+00	0.4375E+00	0.1331E+00	0.1213E+00	-0.8287E-02	0.1735E+00
132	-0.8410E+00	0.4375E+00	0.5266E+00	0.1215E+00	-0.8287E-02	0.1738E+00
66	0.2857E+00	-0.4121E+00	-0.2904E+00	0.1123E+00	-0.4020E-02	0.1612E+00
67	0.2853E+00	-0.1083E+01	-0.3003E+00	0.1046E+00	-0.9725E-03	0.1500E+00
68	0.2851E+00	-0.1518E+01	-0.3001E+00	0.9923E-01	0.8543E-03	0.1383E+00
69	0.2848E+00	-0.1916E+01	-0.2945E+00	0.9333E-01	0.2542E-02	0.1244E+00
70	0.2846E+00	-0.2165E+01	-0.2873E+00	0.8890E-01	0.3622E-02	0.1127E+00
71	0.2841E+00	-0.2680E+01	-0.2636E+00	0.7905E-01	0.5446E-02	0.8255E-01
133	0.1530E-01	-0.2680E+01	-0.6215E-02	0.7918E-01	0.5446E-02	0.8269E-01
134	-0.2560E+00	-0.2681E+01	0.2517E+00	0.7926E-01	0.5446E-02	0.8278E-01
72	0.2838E+00	-0.3009E+01	-0.2328E+00	0.6840E-01	0.6654E-02	0.4952E-01
73	0.2822E+00	-0.2624E+01	-0.6786E-01	0.2104E-01	0.6499E-02	-0.7817E-01
74	0.2820E+00	-0.2412E+01	-0.5273E-01	0.1572E-01	0.6155E-02	-0.9039E-01
75	0.2817E+00	-0.1900E+01	-0.2271E-01	0.5068E-02	0.6577E-02	-0.1130E+00
76	0.2813E+00	-0.1281E+01	0.1314E-01	-0.5584E-02	0.8476E-02	-0.1327E+00
77	0.2811E+00	-0.9368E+00	0.3552E-01	-0.1090E-01	0.9976E-02	-0.1412E+00
78	0.2811E+00	-0.3136E+00	0.6622E-01	-0.2508E-01	0.5605E-02	-0.1678E+00
9021	0.2808E+00	0.6359E+01	-0.1070E+00	-0.1264E+00	-0.1414E-01	-0.2719E+00
79	0.2804E+00	0.1411E+02	-0.5609E+00	-0.2276E+00	-0.1416E-01	-0.2524E+00
80	0.2803E+00	0.1671E+02	-0.6917E+00	-0.2661E+00	-0.9367E-02	-0.2256E+00
81	0.2802E+00	0.1731E+02	-0.7150E+00	-0.2756E+00	-0.7842E-02	-0.2188E+00
82	0.2938E+00	0.1700E+02	-0.7356E+00	-0.3024E+00	-0.1315E-02	-0.1945E+00
9022	0.1912E+00	0.8812E+01	-0.7359E+00	-0.3191E+00	0.6933E-02	-0.1188E+00
83	0.5276E-01	0.1642E+01	-0.7360E+00	-0.2140E+00	0.1284E-02	-0.4313E-01
84	0.5097E-01	0.1161E+01	-0.7360E+00	-0.1970E+00	0.5046E-04	-0.3624E-01
85	0.5152E-01	0.8411E+00	-0.7360E+00	-0.1841E+00	-0.9057E-03	-0.3131E-01
86	0.1004E-01	-0.8393E-02	-0.2280E+00	-0.8509E-01	-0.4517E-02	-0.6104E-02
87	0.1495E-07	0.1570E-06	-0.3996E-09	-0.6224E-07	0.4858E-08	-0.1061E-08

COUPLED MODE SHAPES (FOR SECONDARY MODE) MODE 17
FREQUENCY (HZ.) = 13.43931

MODAL DISP AT PRIMARY SYSTEM CONNETING DOF

DOF #	DISPLACEMENT
3041	-0.4794E-05
3042	0.0000E+00
3043	-0.2735E-04
3061	-0.1079E-04
3063	-0.9150E-04
3072	0.0000E+00
3081	-0.1620E-04
3103	-0.3308E-03
3121	-0.2854E-04
3122	0.0000E+00
3123	-0.4317E-03
3091	-0.1824E-04
3092	0.0000E+00
3093	-0.2050E-03

MODAL DISPLACEMENTS AT SECONDARY SYSTEM DOF

NODE	DX	DY	DZ	ROT-X	ROT-Y	ROT-Z
1	0.1183E-07	0.2842E-07	-0.8190E-08	0.2762E-08	0.1899E-08	0.9610E-08
2	-0.4528E-02	0.2864E-01	-0.4689E-02	0.1068E-02	0.2001E-02	0.1004E-01
3	-0.2567E-01	0.3116E+00	-0.6960E-01	0.3816E-03	0.6677E-02	0.2588E-01
4	-0.2549E-01	0.1104E+01	-0.2970E+00	-0.9150E-03	0.8946E-02	0.2865E-01
5	-0.2529E-01	0.1437E+01	-0.4070E+00	-0.1567E-02	0.7145E-02	0.2004E-01
9001	-0.3431E-01	0.1472E+01	-0.4206E+00	-0.1810E-02	0.6429E-02	0.1686E-01
9002	-0.5501E-01	0.1493E+01	-0.4313E+00	-0.1586E-02	0.5756E-02	0.1359E-01
6	-0.7726E-01	0.1500E+01	-0.4371E+00	-0.1582E-02	0.5167E-02	0.1033E-01
7	-0.9811E-01	0.1500E+01	-0.4407E+00	-0.1580E-02	0.4497E-02	0.8370E-02
9003	0.1414E-01	0.1500E+01	-0.4576E+00	0.1667E-02	-0.6475E-02	-0.1001E-01
9004	0.3293E+00	0.1500E+01	-0.2985E+00	0.6537E-02	-0.1745E-01	-0.2706E-02
9	-0.5868E-01	0.1499E+01	-0.4044E-01	0.6105E-02	-0.2842E-01	0.2714E-01
10	-0.2520E+00	0.1499E+01	-0.4108E-02	0.5201E-02	-0.3032E-01	0.3295E-01
9005	-0.1406E+01	0.1497E+01	0.6989E-01	-0.7805E-03	-0.3964E-01	0.3264E-01
9006	-0.1892E+01	0.1495E+01	-0.6720E-01	-0.8171E-02	-0.4896E-01	-0.7038E-02
11	-0.7543E+00	0.1492E+01	-0.4549E+00	-0.1695E-01	-0.5828E-01	-0.6757E-01
12	0.9382E-01	0.1491E+01	-0.6559E+00	-0.2059E-01	-0.6148E-01	-0.9041E-01
9007	0.2706E+00	0.1443E+01	-0.6645E+00	-0.2184E-01	-0.6199E-01	-0.9810E-01
9008	0.4102E+00	0.1303E+01	-0.6097E+00	-0.2291E-01	-0.6248E-01	-0.1054E+00
13	0.4645E+00	0.1098E+01	-0.5036E+00	-0.2389E-01	-0.6312E-01	-0.1120E+00
14	0.4645E+00	0.7816E+00	-0.3289E+00	-0.2530E-01	-0.6364E-01	-0.1163E+00
15	0.4644E+00	0.6055E-01	0.5604E-01	-0.2837E-01	-0.6455E-01	-0.1223E+00
16	0.4643E+00	-0.1687E+01	0.9652E+00	-0.3551E-01	-0.6545E-01	-0.1260E+00
17	0.3924E+00	-0.1980E+01	0.1139E+01	-0.3731E-01	-0.6541E-01	-0.1249E+00
18	0.7236E-01	-0.2397E+01	0.1459E+01	-0.4139E-01	-0.6494E-01	-0.1226E+00
19	-0.3736E+00	-0.2917E+01	0.1905E+01	-0.4954E-01	-0.6341E-01	-0.1171E+00
20	-0.1492E+01	-0.3708E+01	0.3022E+01	-0.7898E-01	-0.5856E-01	-0.9447E-01
2.	-0.1319E+01	-0.3724E+01	0.2847E+01	-0.9218E-01	-0.5727E-01	-0.8292E-01
9009	0.1074E+01	-0.3723E+01	-0.1188E+01	-0.5388E-01	-0.5222E-01	-0.3428E-01
9010	0.1428E+01	-0.3720E+01	-0.3695E+01	-0.2079E-01	-0.4716E-01	0.1449E-01

22	0.3005E+00	-0.3716E+01	-0.2630E+01	0.6932E-01	-0.4211E-01	0.3378E-01
23	0.1919E-01	-0.3715E+01	-0.1975E+01	0.8414E-01	-0.4104E-01	0.3181E-01
24	-0.4461E+00	-0.3712E+01	-0.4287E+00	0.1015E+00	-0.3897E-01	0.2454E-01
9011	-0.9408E+00	-0.3705E+01	0.2857E+01	0.8247E-01	-0.3476E-01	0.4036E-02
9012	-0.7188E+00	-0.3697E+01	0.4480E+01	0.8621E-02	-0.3056E-01	-0.1617E-01
25	0.1170E-01	-0.3688E+01	0.3361E+01	-0.6993E-01	-0.2635E-01	-0.2473E-01
26	0.2455E+00	-0.3685E+01	0.2634E+01	-0.8634E-01	-0.2515E-01	-0.2414E-01
9013	0.9251E+00	-0.3674E+01	-0.8389E+00	-0.9418E-01	-0.1068E-01	-0.1147E-01
9014	0.9605E+00	-0.3661E+01	-0.3076E+01	-0.1897E-01	-0.1622E-01	0.9624E-02
27	0.3240E+00	-0.3647E+01	-0.1592E+01	0.1073E+00	-0.1175E-01	0.2375E-01
28	-0.2382E-02	-0.3641E+01	0.1770E+00	0.1600E+00	-0.1008E-01	0.2498E-01
29	-0.4826E+00	-0.3632E+01	0.3934E+01	0.2011E+00	-0.7560E-02	0.2194E-01
9015	-0.1012E+01	-0.3613E+01	0.1019E+02	0.9703E-01	-0.2852E-02	0.4112E-02
9016	-0.7445E+00	-0.3593E+01	0.9738E+01	-0.1249E+00	0.1855E-02	-0.1740E-01
30	0.1273E+00	-0.3572E+01	0.1756E+01	-0.2741E+00	0.6563E-02	-0.2581E-01
31	0.1532E+00	-0.3571E+01	0.1480E+01	-0.2758E+00	0.6689E-02	-0.2576E-01
32	0.2288E+00	-0.3560E+01	0.7361E+00	-0.2822E+00	0.7024E-02	-0.2540E-01
35	0.2757E+00	-0.2505E+01	0.4235E+00	-0.2791E+00	0.7305E-02	-0.2501E-01
37	0.3382E+00	-0.2589E+00	0.4226E+00	-0.2383E+00	0.7250E-02	-0.2380E-01
9017	0.5076E+00	0.3619E+01	0.4189E+00	-0.1321E-01	0.2097E-02	-0.1917E-01
9018	0.4398E+00	0.1559E+01	0.4151E+00	0.1205E+00	-0.6303E-02	-0.1455E-01
38	0.1277E+00	-0.2883E+01	0.4111E+00	0.1306E+00	-0.1203E-01	-0.9920E-02
39	-0.1296E-02	-0.4129E+01	0.4098E+00	0.1069E+00	-0.1267E-01	-0.8438E-02
9019	-0.3835E+00	-0.5963E+01	0.4054E+00	-0.4227E-02	-0.7705E-02	-0.3569E-02
40	-0.4246E+00	-0.3999E+01	0.4008E+00	-0.1011E+00	0.6398E-02	0.1299E-02
41	-0.1423E-01	-0.5549E+00	0.3967E+00	-0.1182E+00	0.2156E-01	0.5506E-02
43	0.7422E-01	-0.1040E+00	0.3035E+00	-0.1088E+00	0.2464E-01	0.4055E-02
44	0.7422E-01	-0.9792E-01	0.2672E+00	-0.1062E+00	0.2426E-01	0.3570E-02
45	0.7421E-01	-0.8736E-01	0.1764E+00	-0.1002E+00	0.2149E-01	0.2102E-02
9020	0.7416E-01	-0.1319E+00	-0.9092E-01	-0.5531E-01	0.6269E-03	-0.3594E-02
46	0.7410E-01	-0.2126E+00	-0.3958E-01	-0.1045E-01	-0.7053E-03	-0.6369E-03
47	0.7409E-01	-0.2135E+00	-0.3863E-01	-0.5732E-02	0.3132E-03	0.1384E-03
91	0.7488E-01	-0.2136E+00	-0.5465E-01	-0.4458E-02	0.1067E-02	-0.1069E-02
92	0.1264E+00	-0.2140E+00	-0.5963E-01	0.2790E-02	0.6491E-02	-0.6965E-02
93	0.1894E+00	-0.2356E+00	-0.4207E-01	0.6785E-02	0.9596E-02	-0.9316E-02
94	0.2220E+00	-0.2583E+00	-0.4200E-01	0.7298E-02	0.1013E-01	-0.1000E-01
95	0.2740E+00	-0.2969E+00	-0.4189E-01	0.7198E-02	0.1018E-01	-0.1106E-01
96	0.3219E+00	-0.3313E+00	-0.4178E-01	0.6106E-02	0.9358E-02	-0.1211E-01
97	0.3262E+00	-0.3329E+00	-0.4177E-01	0.6028E-02	0.9296E-02	-0.1216E-01
98	0.3072E+00	-0.3506E+00	-0.5486E-01	0.2093E-02	0.6144E-02	-0.1441E-01
100	0.2396E+00	-0.3507E+00	-0.6069E-01	0.8246E-03	0.4004E-02	-0.1597E-01
101	0.1901E+00	-0.3508E+00	-0.6196E-01	0.2871E-03	0.2577E-02	-0.1734E-01
102	0.1211E+00	-0.3509E+00	-0.6094E-01	-0.5195E-03	0.6869E-03	-0.1973E-01
113	0.2063E+00	-0.3583E+00	-0.6198E-01	0.2367E-02	0.2757E-02	-0.1488E-01
114	0.2179E+00	-0.3708E+00	-0.6199E-01	0.3134E-02	0.2612E-02	-0.1259E-01
115	0.2284E+00	-0.3844E+00	-0.6200E-01	0.3013E-02	0.2301E-02	-0.1029E-01
116	0.2412E+00	-0.4001E+00	-0.6202E-01	0.1663E-02	0.1800E-02	-0.6918E-02
118	0.2572E+00	-0.4022E+00	-0.6131E-01	-0.5199E-03	0.1190E-02	-0.4681E-02
9023	0.2436E+00	-0.4024E+00	-0.2126E+00	-0.9423E-02	-0.1683E-02	0.4868E-02
120	0.4861E-01	-0.4026E+00	-0.5875E+00	-0.1707E-01	-0.4556E-02	0.7021E-02
122	0.2265E-01	-0.3616E+00	-0.6275E+00	-0.1896E-01	-0.4845E-02	0.6394E-02
124	0.1776E-02	-0.2783E+00	-0.6275E+00	-0.2041E-01	-0.4923E-02	0.5647E-02
125	-0.4700E-01	-0.5460E-01	-0.6274E+00	-0.2364E-01	-0.4634E-02	0.3861E-02
127	-0.4950E-01	-0.1472E-03	-0.5719E+00	-0.2508E-01	-0.4423E-02	0.3180E-02
129	-0.3062E-02	-0.8679E-04	-0.1787E-01	-0.1192E-01	-0.2608E-02	0.7154E-03
9024	0.1767E-02	-0.4340E-04	0.4642E-01	0.2133E-02	-0.1304E-02	-0.4855E-04
130	0.3265E-09	-0.9489E-09	0.6517E-08	0.7604E-09	-0.7405E-10	-0.3179E-10
48	0.7399E-01	-0.2077E+00	-0.3961E-01	-0.4427E-02	0.3212E-03	0.3366E-02
49	0.7382E-01	-0.1781E+00	-0.4121E-01	-0.2251E-02	0.2987E-03	0.3007E-02
50	0.7364E-01	-0.1277E+00	-0.4260E-01	-0.7448E-04	0.2436E-03	0.1167E-01
51	0.7359E-01	-0.1092E+00	-0.4295E-01	0.5783E-03	0.2231E-03	0.1257E-01
52	0.7340E-01	-0.3177E-01	-0.4396E-01	0.2870E-02	0.1342E-03	0.1507E-01
53	0.7252E-01	0.4225E+00	-0.4152E-01	0.1352E-01	-0.3523E-03	0.2186E-01
54	0.7120E-01	0.1340E+01	-0.1761E-01	0.2908E-01	-0.9044E-03	0.2932E-01
55	0.7117E-01	0.1362E+01	-0.1698E-01	0.2941E-01	-0.9171E-03	0.2947E-01
56	0.6659E-01	0.1358E+01	-0.1310E-01	0.3197E-01	-0.9871E-03	0.3152E-01
57	0.6422E-01	0.1285E+01	-0.1314E-01	0.3251E-01	-0.6885E-03	0.3235E-01
58	0.6340E-01	0.1220E+01	-0.1317E-01	0.3287E-01	-0.3695E-03	0.3304E-01
59	0.6309E-01	0.1120E+01	-0.1322E-01	0.3314E-01	-0.8881E-04	0.3419E-01
103	0.6309E-01	0.9968E+00	-0.1435E-01	0.3261E-01	-0.7503E-03	0.3142E-01
104	0.6310E-01	0.7078E+00	-0.2887E-01	0.3026E-01	-0.1970E-02	0.3464E-01
105	0.6310E-01	0.5964E+00	-0.3472E-01	0.2953E-01	-0.1882E-02	0.3992E-01
106	0.6309E-01	0.4684E+00	-0.4007E-01	0.2878E-01	-0.1675E-02	0.4506E-01
107	0.6307E-01	-0.6171E-01	-0.5504E-01	0.2589E-01	-0.9911E-03	0.4489E-01
109	0.6168E-01	-0.1855E+00	-0.5647E-01	0.2542E-01	-0.8410E-03	0.4028E-01
111	0.5972E-01	-0.2667E+00	-0.5647E-01	0.2213E-01	-0.2013E-03	0.3216E-01
112	0.5971E-01	-0.2966E+00	-0.5647E-01	0.1994E-01	0.2378E-03	0.2875E-01
60	0.6329E-01	0.1020E+01	-0.1326E-01	0.3316E-01	-0.3417E-04	0.3538E-01
61	0.6329E-01	0.9206E+00	-0.1331E-01	0.3285E-01	-0.2145E-03	0.3656E-01
62	0.6326E-01	0.9124E+00	-0.1331E-01	0.3280E-01	-0.2400E-03	0.3666E-01
63	0.6066E-01	0.6489E+00	-0.1790E-01	0.3062E-01	-0.1764E-02	0.3866E-01
64	0.6048E-01	0.2211E+00	-0.4180E-01	0.2604E-01	-0.2037E-02	0.3800E-01
65	0.6098E-01	0.3443E-01	-0.5097E-01	0.2395E-01	-0.1394E-02	0.3609E-01
131	-0.5594E-01	0.3443E-01	0.2673E-01	0.2395E-01	-0.1394E-02	0.3607E-01
132	-0.1735E+00	0.3444E-01	0.1048E+00	0.2399E-01	-0.1394E-02	0.3613E-01
66	0.6087E-01	-0.1418E+00	-0.5574E-01	0.2223E-01	-0.5919E-03	0.3179E-01
67	0.6077E-01	-0.2805E+00	-0.5693E-01	0.2075E-01	-0.1856E-04	0.3097E-01
68	0.6070E-01	-0.3703E+00	-0.5647E-01	0.1973E-01	0.2806E-03	0.2850E-01
69	0.6062E-01	-0.4521E+00	-0.5511E-01	0.1860E-01	0.5548E-03	0.2558E-01
70	0.6057E-01	-0.5073E+00	-0.5361E-01	0.1776E-01	0.7200E-03	0.2312E-01
71	0.6045E-01	-0.6087E+00	-0.4919E-01	0.1588E-01	0.9619E-03	0.1684E-01
133	0.5565E-02	-0.6087E+00	0.2474E-02	0.1590E-01	0.9619E-03	0.1688E-01
134	-0.4940E-01	-0.6089E+00	0.5427E-01	0.1592E-01	0.9619E-03	0.1689E-01
72	0.6036E-01	-0.6754E+00	-0.4399E-01	0.1391E-01	0.1019E-02	0.1006E-01
73	0.5995E-01	-0.6180E+00	-0.3747E-01	0.5167E-02	-0.1165E-02	-0.1306E-01
74	0.5990E-01	-0.5827E+00	-0.4124E-01	0.4184E-02	-0.1526E-02	-0.1490E-01
75	0.5981E-01	-0.4994E+00	-0.5012E-01	0.2217E-02	-0.1595E-02	-0.1800E-01
76	0.5970E-01	-0.4026E+00	-0.5718E-01	0.2505E-03	-0.8087E-03	-0.2016E-01
77	0.5965E-01	-0.3509E+00	-0.5870E-01	-0.7320E-03	-0.1007E-03	-0.2083E-01
78	0.5966E-01	-0.2594E+00	-0.5962E-01	-0.2659E-02	-0.3306E-03	-0.2455E-01
9021	0.5965E-01	0.7091E+00	-0.8258E-01	-0.1643E-01	-0.9732E-03	-0.3952E-01

79	0.5963E-01	0.1842E+01	-0.1029E+00	-0.3019E-01	-0.2758E-03	-0.3713E-01
80	0.5962E-01	0.2226E+01	-0.1014E+00	-0.3542E-01	0.1988E-03	-0.3333E-01
81	0.5962E-01	0.2314E+01	-0.1027E+00	-0.3671E-01	0.3208E-03	-0.3236E-01
82	0.5725E-01	0.2284E+01	-0.1008E+00	-0.4039E-01	0.7867E-03	-0.2881E-01
9022	0.2942E-01	0.1184E+01	-0.1006E+00	-0.4289E-01	0.1159E-02	-0.1764E-01
83	0.8979E-02	0.2211E+00	-0.1008E+00	-0.2895E-01	0.1766E-03	-0.6469E-02
84	0.8731E-02	0.1559E+00	-0.1008E+00	-0.2668E-01	0.1518E-04	-0.5442E-02
85	0.8792E-02	0.1126E+00	-0.1008E+00	-0.2495E-01	-0.1078E-03	-0.4715E-02
86	0.1804E-02	-0.1584E-02	-0.3142E-01	-0.1159E-01	-0.5479E-03	-0.9965E-03
87	0.1517E-08	0.2138E-07	-0.1674E-08	-0.8530E-08	0.7572E-09	-0.2676E-09

COUPLED MODE SHAPES (FOR SECONDARY MODE) MODE 18
FREQUENCY (HZ.) = 14.7976

MODAL DISP AT PRIMARY SYSTEM CONNETING DOF

DOF #	DISPLACEMENT
3041	0.3972E-05
3042	0.0000E+00
3043	-0.8647E-05
3061	0.1458E-05
3063	-0.2234E-04
3072	0.0000E+00
3081	-0.7793E-05
3103	-0.8041E-04
3121	-0.4364E-04
3122	0.0000E+00
3123	-0.1049E-03
3091	-0.1321E-04
3092	0.0000E+00
3093	-0.4982E-04

MODAL DISPLACEMENTS AT SECONDARY SYSTEM DOF

NODE	DX	DY	DZ	ROT-X	ROT-Y	ROT-Z
1	-0.5111E-08	-0.3821E-08	0.1157E-07	-0.6438E-09	-0.3991E-08	-0.7277E-09
2	0.9376E-02	-0.3152E-02	0.9511E-02	-0.5449E-03	-0.3869E-02	-0.6549E-03
3	0.4832E-01	-0.2431E-01	0.1236E+00	-0.1380E-02	-0.1121E-01	-0.1319E-02
4	0.4815E-01	-0.4313E-01	0.4977E+00	-0.2620E-02	-0.1489E-01	0.5958E-03
5	0.4806E-01	-0.2043E-01	0.6660E+00	-0.3243E-02	-0.1282E-01	0.2993E-02
9001	0.4628E-01	-0.1413E-01	0.7077E+00	-0.3404E-02	-0.1197E-01	0.3773E-02
9002	0.4049E-01	-0.8460E-02	0.7188E+00	-0.3675E-02	-0.1115E-01	0.4553E-02
6	0.3118E-01	-0.6042E-02	0.7172E+00	-0.3952E-02	-0.1044E-01	0.5297E-02
7	0.1869E-01	-0.6051E-02	0.7082E+00	-0.4123E-02	-0.9656E-02	0.5723E-02
9003	-0.2395E+00	-0.6197E-02	0.4865E+00	-0.8121E-02	0.3106E-02	0.6199E-02
9004	-0.3221E+00	-0.6339E-02	0.1546E+00	-0.8467E-02	0.1587E-01	-0.2904E-02
9	0.1451E-01	-0.6479E-02	-0.4586E-02	0.1974E-02	0.2863E-01	-0.1516E-01
10	0.1189E+00	-0.6503E-02	0.1736E-01	0.5051E-02	0.3084E-01	-0.1715E-01
9005	0.6940E+00	-0.6616E-02	0.3725E+00	0.1586E-01	0.4168E-01	-0.1714E-01
9006	0.1092E+01	-0.6727E-02	0.9288E+00	0.1881E-01	0.5252E-01	-0.7496E-02
11	0.1188E+01	-0.6835E-02	0.1559E+01	0.2276E-01	0.6316E-01	-0.2666E-03
12	0.1192E+01	-0.6872E-02	0.1821E+01	0.2665E-01	0.6709E-01	-0.8565E-03
9007	0.1194E+01	-0.7486E-02	0.1838E+01	0.2803E-01	0.6765E-01	-0.1514E-02
9008	0.1196E+01	-0.1009E-01	0.1785E+01	0.2994E-01	0.6810E-01	-0.2308E-02
13	0.1197E+01	-0.1522E-01	0.1672E+01	0.3143E-01	0.6860E-01	-0.3166E-02
14	0.1197E+01	-0.2488E-01	0.1482E+01	0.3353E-01	0.6891E-01	-0.3808E-02
15	0.1197E+01	-0.5177E-01	0.1068E+01	0.3810E-01	0.6866E-01	-0.5096E-02
16	0.1196E+01	-0.1175E+00	0.1448E+00	0.4873E-01	0.6157E-01	-0.1749E-02
17	0.1261E+01	-0.1732E+00	-0.1273E-01	0.5065E-01	0.5663E-01	0.1900E-02
18	0.1522E+01	-0.4048E+00	-0.2747E+00	0.5459E-01	0.5017E-01	0.1027E-01
19	0.1839E+01	-0.6730E+00	-0.5923E+00	0.5659E-01	0.4145E-01	0.2569E-01
20	0.2436E+01	-0.6572E+00	-0.1192E+01	0.4313E-01	0.2727E-01	0.8523E-01
21	0.2117E+01	-0.5054E+00	-0.1132E+01	0.2851E-01	0.2326E-01	0.1120E+00
9009	-0.3088E+01	-0.5068E+00	-0.7090E+00	-0.3753E-03	0.1447E-01	0.1163E+00
9010	-0.5384E+01	-0.5080E+00	-0.7579E+00	0.1466E-02	0.5687E-02	-0.1798E-01
22	-0.1422E+01	-0.5089E+00	-0.8640E+00	0.1300E-01	-0.3107E-02	-0.1694E+00
23	0.1229E+00	-0.5091E+00	-0.3441E+00	0.1511E-01	-0.4965E-03	-0.1932E+00
24	0.3503E+01	-0.5093E+00	-0.7369E+01	0.1737E-01	-0.8552E-02	-0.2096E+00
9011	0.9236E+01	-0.5095E+00	0.4658E+00	0.1276E-01	-0.1587E-01	-0.1041E+00
9012	0.9408E+01	-0.5096E+00	0.6820E+00	-0.6598E-03	-0.2319E-01	0.9700E-01
25	0.3402E+01	-0.5094E+00	0.4294E+00	-0.1337E-01	-0.3050E-01	0.2392E+00
26	0.1045E+01	-0.5093E+00	0.2905E+00	-0.1565E-01	-0.3259E-01	0.2532E+00
9013	-0.7182E+01	-0.5089E+00	-0.2922E+00	-0.1450E-01	-0.4035E-01	0.1754E+00
9014	-0.9794E+01	-0.5082E+00	-0.5855E+00	-0.3053E-03	-0.4812E-01	-0.3925E-01
27	-0.4762E+01	-0.5073E+00	-0.2634E+00	0.1825E-01	-0.5588E-01	-0.2227E+00
28	-0.1567E+01	-0.5069E+00	0.2119E-01	0.2457E-01	-0.5878E-01	-0.2538E+00
29	0.3555E+01	-0.5062E+00	0.5674E+00	0.2795E-01	-0.6317E-01	-0.2449E+00
9015	0.1001E+02	-0.5047E+00	0.1354E+01	0.9156E-02	-0.7135E-01	-0.6883E-01
9016	0.7846E+01	-0.5029E+00	0.1086E+01	-0.2311E-01	-0.7954E-01	0.1767E+00
30	-0.1504E+01	-0.5008E+00	-0.1903E+00	-0.4056E-01	-0.8772E-01	0.2848E+00
31	-0.1790E+01	-0.5008E+00	-0.2310E+00	-0.4065E-01	-0.8794E-01	0.2845E+00
32	-0.2640E+01	-0.4556E+00	-0.3396E+00	-0.4082E-01	-0.8810E-01	0.2819E+00
35	-0.3182E+01	-0.3474E+00	-0.3845E+00	-0.4001E-01	-0.8677E-01	0.2785E+00
37	-0.3891E+01	-0.2402E-01	-0.3846E+00	-0.3517E-01	-0.7863E-01	0.2689E+00
9017	-0.5370E+01	0.6560E+00	-0.3848E+00	-0.7085E-02	-0.4257E-02	0.2322E+00
9018	-0.4082E+01	0.5015E+00	-0.3849E+00	0.1466E-01	5.7815E-01	0.1955E+00
38	-0.9783E+00	-0.1340E+00	-0.3848E+00	0.2131E-01	0.9715E-01	0.1588E+00
39	-0.3133E-01	-0.3481E+00	-0.3847E+00	0.1952E-01	0.8280E-01	0.1470E+00
9019	0.1686E+01	-0.8066E+00	-0.3843E+00	0.5671E-02	0.1800E-01	0.1084E+00
40	0.1357E+01	-0.7022E+00	-0.3836E+00	-0.1107E-01	-0.3222E-01	0.6973E-01
41	0.1404E+00	-0.2661E+00	-0.3830E+00	-0.1785E-01	-0.4361E-01	0.3633E-01
43	-0.1883E-01	-0.6192E-01	-0.2285E+00	-0.1692E-01	-0.3908E-01	0.2806E-01
44	-0.1889E-01	-0.2239E-01	-0.1727E+00	-0.1687E-01	-0.3825E-01	0.2670E-01
45	-0.1902E-01	0.7243E-01	-0.3097E-01	-0.1673E-01	-0.3572E-01	0.2314E-01
9020	-0.2005E-01	0.4025E+00	0.7032E+00	-0.1572E-01	-0.1612E-01	0.1613E-02
46	-0.2108E-01	0.2679E+00	0.9421E+00	-0.1471E-01	-0.2296E-02	-0.8703E-02
47	-0.2118E-01	0.2411E+00	0.9474E+00	-0.1460E-01	-0.1419E-02	-0.9006E-02

91	0.5484E-02	0.2411E-00	0.9033E+00	-0.1454E-01	-0.1403E-02	-0.8669E-02
92	0.9250E-01	0.2412E+00	0.7551E+00	-0.1024E-01	-0.1291E-02	-0.7197E-02
93	0.1142E+00	0.2594E+00	0.7271E+00	-0.1167E-02	-0.1054E-02	-0.6986E-02
94	0.1110E+00	0.2583E+00	0.7270E+00	0.1962E-02	-0.7898E-03	-0.6965E-02
95	0.1083E+00	0.2362E+00	0.7267E+00	0.7014E-02	-0.9392E-04	-0.6932E-02
96	0.1101E+00	0.1881E+00	0.7264E+00	0.1226E-01	0.9917E-03	-0.6899E-02
97	0.1103E+00	0.1850E+00	0.7264E+00	0.1252E-01	0.1057E-02	-0.6897E-02
98	0.9315E-01	0.1225E+00	0.6525E+00	0.2285E-01	0.3880E-02	-0.6303E-02
100	0.6544E-01	0.1225E+00	0.5417E+00	0.2545E-01	0.5805E-02	-0.5810E-02
101	0.4854E-01	0.1225E+00	0.4629E+00	0.2625E-01	0.7088E-02	-0.5283E-02
102	0.2977E-01	0.1225E+00	0.3625E+00	0.2631E-01	0.8554E-02	-0.4510E-02
113	0.9213E-01	-0.3116E-01	0.4630E+00	0.2432E-01	0.7442E-02	-0.4254E-02
114	0.1240E+00	-0.1297E+00	0.4630E+00	0.2185E-01	0.7487E-02	-0.3296E-02
115	0.1556E+00	-0.2164E+00	0.4630E+00	0.1879E-01	0.7345E-02	-0.2338E-02
116	0.2005E+00	-0.3179E+00	0.4630E+00	0.1345E-01	0.6986E-02	-0.9275E-03
118	0.2166E+00	-0.3435E+00	0.485CE+00	0.7654E-02	0.6523E-02	0.3850E-04
9023	0.1505E+00	-0.3437E+00	0.3578E+00	-0.1473E-01	0.3786E-02	0.4309E-02
120	0.6685E-02	-0.3437E+00	-0.2064E+00	-0.2116E-01	0.1048E-02	0.4725E-02
122	-0.1615E-02	-0.2976E+00	-0.2531E+00	-0.2007E-01	0.7395E-03	0.4217E-02
124	0.1048E-02	-0.2145E+00	-0.2531E+00	-0.1916E-01	0.5666E-03	0.3621E-02
125	0.5773E-02	-0.3445E-01	-0.2532E+00	-0.1606E-01	0.4011E-03	0.2196E-02
127	0.1074E-01	-0.3464E-03	-0.2206E+00	-0.1360E-01	0.3222E-03	0.1626E-02
129	0.2341E-01	-0.2043E-03	-0.2319E-02	-0.9552E-02	0.1900E-03	-0.4232E-03
9024	0.9810E-02	-0.1022E-03	0.1537E-01	0.7558E-03	0.9499E-04	-0.8339E-03
130	0.5120E-09	-0.2234E-08	0.2045E-08	0.2450E-09	0.5395E-11	-0.1085E-09
48	-0.2126E-01	0.2123E+00	0.9508E+00	-0.1420E-01	-0.5065E-03	-0.9819E-02
49	-0.2138E-01	0.1605E+00	0.9489E+00	-0.1353E-01	0.1617E-02	-0.1053E-01
50	-0.2151E-01	0.1071E+00	0.9346E+00	-0.1286E-01	0.4151E-02	-0.1036E-01
51	-0.2154E-01	0.9150E-01	0.9278E+00	-0.1265E-01	0.4926E-02	-0.1013E-01
52	-0.2168E-01	0.3873E-01	0.8929E+00	-0.1192E-01	0.7779E-02	-0.8575E-02
53	-0.2227E-01	-0.7147E-01	0.5807E+00	-0.8662E-02	0.1659E-01	-0.1247E-02
54	-0.2313E-01	-0.3509E-01	0.1782E-01	-0.3863E-02	0.1010E-01	0.1547E-02
55	-0.2314E-01	-0.3392E-01	0.1040E-01	-0.3763E-02	0.9676E-02	0.1498E-02
56	-0.1428E-02	-0.1775E-01	-0.1750E-01	-0.2603E-02	0.3920E-02	0.5770E-03
57	0.6001E-02	-0.1217E-01	-0.1751E-01	-0.2278E-02	0.2951E-02	0.2840E-03
58	0.1095E-01	-0.7863E-02	-0.1751E-01	-0.1952E-02	0.2202E-02	0.2345E-04
59	0.1580E-01	-0.2711E-02	-0.1751E-01	-0.1398E-02	0.1249E-02	-0.5673E-03
103	0.1582E-01	0.1352E-02	-0.1426E-01	-0.5285E-03	0.9311E-04	-0.2608E-02
104	0.1590E-01	0.5260E-01	-0.2712E-01	0.3013E-02	-0.2196E-02	-0.7156E-02
105	0.1592E-01	0.7423E-01	-0.3374E-01	0.4157E-02	-0.2134E-02	-0.7104E-02
106	0.1595E-01	0.9486E-01	-0.3972E-01	0.5301E-02	-0.1816E-02	-0.6595E-02
107	0.1604E-01	0.1551E+00	-0.4953E-01	0.9684E-02	0.3218E-03	-0.3721E-02
109	0.1702E-01	0.1451E+00	-0.4875E-01	0.1041E-01	0.7267E-03	-0.3011E-02
111	0.1902E-01	0.1084E+00	-0.4875E-01	0.1129E-01	0.1264E-03	-0.1779E-02
112	0.1878E-01	0.9219E-01	-0.4875E-01	0.1162E-01	-0.5770E-03	-0.1260E-02
60	0.1811E-01	0.6707E-03	-0.1751E-01	-0.7799E-03	0.5254E-03	-0.7139E-03
61	0.1857E-01	0.2090E-02	-0.1752E-01	-0.9046E-04	0.2043E-04	-0.1061E-02
62	0.1855E-01	0.2113E-02	-0.1752E-01	-0.2993E-04	-0.1174E-04	-0.1089E-02
63	0.1681E-01	0.4141E-02	-0.1977E-01	0.2301E-02	-0.7335E-03	-0.1538E-02
64	0.1659E-01	0.2128E-01	-0.2969E-01	0.6202E-02	-0.1054E-02	-0.1720E-02
65	0.1649E-01	0.3155E-01	-0.3529E-01	0.7978E-02	-0.1180E-02	-0.1491E-02
131	0.2114E-01	0.3155E-01	-0.9130E-02	0.8005E-02	-0.1180E-02	-0.1466E-02
132	0.2596E-01	0.3156E-01	0.1683E-01	0.8012E-02	-0.1180E-02	-0.1477E-02
66	0.1648E-01	0.3901E-01	-0.4149E-01	0.9474E-02	-0.1163E-02	-0.1447E-02
67	0.1647E-01	0.4502E-01	-0.4621E-01	0.1074E-01	-0.9342E-03	-0.1338E-02
68	0.1647E-01	0.4891E-01	-0.4875E-01	0.1164E-01	-0.6546E-03	-0.1222E-02
69	0.1646E-01	0.5239E-01	-0.5035E-01	0.1254E-01	-0.3090E-03	-0.1067E-02
70	0.1646E-01	0.5467E-01	-0.5079E-01	0.1322E-01	0.1328E-04	-0.9326E-03
71	0.1645E-01	0.5854E-01	-0.4878E-01	0.1473E-01	0.9219E-03	-0.5764E-03
133	0.1815E-01	0.5855E-01	-0.8260E-03	0.1475E-01	0.9219E-03	-0.5540E-03
134	0.1999E-01	0.5856E-01	0.4725E-01	0.1477E-01	0.9219E-03	-0.5622E-03
72	0.1652E-01	0.6116E-01	-0.4156E-01	0.1605E-01	0.2129E-02	-0.5243E-03
73	0.1681E-01	0.8137E-01	0.9653E-01	0.2196E-01	0.1147E-01	-0.1729E-02
74	0.1685E-01	0.8599E-01	0.1277E+00	0.2263E-01	0.1258E-01	-0.2016E-02
75	0.1691E-01	0.9761E-01	0.1946E+00	0.2396E-01	0.1297E-01	-0.2705E-02
76	0.1697E-01	0.1131E+00	0.2574E+00	0.2529E-01	0.1101E-01	-0.3580E-02
77	0.1701E-01	0.1226E+00	0.2837E+00	0.2595E-01	0.9165E-02	-0.4100E-02
78	0.1699E-01	0.1383E+00	0.3160E+00	0.2469E-01	0.7002E-02	-0.3731E-02
9021	0.1687E-01	0.2043E+00	0.3298E+00	0.1573E-01	-0.4866E-02	-0.8060E-03
79	0.1674E-01	0.1902E+00	0.1147E+00	0.6757E-02	-0.8382E-02	0.1497E-02
80	0.1669E-01	0.1715E+00	0.2900E-01	0.3350E-02	-0.7006E-02	0.1821E-02
81	0.1667E-01	0.1666E+00	0.1078E-01	0.2508E-02	-0.6423E-02	0.1829E-02
82	0.3414E-01	0.1640E+00	-0.9750E-02	0.3646E-03	-0.3613E-02	0.1936E-02
9022	0.5643E-01	0.1159E+00	-0.1003E-01	-0.3426E-02	0.1150E-02	0.1238E-02
83	0.1013E-01	0.2368E-01	-0.1030E-01	-0.2923E-02	0.1665E-02	0.5407E-03
84	0.6361E-02	0.1711E-01	-0.1033E-01	-0.2642E-02	0.1490E-02	0.4772E-03
85	0.3968E-02	0.1284E-01	-0.1034E-01	-0.2416E-02	0.1343E-02	0.4316E-03
86	-0.5330E-03	0.6242E-03	-0.2019E-02	-0.7949E-03	0.2728E-03	0.1975E-03
87	0.4572E-08	0.4926E-08	0.8839E-08	-0.3615E-09	0.2715E-10	0.1744E-09

COUPLED MODE SHAPES (FOR SECONDARY MODE) MODE 19
FREQUENCY (HZ.) = 16.09074

MODAL DISP AT PRIMARY SYSTEM CONNETING DOF

DOF #	DISPLACEMENT
3041	0.1814E-05
3042	0.0000E+00
3043	-0.4079E-04
3061	0.1459E-05
3063	-0.1371E-03
3072	0.0000E+00
3081	-0.1311E-05
3103	-0.4935E-03
3121	-0.1280E-04
3122	0.0000E+00
3123	-0.6439E-03
3091	-0.3031E-05
3092	0.0000E+00

3093 -0.3057E-03

MODAL DISPLACEMENTS AT SECONDARY SYSTEM DOF

NODE	DX	DY	DZ	ROT-X	ROT-Y	ROT-Z
1	0.1953E-08	-0.8118E-09	-0.2456E-08	0.2858E-09	0.1112E-08	-0.5600E-09
2	-0.2636E-02	-0.6286E-03	-0.2671E-02	0.4355E-03	0.1109E-02	-0.6731E-03
3	-0.1409E-01	-0.1540E-01	-0.3678E-01	0.1591E-02	0.3469E-02	-0.1918E-02
4	-0.1403E-01	-0.8483E-01	-0.1646E+00	0.3520E-02	0.5737E-02	-0.3173E-02
5	-0.1399E-01	-0.1302E+00	-0.2446E+00	0.4490E-02	0.6160E-02	-0.3606E-02
9001	-0.1214E-01	-0.1371E+00	-0.2539E+00	0.4633E-02	0.6220E-02	-0.3718E-02
9002	-0.6942E-02	-0.1422E+00	-0.2560E+00	0.4796E-02	0.6254E-02	-0.3821E-02
6	0.3307E-03	-0.1442E+00	-0.2499E+00	0.4989E-02	0.6293E-02	-0.3906E-02
7	0.9196E-02	-0.1442E+00	-0.2386E+00	0.5115E-02	0.6152E-02	-0.3944E-02
9003	0.1368E+00	-0.1441E+00	-0.3469E-01	0.5332E-02	0.7311E-02	-0.2238E-02
9004	0.1428E+00	-0.1440E+00	0.1040E+00	0.1412E-02	0.8270E-02	0.2051E-02
8	-0.1055E-02	-0.1437E+00	0.3029E-01	-0.5719E-02	0.9230E-02	0.5255E-02
10	-0.3544E-01	-0.1437E+00	-0.1075E-01	-0.7153E-02	0.9396E-02	0.5485E-02
9005	-0.2059E+00	-0.1433E+00	-0.2869E+00	-0.8558E-02	0.1021E-01	0.4967E-02
9006	-0.3362E+00	-0.1429E+00	-0.4552E+00	-0.1055E-02	0.1103E-01	0.3489E-02
11	-0.4586E+00	-0.1425E+00	-0.5231E+00	0.9385E-02	0.1184E-01	0.5412E-02
12	-0.5278E+00	-0.1423E+00	-0.2043E+00	0.1260E-01	0.1212E-01	0.7777E-02
9007	-0.5432E+00	-0.1380E+00	-0.1858E+00	0.1355E-01	0.1211E-01	0.8821E-02
9008	-0.5560E+00	-0.1251E+00	-0.1832E+00	0.1434E-01	0.1206E-01	0.9874E-02
13	-0.5611E+00	-0.1055E+00	-0.1985E+00	0.1502E-01	0.1211E-01	0.1085E-01
14	-0.5611E+00	-0.7445E-01	-0.2320E+00	0.1594E-01	0.1224E-01	0.1147E-01
15	-0.5610E+00	-0.2354E-02	-0.3065E+00	0.1794E-01	0.1269E-01	0.1226E-01
16	-0.5607E+00	0.1680E+00	-0.4972E+00	0.2260E-01	0.1510E-01	0.1141E-01
17	-0.5431E+00	0.1714E+00	-0.5390E+00	0.2380E-01	0.1650E-01	0.1019E-01
18	-0.4579E+00	0.9551E-01	-0.6239E+00	0.2605E-01	0.1802E-01	0.8290E-02
19	-0.3273E+00	-0.5288E-01	-0.7541E+00	0.3022E-01	0.1934E-01	0.4616E-02
20	0.3452E-01	-0.7901E+00	-0.1115E+01	0.4694E-01	0.1919E-01	-0.1077E-01
21	0.1448E+00	-0.9594E+00	-0.9674E+00	0.5553E-01	0.1826E-01	-0.1886E-01
9009	0.1113E+01	-0.9583E+00	0.1365E+01	0.4820E-01	0.1314E-01	-0.2045E-01
9010	0.1344E+01	-0.9565E+00	0.2235E+01	-0.9457E-02	0.8021E-02	0.1145E-01
22	0.3025E+00	-0.9540E+00	0.7480E+00	-0.5636E-01	0.2902E-02	0.3517E-01
23	-0.2222E-02	-0.9534E+00	0.2515E+00	-0.5970E-01	0.1817E-02	0.3608E-01
24	-0.5769E+00	-0.9521E+00	-0.7265E+00	-0.5747E-01	-0.2731E-03	0.3278E-01
9011	-0.1332E+01	-0.9490E+00	-0.2159E+01	-0.2170E-01	-0.4535E-02	0.8929E-02
9012	-0.1095E+01	-0.9454E+00	-0.1987E+01	0.3132E-01	-0.8797E-02	-0.2207E-01
25	-0.3941E-01	-0.9414E+00	-0.3227E+00	0.6098E-01	-0.1306E-01	-0.3644E-01
26	0.3051E+00	-0.9402E+00	0.2635E+00	0.6143E-01	-0.1427E-01	-0.3550E-01
9013	0.1271E+01	-0.9353E+00	0.2060E+01	0.3158E-01	-0.1880E-01	-0.1440E-01
9014	0.1187E+01	-0.9300E+00	0.2213E+01	-0.2305E-01	-0.2332E-01	0.1866E-01
27	0.1442E+00	-0.9241E+00	0.7194E+00	-0.5245E-01	-0.2784E-01	0.3490E-01
28	-0.3115E+00	-0.9218E+00	0.3179E-01	-0.4949E-01	-0.2953E-01	0.3292E-01
29	-0.8794E+00	-0.9181E+00	-0.8299E+00	-0.3564E-01	-0.3209E-01	0.2234E-01
9015	-0.1140E+01	-0.9106E+00	-0.1571E+01	-0.3728E-02	-0.3685E-01	-0.1010E-01
9016	-0.1936E+00	-0.9027E+00	-0.1350E+01	0.8419E-02	-0.4162E-01	-0.3696E-01
30	0.1328E+01	-0.8942E+00	-0.1674E+01	-0.3928E-01	-0.4639E-01	-0.3897E-01
31	0.1368E+01	-0.8939E+00	-0.1714E+01	-0.4165E-01	-0.4652E-01	-0.3969E-01
32	0.1420E+01	-0.8378E+00	-0.1841E+01	-0.5458E-01	-0.4707E-01	-0.3818E-01
35	0.1335E+01	-0.6746E+00	-0.1905E+01	-0.6517E-01	-0.4776E-01	-0.3692E-01
37	0.9288E+00	-0.8836E-01	-0.1905E+01	-0.6783E-01	-0.4860E-01	-0.3370E-01
9017	-0.5384E+00	0.1506E+01	-0.1901E+01	-0.2707E-01	-0.3694E-01	-0.2135E-01
9018	-0.1206E+01	0.1591E+01	-0.1897E+01	0.2070E-02	-0.8793E-03	-0.8997E-02
38	-0.5024E+00	0.3830E+00	-0.1892E+01	0.4780E-01	0.4400E-01	0.3356E-02
39	0.2597E-01	-0.1236E+00	-0.1890E+01	0.4847E-01	0.5766E-01	0.7315E-02
9019	0.2154E+01	-0.1515E+01	-0.1882E+01	0.2590E-01	0.4926E-01	0.2031E-01
40	0.2477E+01	-0.1623E+01	-0.1874E+01	-0.2087E-01	-0.4054E-01	0.3331E-01
41	-0.2723E+00	-0.4407E+00	-0.1866E+01	-0.5626E-01	-0.1477E+00	0.4454E-01
43	-0.8815E+00	-0.4196E-01	-0.1217E+01	-0.6435E-01	-0.1835E+00	0.4776E-01
44	-0.8815E+00	0.2715E-01	-0.9480E+00	-0.6586E-01	-0.1867E+00	0.4802E-01
45	-0.8814E+00	0.2118E+00	-0.2194E+00	-0.6989E-01	-0.1915E+00	0.4826E-01
9020	-0.8805E+00	0.1378E+01	0.5014E+01	-0.9998E-01	-0.1580E+00	0.2604E-01
46	-0.8793E+00	0.1385E+01	0.8170E+01	-0.1301E+00	-0.5672E-01	-0.2967E-01
47	-0.8792E+00	0.1289E+01	0.8321E+01	-0.1332E+00	-0.4423E-01	-0.3694E-01
91	-0.7689E+00	0.1290E+01	0.7918E+01	-0.1341E+00	-0.3975E-01	-0.3625E-01
92	-0.3863E+00	0.1291E+01	0.6480E+01	-0.1084E+00	-0.7483E-02	-0.3149E-01
93	-0.2561E+00	0.1553E+01	0.6147E+01	-0.4141E-01	0.1249E-01	-0.2988E-01
94	-0.2040E+00	0.1651E+01	0.6146E+01	-0.1667E-01	0.1965E-01	-0.2814E-01
95	-0.7810E-01	0.1635E+01	0.6144E+01	0.2536E-01	0.3067E-01	-0.2546E-01
96	0.1029E+00	0.1397E+01	0.6141E+01	0.7138E-01	0.4164E-01	-0.2277E-01
97	0.1134E+00	0.1379E+01	0.6141E+01	0.7376E-01	0.4218E-01	-0.2254E-01
98	0.2313E+00	0.9610E+00	0.5617E+01	0.1697E+00	0.6266E-01	-0.1670E-01
100	0.1603E+00	0.9614E+00	0.4777E+01	0.1951E+00	0.7536E-01	-0.1492E-01
101	0.1173E+00	0.9617E+00	0.4168E+01	0.2037E+00	0.8382E-01	-0.1377E-01
102	0.6669E-01	0.9623E+00	0.3386E+01	0.2044E+00	0.9251E-01	-0.1281E-01
113	0.6357E+00	-0.2480E+00	0.4169E+01	0.1953E+00	0.8938E-01	-0.8038E-02
114	0.1022E+01	-0.1050E+01	0.4169E+01	0.1797E+00	0.9132E-01	-0.2705E-02
115	0.1410E+01	-0.1771E+01	0.4169E+01	0.1574E+00	0.9098E-01	0.2629E-02
116	0.1972E+01	-0.2629E+01	0.4169E+01	0.1143E+00	0.8822E-01	0.1048E-01
118	0.2136E+01	-0.2847E+01	0.4356E+01	0.6481E-01	0.8415E-01	0.1613E-01
9023	0.1271E+01	-0.2849E+01	0.3200E+01	-0.1304E+00	0.5752E-01	0.4337E-01
120	-0.7698E-01	-0.2850E+01	-0.1728E+01	-0.1805E+00	0.3088E-01	0.4247E-01
122	-0.1034E+00	-0.2462E+01	-0.2125E+01	-0.1682E+00	0.2781E-01	0.3752E-01
124	0.9525E-02	-0.1769E+01	-0.2125E+01	-0.1590E+00	0.2587E-01	0.3178E-01
125	0.2553E+00	-0.2835E+00	-0.2125E+01	-0.1323E+00	0.2279E-01	0.1806E-01
127	0.3376E+00	-0.2142E-02	-0.1856E+01	-0.1127E+00	0.2090E-01	0.1244E-01
129	0.3626E+00	-0.1263E-02	-0.2146E-01	-0.1034E-01	0.1233E-01	-0.8698E-02
9024	0.1423E+00	-0.6316E-03	0.1306E+00	0.6390E-02	0.6162E-02	-0.1241E-01
130	0.6700E-08	-0.1381E-07	0.1745E-07	0.2086E-08	0.3500E-09	-0.1536E-08
48	-0.8790E+00	0.1164E+01	0.8448E+01	-0.1306E+00	-0.3677E-01	-0.4479E-01
49	-0.8787E+00	0.9110E+00	0.8593E+01	-0.1262E+00	-0.1705E-01	-0.5408E-01
50	-0.8783E+00	0.6234E+00	0.8618E+01	-0.1218E+00	0.8102E-02	-0.5823E-01
51	-0.8782E+00	0.5345E+00	0.8601E+01	-0.1205E+00	0.1600E-01	-0.5841E-01
52	-0.8778E+00	0.2154E+00	0.8432E+01	-0.1157E+00	0.4590E-01	-0.5477E-01
53	-0.8755E+00	-0.7912E+00	0.5920E+01	-0.9441E-01	0.1503E+00	-0.3069E-01
54	-0.8717E+00	-0.1699E+01	0.1773E+00	-0.6304E-01	0.1247E+00	-0.2795E-01

55	-0.8716E+00	-0.1719E+01	0.8494E-01	-0.6238E-01	0.1214E+00	-0.2839E-01
56	-0.5328E+00	-0.1618E+01	-0.3045E+00	-0.5437E-01	0.7075E-01	-0.3630E-01
57	-0.3853E+00	-0.1498E+01	-0.3045E+00	-0.5205E-01	0.5898E-01	-0.3888E-01
58	-0.2801E+00	-0.1395E+01	-0.3045E+00	-0.4964E-01	0.4876E-01	-0.4117E-01
59	-0.1578E+00	-0.1251E+01	-0.3045E+00	-0.4533E-01	0.3559E-01	-0.4460E-01
103	-0.1573E+00	-0.1072E+01	-0.1962E+00	-0.3783E-01	0.1560E-01	-0.5651E-01
104	-0.1553E+00	-0.3661E+00	-0.2906E+00	-0.7332E-02	-0.2459E-01	-0.9124E-01
105	-0.1546E+00	-0.8289E-01	-0.3655E+00	0.2519E-02	-0.2382E-01	-0.9700E-01
106	-0.1539E+00	0.2128E+00	-0.4296E+00	0.1237E-01	-0.1805E-01	-0.9927E-01
107	-0.1513E+00	0.1269E+01	-0.3920E+00	0.5012E-01	0.3161E-01	-0.7615E-01
109	-0.9103E-01	0.1297E+01	-0.3370E+00	0.5630E 01	0.4144E-01	-0.6486E-01
111	0.2961E-01	0.1090E+01	-0.3370E+00	0.6704E-01	0.2021E-01	-0.4512E-01
112	0.4484E-01	0.9914E+00	-0.3370E+00	0.7212E-01	-0.2335E-02	-0.3683E-01
60	-0.7094E-01	-0.1122E+01	-0.3045E+00	-0.4024E-01	0.2548E-01	-0.4783E-01
61	-0.9975E-02	-0.1009E+01	-0.3045E+00	-0.3429E-01	0.1830E-01	-0.5106E-01
62	-0.5798E-02	-0.1000E+01	-0.3045E+00	-0.3375E-01	0.1783E-01	-0.5133E-01
63	0.3626E-01	-0.6997E+00	-0.2710E+00	-0.1258E-01	0.6384E-02	-0.5523E-01
64	0.3340E-01	-0.8221E-01	-0.2404E+00	0.2341E-01	-0.1012E-02	-0.5421E-01
65	0.3211E-01	0.1809E+00	-0.2543E+00	0.3979E-01	-0.4681E-02	-0.4970E-01
131	0.1922E+00	0.1809E+00	-0.1236E+00	0.4003E-01	-0.4681E-02	-0.4959E-01
132	0.3542E+00	0.1810E+00	0.6566E-02	0.4003E-01	-0.4681E-02	-0.4976E-01
66	0.3155E-01	0.4214E+00	-0.2872E+00	0.5315E-01	-0.6927E-02	-0.4552E-01
67	0.3108E-01	0.6060E+00	-0.3185E+00	0.6450E-01	-0.6442E-02	-0.4052E-01
68	0.3074E-01	0.7221E+00	-0.3370E+00	0.7252E-01	-0.4784E-02	-0.3621E-01
69	0.3050E-01	0.8242E+00	-0.3505E+00	0.8067E-01	-0.2988E-02	-0.3114E-01
70	0.3031E-01	0.8902E+00	-0.3561E+00	0.8679E-01	-0.9211E-03	-0.2692E-01
71	0.2991E-01	0.1000E+01	-0.3475E+00	0.1004E+00	0.5871E-02	-0.1629E-01
133	0.8219E-01	0.1001E+01	-0.2033E+00	0.1006E+00	0.5871E-02	-0.1623E-01
134	0.1353E+00	0.1001E+01	0.3077E+00	0.1008E+00	0.5871E-02	-0.1630E-01
72	0.2942E-01	0.1056E+01	-0.2972E+00	0.1123E+00	0.1613E-01	-0.6997E-02
73	0.294?E-01	0.9647E+00	0.9356E+00	0.1653E+00	0.1087E+00	0.6867E-02
74	0.2938E-01	0.9480E+00	0.1233E+01	0.1722E+00	0.1205E+00	0.5530E-02
75	0.2929E-01	0.9287E+00	0.1881E+01	0.1831E+00	0.1272E+00	0.8035E-03
76	0.2920E-01	0.9400E+00	0.2505E+01	0.1951E+00	0.1118E+00	-0.7052E-02
77	0.2915E-01	0.9626E+00	0.2774E+01	0.2010E+00	0.9614E-01	-0.1230E-01
78	0.2897E-01	0.1027E+01	0.3115E+01	0.1893E+00	0.7430E-01	-0.1925E-01
9021	0.2762E-01	0.2033E+01	0.3332E+01	0.1058E+00	-0.4805E-01	-0.4319E-01
79	0.2626E-01	0.3205E+01	0.3136E+01	0.2220E-01	-0.8694E-01	-0.3530E-01
80	0.2574E-01	0.3555E+01	0.2418E+00	-0.9541E-02	-0.7363E-01	-0.2943E-01
81	0.2561E-01	0.3632E+01	0.5002E-01	-0.1735E-01	-0.6777E-01	-0.2827E-01
82	0.2131E+00	0.3618E+01	-0.1684E+00	-0.3795E-01	-0.3942E-01	-0.2311E-01
9022	0.5109E+00	0.2124E+01	-0.1713E+00	-0.7111E-01	0.8927E-02	-0.1412E-01
83	0.1067E+00	0.3980E+00	-0.1741E+00	-0.5267E-01	0.1457E-01	-0.5141E-02
84	0.7401E-01	0.2797E+00	-0.1743E+00	-0.4795E-01	0.1284E-01	-0.4323E-02
85	0.5331E-01	0.2021E+00	-0.1745E+00	-0.4426E-01	0.1138E-01	-0.3739E-02
86	0.1249E-02	-0.1866E-03	-0.4193E-01	-0.1714E-01	0.1302E-02	-0.6168E-03
87	0.4628E-07	0.6441E-07	0.5037E-07	-0.1019E-07	0.4845E-10	-0.5250E-12

COUPLED MODE SHAPES (FOR SECONDARY MODE) MODE 20
FREQUENCY (HZ.) = 16.59752

MODAL DISP AT PRIMARY SYSTEM CONNETING DOF

DOF #	DISPLACEMENT
3041	0.4933E-06
3042	0.0000E+00
3043	0.3551E-05
3061	-0.2389E-05
3063	0.1193E-04
3072	0.0000E+00
3081	-0.8251E-05
3103	0.4296E-04
3121	-0.2852E-04
3122	0.0000E+00
3123	0.5606E-04
3091	-0.1136E-04
3092	0.0000E+00
3093	0.2662E-04

MODAL DISPLACEMENTS AT SECONDARY SYSTEM DOF

NODE	DX	DY	DZ	ROT-X	ROT-Y	ROT-Z
1	-0.2193E-07	-0.4926E-07	-0.2116E-08	-0.3228E-08	0.4639E-08	-0.1606E-07
2	-0.1077E-01	-0.4449E-01	-0.1061E-01	-0.1333E-03	0.4101E-02	-0.1696E-01
3	-0.4933E-01	-0.5022E+00	-0.1160E+00	0.5497E-02	0.1003E-01	-0.4329E-01
4	-0.5001E-01	-0.1808E+01	-0.4813E+00	0.1582E-01	0.1709E-01	-0.4641E-01
5	-0.5035E-01	-0.2343E+01	-0.7327E+00	0.2101E-01	0.2066E-01	-0.3169E-01
9001	-0.3617E-01	-0.2398E+01	-0.7615E+00	0.2172E-01	0.2163E-01	-0.2648E-01
9002	-0.3844E-02	-0.2431E+01	-0.7614E+00	0.2245E-01	0.2244E-01	-0.2115E-01
6	0.3057E-01	-0.2440E+01	-0.7298E+00	0.2335E-01	0.2321E-01	-0.1590E-01
7	0.6249E-01	-0.2440E+01	-0.6765E+00	0.2393E-01	0.2415E-01	-0.1276E-01
9003	-0.1285E+00	-0.2440E+01	0.2346E+00	0.2168E-01	0.3944E-01	0.1561E-01
9004	-0.5831E+00	-0.2439E+01	0.6847E+00	-0.2658E-05	0.5472E-01	0.2198E-02
9	0.9122E-01	-0.2436E+01	0.1550E+00	-0.2828E-01	0.7001E-01	-0.4306E-01
10	0.3976E+00	-0.2435E+01	-0.3989E-01	-0.3280E-01	0.7265E-01	-0.5116E-01
9005	0.2084E+01	-0.2430E+01	-0.1150E+01	-0.2952E-01	0.8564E-01	-0.4314E-01
9006	0.2484E+01	-0.2424E+01	-0.1479E+01	0.1372E-01	0.9862E-01	0.2496E-01
11	0.3109E+00	-0.2417E+01	-0.1152E+00	0.7442E-01	0.1116E+00	0.1141E+00
12	-0.1078E+01	-0.2414E+01	0.8017E+00	0.9632E-01	0.1161E+00	0.1444E+00
9007	-0.1359E+01	-0.2338E+01	0.9304E+00	0.1035E+00	0.1164E+00	0.1543E+00
9008	-0.1577E+01	-0.2117E+01	0.9167E+00	0.1097E+00	0.1163E+00	0.1631E+00
13	-0.1661E+01	-0.1802E+01	0.7543E+00	0.1151E+00	0.1168E+00	0.1699E+00
14	-0.1661E+01	-0.1326E+01	0.4313E+00	0.1226E+00	0.1176E+00	0.1729E+00
15	-0.1661E+01	-0.2808E+00	-0.2790E+00	0.1389E+00	0.1190E+00	0.1707E+00
16	-0.1660E+01	0.1959E+01	-0.1955E+01	0.1766E+00	0.1211E+00	0.1496E+00
17	-0.1527E+01	0.2143E+01	-0.2277E+01	0.1861E+00	0.1216E+00	0.1401E+00
18	-0.9305E 00	0.1854E+01	-0.2873E+01	0.2011E+00	0.1213E+00	0.1289E+00

19	-0.9617E-01	0.1225E+01	-0.3707E+01	0.1222E+00	0.1187E+00	0.1132E+00
20	0.1996E+01	-0.1611E+01	-0.5797E+01	0.2735E+00	0.1095E+00	0.7636E-01
21	0.2032E+01	-0.2165E+01	-0.5015E+01	0.2905E+00	0.1074E+00	0.6255E-01
9009	0.3308E+00	-0.2165E+01	0.5831E+01	0.2022E+00	0.1005E+00	0.2576E-01
9010	-0.2185E+00	-0.2162E+01	0.8860E+01	-0.6343E-01	0.9368E-01	0.3042E-02
22	-0.7173E-01	-0.2158E+01	0.1903E+01	-0.2411E+00	0.8683E-01	-0.7618E-02
23	-0.5347E-02	-0.2157E+01	-0.1822E+00	-0.2460E+00	0.8538E-01	-0.7787E-02
24	0.1153E+00	-0.2155E+01	-0.4066E+01	-0.2192E+00	0.8258E-01	-0.6703E-02
9011	0.2605E+00	-0.2149E+01	-0.6933E+01	-0.4912E-01	0.7687E-01	-0.1366E-02
9012	0.1968E+00	-0.2142E+01	-0.6899E+01	0.1619E+00	0.7117E-01	0.4863E-02
25	-0.2200E-01	-0.2134E+01	0.5211E+00	0.2487E+00	0.6547E-01	0.7218E-02
26	-0.8922E-01	-0.2132E+01	0.2851E+01	0.2378E+00	0.6384E-01	0.6816E-02
9013	-0.2605E+00	-0.2122E+01	0.9080E+01	0.8687E-01	0.5779E-01	0.2003E-02
9014	-0.2115E+00	-0.2111E+01	0.8228E+01	-0.1229E+00	0.5174E-01	-0.4499E-02
27	0.9620E-02	-0.2098E+01	0.2238E+01	-0.1698E+00	0.4569E-01	-0.6808E-02
28	0.9531E-01	-0.2093E+01	0.2790E+00	-0.1170E+00	0.4342E-01	-0.5929E-02
29	0.1893E+00	-0.2085E+01	-0.1041E+01	-0.2077E-01	0.4000E-01	-0.3215E-02
9015	0.1878E+00	-0.2069E+01	0.2076E+00	0.6523E-01	0.3362E-01	0.3386E-02
9016	-0.3636E-01	-0.2052E+01	0.2276E+01	0.2415E-01	0.2724E-01	0.7766E-02
30	-0.3379E+00	-0.2033E+01	0.9004E+00	-0.1078E+00	0.2086E-01	0.7717E-02
31	-0.3456E+00	-0.2033E+01	0.7906E+00	-0.1121E+00	0.2069E-01	0.7664E-02
32	-0.3433E+00	-0.1890E+01	0.4629E+00	-0.1344E+00	0.2018E-01	0.7469E-02
35	-0.2988E+00	-0.1503E+01	0.3067E+00	-0.1501E+00	0.1951E-01	0.7338E-02
37	-0.1393E+00	-0.2087E+00	0.3069E+00	-0.1436E+00	0.1825E-01	0.6816E-02
9017	0.3295E+00	0.2583E+01	0.3074E+00	-0.2881E-01	0.9455E-02	0.4815E-02
9018	0.4301E+00	0.1916E+01	0.3078E+00	0.6141E-01	-0.3401E-02	0.2815E-02
38	0.1425E+00	-0.6831E+00	0.3080E+00	0.8422E-01	-0.1310E-01	0.6138E-03
39	-0.2208E-02	-0.1513E+01	0.3081E+00	0.7385E-01	-0.1457E-01	0.1726E-03
9019	-0.4548E+00	-0.3040E+01	0.3080E+00	0.9960E-02	-0.8855E-02	-0.1931E-02
40	-0.4604E+00	-0.2191E+01	0.3077E+00	-0.5398E-01	0.9919E-02	-0.4038E-02
41	0.1161E+00	-0.2838E+00	0.3074E+00	-0.6522E-01	0.2905E-01	-0.5857E-02
43	0.2343E+00	-0.7369E-01	0.1823E+00	-0.5790E-01	0.3559E-01	-0.6071E-02
44	0.2343E+00	-0.8525E-01	0.1304E+00	-0.5625E-01	0.3637E-01	-0.8595E-02
45	0.2343E+00	-0.1212E+00	-0.1235E-01	-0.5186E-01	0.3826E-01	-0.9986E-02
9020	0.2341E+00	-0.4430E+00	-0.1161E+01	-0.1905E-01	0.3732E-01	-0.9088E-02
46	0.2336E+00	-0.4846E+00	-0.1954E+01	0.1376E-01	0.1597E-01	0.8635E-02
47	0.2338E+00	-0.4549E+00	-0.1997E+01	0.1721E-01	0.1306E-01	0.1129E-01
91	0.2003E+00	-0.4550E+00	-0.1944E+01	0.1814E-01	0.1201E-01	0.1085E-01
92	0.9404E-01	-0.4557E+00	-0.1729E+01	0.1680E-01	0.4450E-02	0.8314E-02
93	0.7082E-01	-0.4937E+00	-0.1678E+01	0.4376E-02	-0.2871E-03	0.7387E-02
94	0.6707E-01	-0.5006E+00	-0.1678E+01	-0.8923E-03	-0.2109E-02	0.6777E-02
95	0.4931E-01	-0.4742E+00	-0.1677E+01	-0.1058E-01	-0.5046E-02	0.5835E-02
96	0.1616E-01	-0.3946E+00	-0.1677E+01	-0.2195E-01	-0.8241E-03	0.4893E-02
97	0.1409E-01	-0.3891E+00	-0.1676E+01	-0.2255E-01	-0.8402E-02	0.4846E-02
98	-0.1313E-01	-0.2685E+00	-0.1528E+01	-0.4746E-01	-0.1456E-01	0.2760E-02
100	-0.2351E-02	-0.2687E+00	-0.1294E+01	-0.5411E-01	-0.1859E-01	0.1940E-02
101	0.2596E-02	-0.2689E+00	-0.1126E+01	-0.5630E-01	-0.2120E-01	0.1323E-02
102	0.6425E-02	-0.2691E+00	-0.9105E+00	-0.5605E-01	-0.2399E-01	0.5575E-03
113	-0.1287E+00	0.6860E-01	-0.1126E+01	-0.5527E-01	-0.2264E-01	0.1792E-03
114	-0.2268E+00	0.2979E+00	-0.1126E+01	-0.5170E-01	-0.2326E-01	-0.6860E-03
115	-0.3259E+00	0.5066E+00	-0.1126E+01	-0.4585E-01	-0.2326E-01	-0.1951E-02
116	-0.4659E+00	0.7586E+00	-0.1126E+01	-0.3372E-01	-0.2265E-01	-0.3519E-02
118	-0.5106E+00	0.8230E+00	-0.1182E+01	-0.1922E-01	-0.2171E-01	-0.4675E-02
9023	-0.2919E+00	0.8238E+00	-0.8511E+00	0.3771E-01	-0.1537E-01	-0.1048E-01
120	0.2927E-01	0.8241E+00	0.5693E+00	0.5178E-01	-0.8024E-02	-0.1002E-01
122	0.3159E-01	0.7130E+00	0.6828E+00	0.4813E-01	-0.8291E-02	-0.8829E-02
124	-0.2343E-02	0.5147E+00	0.6829E+00	0.4563E-01	-0.7816E-02	-0.7451E-02
125	-0.7723E-01	0.8421E-01	0.6829E+00	0.3899E-01	-0.6978E-02	-0.4156E-02
127	-0.9989E-01	0.4104E-01	0.6020E+00	0.3432E-01	-0.6438E-02	-0.2795E-02
129	-0.9921E-01	0.2421E-01	0.9583E-02	0.1044E-01	-0.3796E-02	0.2450E-02
9024	-0.3855E-01	0.1211E-03	-0.4385E-01	-0.2111E-02	-0.1898E-02	0.3375E-02
130	-0.1789E-08	0.2647E-08	-0.5937E-08	-0.7052E-09	-0.1078E-09	0.4147E-09
48	0.2317E+00	-0.4151E+00	-0.2035E+01	0.1742E-01	0.1126E-01	0.1460E-01
49	0.2336E+00	-0.3296E+00	-0.2082E+01	0.1777E-01	0.6354E-02	0.1870E-01
50	0.2335E+00	-0.2281E+00	-0.2099E+01	0.1812E-01	0.2082E-05	0.2088E-01
51	0.2335E+00	-0.1961E+00	-0.2097E+01	0.1822E-01	-0.2004E-02	0.2114E-01
52	0.2333E+00	-0.7872E-01	-0.2066E+01	0.1861E-01	-0.9629E-02	0.2047E-01
53	0.2326E+00	0.3295E+00	-0.1472E+01	0.2031E-01	-0.3663E-01	0.1387E-01
54	0.2314E+00	0.7904E+00	-0.4957E-01	0.2282E-01	-0.3111E-01	0.1458E-01
55	0.2314E+00	0.8013E+00	-0.2656E-01	0.2287E-01	-0.3028E-01	0.1476E-01
56	0.1456E+00	0.7745E+00	0.7065E-01	0.2263E-01	-0.1768E-01	0.1772E-01
57	0.1097E+00	0.7235E+00	0.7065E-01	0.2242E-01	-0.1469E-01	0.1880E-01
58	0.8361E-01	0.6786E+00	0.7064E-01	0.2208E-01	-0.1208E-01	0.1976E-01
59	0.5351E-01	0.6130E+00	0.7063E-01	0.2126E-01	-0.8743E-02	0.2119E-01
103	0.5339E-01	0.5316E+00	0.4401E-01	0.1913E-01	-0.3851E-02	0.2339E-01
104	0.5288E-01	0.2674E+00	0.6672E-01	0.1040E-01	0.5941E-02	0.3378E-01
105	0.5272E-01	0.1608E+00	0.8474E-01	0.7586E-02	0.5721E-02	0.3717E-01
106	0.5255E-01	0.4522E-01	0.1000E+00	0.4770E-02	0.4272E-02	0.3954E-01
107	0.5188E-01	-0.3958E+00	0.8826E-01	-0.6021E-02	-0.8042E-02	0.3286E-01
109	0.3665E-01	-0.4122E+00	0.7431E-01	-0.7766E-02	-0.1044E-01	0.2809E-01
111	0.6467E-02	-0.3999E+00	0.7432E-01	-0.1166E-01	-0.4955E-02	0.1976E-01
112	0.2872E-02	-0.3820E+00	0.7432E-01	-0.1371E-01	0.7945E-03	0.1626E-01
60	0.3232E-01	0.5504E+00	0.7062E-01	0.2009E-01	-0.6223E-02	0.2260E-01
61	0.1751E-01	0.4918E+00	0.7061E-01	0.1852E-01	-0.4481E-02	0.2401E-01
62	0.1650E-01	0.4873E+00	0.7061E-01	0.1837E-01	-0.4371E-02	0.2412E-01
63	0.5883E-02	0.3305E+00	0.6169E-01	0.1222E-01	-0.1866E-02	0.2612E-01
64	0.6641E-02	0.3977E-01	0.5015E-01	0.1252E-02	-0.4692E-04	0.2543E-01
65	0.6986E-02	-0.8347E-01	0.5244E-01	-0.3738E-02	0.1046E-02	0.2325E-01
131	-0.6811E-01	-0.8349E-01	0.3990E-01	-0.3792E-02	0.1046E-02	0.2323E-01
132	-0.1440E+00	-0.8351E-01	0.2763E-01	-0.3778E-02	0.1046E-02	0.2311E-01
66	0.7075E-02	-0.1949E+00	0.6060E-01	-0.7880E-02	0.1803E-02	0.2088E-01
67	0.7151E-02	-0.2788E+00	0.6903E-01	-0.1140E-01	0.1789E-02	0.1823E-01
68	0.7204E-02	-0.3306E+00	0.7432E-01	-0.1388E-01	0.1417E-02	0.1600E-01
69	0.7234E-02	-0.3752E+00	0.7842E-01	-0.1643E-01	0.9872E-03	0.1343E-01
70	0.7257E-02	-0.4034E+00	0.8039E-01	-0.1834E-01	0.4666E-03	0.1131E-01
71	0.7308E-02	-0.4478E+00	0.7935E-01	-0.2260E-01	-0.1296E-02	0.6045E-02
133	-0.1227E-01	-0.4478E+00	0.5699E-02	-0.2256E-01	-0.1296E-02	0.6046E-02
134	-0.3201E-01	-0.4479E+00	-0.6815E-01	-0.2269E-01	-0.1296E-02	0.6063E-02
72	0.7313E-02	-0.4642E+00	0.6740E-01	-0.2643E-01	-0.4008E-02	0.1044E-02
73	0.7338E-02	-0.3450E+00	-0.2558E+00	-0.4348E-01	-0.2886E-01	-0.7655E-02
74	0.7340E-02	-0.3258E+00	-0.3347E+00	-0.4539E-01	-0.3204E-01	-0.7209E-02

75	0.7345E-02	-0.2928E+00	-0.5070E+00	-0.4922E-01	-0.3375E-01	-0.5348E-02
76	0.7349E-02	-0.2723E+00	-0.6723E+00	-0.5306E-01	-0.2945E-01	-0.2055E-02
77	0.7351E-02	-0.2692E+00	-0.7432E+00	-0.5497E-01	-0.2515E-01	0.1749E-03
78	0.7403E-02	-0.2756E+00	-0.8324E+00	-0.5172E-01	-0.1945E-01	0.2788E-02
9021	0.7773E-02	-0.5363E+00	-0.8871E+00	-0.2849E-01	0.1280E-01	0.1297E-01
79	0.8139E-02	-0.9152E+00	-0.3010E+00	-0.5265E-02	0.2327E-01	0.1202E-01
80	0.8277E-02	-0.1036E+01	-0.6118E-01	0.3559E-02	0.1978E-01	0.1033E-01
81	0.8311E-02	-0.1064E+01	-0.9614E-02	0.5740E-02	0.1823E-01	0.9963E-02
82	-0.4242E-01	-0.1064E+01	0.4931E-01	0.1149E-01	0.1073E-01	0.8334E-02
9022	-0.1284E+00	-0.8229E+00	0.5008E-01	0.2082E-01	-0.2104E-02	0.5091E-02
83	-0.2728E-01	-0.1172E+00	0.5083E-01	0.1550E-01	-0.3660E-02	0.1846E-02
84	-0.1907E-01	-0.8235E-01	0.5089E-01	0.1414E-01	-0.3211E-02	0.1553E-02
85	-0.1390E-01	-0.5946E-01	0.5094E-01	0.1307E-01	-0.2829E-02	0.1342E-02
86	-0.4509E-03	0.1546E-03	0.1257E-01	0.5172E-02	-0.2293E-03	0.2351E-03
87	-0.1223E-07	-0.1863E-07	-0.2395E-07	0.3153E-08	0.1201E-10	0.1471E-10

COUPLED MODE SHAPES (FOR SECONDARY MODE) MODE 21
FREQUENCY (HZ.) = 17.95951

MODAL DISP AT PRIMARY SYSTEM CONNETING DOF

DOF #	DISPLACEMENT
3041	-0.9717E-05
3042	0.0000E+00
3043	-0.1977E-04
3061	-0.2367E-04
3063	-0.6643E-04
3072	0.0000E+00
3081	-0.3790E-04
3103	-0.2392E-03
3121	-0.7390E-04
3122	0.0000E+00
3123	-0.3120E-03
3091	-0.4373E-04
3092	0.0000E+00
3093	-0.1482E-03

MODAL DISPLACEMENTS AT SECONDARY SYSTEM DOF

MODE	DX	DY	DZ	ROT-X	ROT-Y	ROT-Z
1	0.2618E-07	0.3740E-07	-0.1034E-08	0.3346E-08	-0.2294E-08	0.1096E-07
2	0.5167E-02	0.3297E-01	0.4948E-02	0.1326E-02	-0.1710E-02	0.1131E-01
3	0.1851E-01	0.3461E+00	0.3637E-01	-0.3657E-04	-0.2085E-02	0.2804E-01
4	0.1934E-01	0.1145E+01	0.8306E-01	-0.3216E-02	-0.1691E-02	0.2561E-01
5	0.1975E-01	0.1406E+01	0.1079E+00	-0.4816E-02	-0.2150E-02	0.1207E-01
9001	0.1525E-01	0.1425E+01	0.1096E+00	-0.5042E-02	-0.2135E-02	0.7477E-02
9002	0.8550E-02	0.1432E+01	0.1058E+00	-0.5279E-02	-0.2492E-02	0.2652E-02
6	0.7791E-02	0.1431E+01	0.9690E-01	-0.5546E-02	-0.2655E-02	-0.1614E-02
7	0.1482E-01	0.1433E+01	0.8419E-01	-0.5710E-02	-0.2859E-02	-0.4266E-02
9003	0.6205E+00	0.1433E+01	-0.1294E+00	-0.4679E-02	-0.6204E-02	-0.1969E-01
9004	0.9595E+00	0.1432E+01	-0.2005E+00	0.1300E-02	-0.9549E-02	0.6764E-02
9	-0.7005E-01	0.1430E+01	-0.3912E-01	0.6832E-02	-0.1269E-01	0.4926E-01
10	-0.4062E+00	0.1429E+01	0.6377E-02	0.7390E-02	-0.1347E-01	0.5505E-01
9005	-0.2106E+01	0.1426E+01	0.2196E+00	0.4376E-02	-0.1631E-01	0.6197E-01
9006	-0.2561E+01	0.1422E+01	0.1931E+00	-0.7188E-02	-0.1916E-01	-0.1726E-01
11	-0.1034E+01	0.1417E+01	-0.2745E+00	-0.2317E-01	-0.2200E-01	-0.7586E-01
12	-0.1414E+00	0.1415E+01	-0.5563E+00	-0.2945E-01	-0.2297E-01	-0.6911E-01
9007	0.2956E-01	0.1369E+01	-0.6019E+00	-0.3164E-01	-0.2300E-01	-0.9247E-01
9008	0.1590E+00	0.1239E+01	-0.6150E+00	-0.3358E-01	-0.2286E-01	-0.9482E-01
13	0.2073E+00	0.1058E+01	-0.5893E+00	-0.3529E-01	-0.2285E-01	-0.9568E-01
14	0.2074E+00	0.7927E+00	-0.5261E+00	-0.3763E-01	-0.2290E-01	-0.9487E-01
15	0.2076E+00	0.2371E+00	-0.3889E+00	-0.4272E-01	-0.2267E-01	-0.8709E-01
16	0.2080E+00	-0.8007E+00	-0.8863E-01	-0.5457E-01	-0.1952E-01	-0.6331E-01
17	0.1881E+00	-0.8964E+00	-0.3938E-01	-0.5786E-01	-0.1741E-01	-0.5602E-01
18	0.1094E+00	-0.8562E+00	0.3966E-01	-0.6051E-01	-0.1492E-01	-0.4704E-01
19	0.1659E-01	-0.7197E+00	0.1329E+00	-0.6135E-01	-0.1212E-01	-0.3724E-01
20	-0.1671E+00	-0.2752E+00	0.3177E+00	-0.4445E-01	-0.9134E-02	-0.3043E-01
21	-0.6417E-01	-0.2540E+00	0.2044E+00	-0.3217E-01	-0.1003E-01	-0.3591E-01
9009	0.1339E+01	-0.2519E+00	-0.2570E+00	0.5425E-02	-0.1325E-01	-0.2407E-01
9010	0.1466E+01	-0.2495E+00	0.2830E+00	0.1593E-01	-0.1646E-01	0.1796E-01
22	0.2830E+00	-0.2469E+00	0.6713E+00	-0.8675E-04	-0.1968E-01	0.3083E-01
23	0.3940E-01	-0.2464E+00	0.6467E+00	-0.5735E-02	-0.2036E-01	0.2567E-01
24	-0.2772E+00	-0.2452E+00	0.4700E+00	-0.1526E-01	-0.2167E-01	0.1317E-01
9011	-0.5485E+00	-0.2427E+00	-0.1983E+00	-0.2113E-01	-0.2435E-01	-0.7485E-02
9012	0.8753E-01	-0.2401E+00	-0.7378E+00	-0.8392E-02	-0.2703E-01	-0.1574E-01
25	0.5329E+00	-0.2373E+00	-0.6804E+00	0.1152E-01	-0.2970E-01	-0.8420E-02
26	0.5926E+00	-0.2365E+00	-0.5464E+00	0.1642E-01	-0.3047E-01	-0.4020E-02
9013	0.4514E+00	-0.2333E+00	0.1852E+00	0.2071E-01	-0.3331E-01	0.1130E-01
9014	-0.8469E-01	-0.2300E+00	0.6720E+00	0.3527E-02	-0.3615E-01	0.1600E-01
27	-0.4971E+00	-0.2266E+00	0.3310E+00	-0.2264E-01	-0.3899E-01	0.4742E-02
28	-0.5126E+00	-0.2253E+00	-0.3086E-01	-0.3176E-01	-0.4005E-01	-0.2557E-02
29	-0.3564E+00	-0.2232E+00	-0.7447E+00	-0.3656E-01	-0.4166E-01	-0.1245E-01
9015	0.2700E+00	-0.2192E+00	-0.176 E+01	-0.1151E-01	-0.4465E-01	-0.1753E-01
9016	0.7561E+00	-0.2150E+00	-0.1514E+01	0.2088E-01	-0.4764E-01	-0.6532E-02
30	0.7754E+00	-0.2106E+00	-0.7983E+00	0.4624E-02	-0.5064E-01	0.3020E-02
31	0.7723E+00	-0.2105E+00	-0.7941E+00	0.3158E-02	-0.5072E-01	0.3073E-02
32	0.7079E+00	-0.2076E+00	-0.7959E+00	-0.5115E-02	-0.5094E-01	0.3174E-02
35	0.5689E+00	-0.1820E+00	-0.8046E+00	-0.1250E-01	-0.5098E-01	0.3067E-02
37	0.1412E+00	-0.4423E-01	-0.8042E+00	-0.1717E-01	-0.4993E-01	0.2660E-02
9017	-0.1193E+01	0.4153E+00	-0.8016E+00	-0.9368E-02	-0.2711E-01	0.1099E-02
9018	-0.1429E+01	0.4992E+00	-0.7987E+00	0.4420E-02	0.1330E-01	-0.4617E-03
38	-0.4545E+00	0.1733E+00	-0.7953E+00	0.1401E-01	0.4208E-01	-0.2022E-02
39	0.2369E-02	0.2175E-01	-0.7941E+00	0.1489E-01	0.4514E-01	-0.2523E-02
9019	0.1354E+01	-0.4187E+00	-0.7895E+00	0.8456E-02	0.2614E-01	-0.4165E-02
40	0.1461E+01	-0.4537E+00	-0.7844E+00	-0.7035E-02	-0.2183E-01	-0.5807E-02
41	0.2209E+00	-0.5265E-01	-0.7796E+00	-0.1924E-01	-0.5927E-01	-0.7226E-02
43	-0.1529E-01	-0.3289E-02	-0.5348E+00	-0.2202E-01	-0.6599E-01	-0.7360E-02

44	-0.1531E-01	-0.1392E-01	-0.4385E+00	-0.2257E-01	-0.6589E-01	-0.7458E-02
45	-0.1528E-01	-0.4294E-01	-0.1675E+00	-0.2404E-01	-0.6344E-01	-0.7672E-02
9020	-0.1590E-01	-0.2478E+00	0.1161E+01	-0.3500E-01	-0.3000E-01	-0.5547E-02
46	-0.1641E-01	-0.3172E+00	0.1549E+01	-0.4596E-01	0.7493E-03	0.1164E-02
47	-0.1646E-01	-0.3124E+00	0.1543E+01	-0.4711E-01	0.3241E-02	0.2012E-02
91	-0.2088E-01	-0.3122E+00	0.1397E+01	-0.5196E-01	0.5475E-02	0.1984E-03
92	0.4306E-01	-0.3110E+00	0.6495E+00	-0.7696E-01	0.2155E-01	-0.1070E-01
93	0.2010E+00	0.8671E-02	0.3400E+00	-0.8696E-01	0.3202E-01	-0.1853E-01
94	0.3102E+00	0.2939E+00	0.3396E+00	-0.8756E-01	0.3507E-01	-0.2143E-01
95	0.4969E+00	0.7316E+00	0.3391E+00	-0.8567E-01	0.3919E-01	-0.2592E-01
96	0.7025E+00	0.1151E+01	0.3384E+00	-0.8075E-01	0.4286E-01	-0.3040E-01
97	0.7132E+00	0.1171E+01	0.3384E+00	-0.8043E-01	0.4304E-01	-0.3062E-01
98	0.7561E+00	0.1454E+01	0.6038E+00	-0.6616E-01	0.4079E-01	-0.3626E-01
100	0.5853E+00	0.1454E+01	0.8912E+00	-0.6319E-01	0.5283E-01	-0.3958E-01
101	0.4633E+00	0.1454E+01	0.1078E+01	-0.6290E-01	0.5553E-01	-0.4175E-01
102	0.2995E+00	0.1453E+01	0.1264E+01	-0.3974E-01	0.5624E-01	-0.4513E-01
113	0.8189E+00	0.2123E+01	0.1079E+01	-0.1721E+00	0.6371E-01	-0.3399E-01
114	0.1100E+01	0.3001E+01	0.1080E+01	-0.2247E+00	0.6711E-01	-0.2676E-01
115	0.1387E+01	0.4005E+01	0.1081E+01	-0.2331E+00	0.6760E-01	-0.1956E-01
116	0.1806E+01	0.5340E+01	0.1082E+01	-0.1720E+00	0.6550E-01	-0.8940E-02
118	0.1959E+01	0.5642E+01	0.8574E+00	-0.5573E-01	0.6148E-01	-0.1436E-02
9023	0.1425E+01	0.5662E+01	0.5282E+01	0.2857E+00	0.3601E-01	0.3853E-01
120	0.6406E-01	0.5674E+01	0.1365E+02	0.2734E+00	0.1053E-01	0.4600E-01
122	-0.1601E-01	0.5103E+01	0.1444E+02	0.2536E+00	0.7704E-02	0.4124E-01
124	0.1249E-01	0.4028E+01	0.1444E+02	0.2630E+00	0.6261E-02	0.3562E-01
125	0.6854E-01	0.9083E+00	0.1444E+02	0.3775E+00	0.5005E-02	0.2217E-01
127	0.1214E+00	-0.2488E-01	0.1343E+02	0.4849E+00	0.4210E-02	0.1676E-01
129	0.2608E+00	-0.1468E-01	0.5434E+00	0.3080E+00	0.2482E-02	-0.4360E-02
9024	0.1113E+00	-0.7341E-02	-0.1164E+01	-0.5185E-01	0.1241E-02	-0.9377E-02
130	0.6002E-08	-0.1605E-06	-0.1669E-06	-0.1928E-07	0.7048E-10	-0.1248E-08
48	-0.1658E-01	-0.3006E+00	0.1535E+01	-0.3504E-01	0.2730E-02	0.7136E-02
49	-0.1679E-01	-0.2410E+00	0.1522E+01	-0.1492E-01	0.3753E-02	0.1832E-01
50	-0.1700E-01	-0.1173E+00	0.1498E+01	0.5195E-02	0.6304E-02	0.3269E-01
51	-0.1706E-01	-0.6534E-01	0.1488E+01	0.1123E-01	0.7213E-02	0.3759E-01
52	-0.1728E-01	0.1926E+00	0.1439E+01	0.3334E-01	0.1101E-01	0.5789E-01
53	-0.1827E-01	0.2561E+01	0.9687E+00	0.1309E+00	0.3685E-01	0.1271E+00
54	-0.1970E-01	0.7445E+01	-0.1206E+00	0.2748E+00	0.2749E-01	0.1586E+00
55	-0.1973E-01	0.7964E+01	-0.1416E+00	0.2778E+00	0.2705E-01	0.1587E+00
56	0.5850E-01	0.7455E+01	-0.2326E+00	0.3035E+00	0.1658E-01	0.1609E+00
57	0.9272E-01	0.6764E+01	-0.2329E+00	0.3086E+00	0.1428E-01	0.1612E+00
58	0.3197E+00	0.6141E+01	-0.2332E+00	0.3132E+00	0.1224E-01	0.1653E+00
59	0.1521E+00	0.5196E+01	-0.2336E+00	0.3154E+00	0.8761E-02	0.1684E+00
103	0.1521E+00	0.4620E+01	-0.2174E+00	0.3103E+00	-0.4768E-02	0.1285E+00
104	0.1522E+00	0.3662E+01	-0.4059E+00	0.2894E+00	-0.2666E-01	0.1185E+00
105	0.1522E+00	0.3244E+01	-0.4818E+00	0.2826E+00	-0.2294E-01	0.1611E+00
106	0.1522E+00	0.2695E+01	-0.5416E+00	0.2755E+00	-0.1683E-01	0.2050E+00
107	0.1522E+00	0.7192E-01	-0.6295E+00	0.2500E+00	-0.1358E-02	0.2008E+00
109	0.1513E+00	-0.5833E+00	-0.6308E+00	0.2458E+00	-0.3483E-03	0.1597E+00
111	0.1523E+00	-0.1371E+01	-0.6308E+00	0.2160E+00	0.1061E-02	0.8712E-01
112	0.1543E+00	-0.1664E+01	-0.6308E+00	0.1961E+00	0.1804E-02	0.5665E-01
60	0.1735E+00	0.4244E+01	-0.2339E+00	0.3160E+00	0.5003E-02	0.1725E+00
61	0.1829E+00	0.3295E+01	-0.2343E+00	0.3135E+00	0.7683E-03	0.1766E+00
62	0.1831E+00	0.3216E+01	-0.2343E+00	0.3131E+00	0.3945E-03	0.1769E+00
63	0.1622E+00	0.1385E+01	-0.2728E+00	0.2935E+00	-0.1492E-01	0.1795E+00
64	0.1617E+00	-0.5112E+00	-0.4780E+00	0.2546E+00	-0.1807E-01	0.1553E+00
65	0.1629E+00	-0.1236E+01	-0.5615E+00	0.2369E+00	-0.1345E-01	0.1301E+00
131	-0.2585E+00	-0.1236E+01	0.2085E+00	0.2374E+00	-0.1345E-01	0.1302E+00
132	-0.6839E+00	-0.1237E+01	0.9834E+00	0.2380E+00	-0.1345E-01	0.1306E+00
66	0.1622E+00	-0.1818E+01	-0.6125E+00	0.2195E+00	-0.7050E-02	0.1012E+00
67	0.1616E+00	-0.2194E+01	-0.6311E+00	0.2047E+00	-0.1761E-02	0.7448E-01
68	0.1611E+00	-0.2389E+01	-0.6307E+00	0.1942E+00	0.1870E-02	0.5440E-01
69	0.1607E+00	-0.2522E+01	-0.6196E+00	0.1829E+00	0.5410E-02	0.3283E-01
70	0.1604E+00	-0.2578E+01	-0.6044E+00	0.1745E+00	0.7973E-02	0.1596E-01
71	0.1597E+00	-0.2562E+01	-0.5505E+00	0.1556E+00	0.1336E-01	-0.2357E-01
133	0.2344E+00	-0.2563E+01	-0.4312E-01	0.1561E+00	0.1336E-01	-0.2340E-01
134	0.3114E+00	-0.2564E+01	0.4659E+00	0.1564E+00	0.1336E-01	-0.2359E-01
72	0.1599E+00	-0.2334E+01	-0.4706E+00	0.1335E+00	0.1921E-01	-0.6293E-01
73	0.1606E+00	0.8586E-01	0.3657E+00	0.3499E-01	0.6048E-01	-0.1186E+00
74	0.1607E+00	0.3793E+00	0.5272E+00	0.2393E-01	0.6535E-01	-0.1125E+00
75	0.1609E+00	0.9059E+00	0.8728E+00	0.1776E-02	0.6826E-01	-0.9305E-01
76	0.1610E+00	0.1310E+01	0.1210E+01	-0.2037E-01	0.6249E-01	-0.6413E-01
77	0.1611E+00	0.1452E+01	0.1363E+01	-0.3144E-01	0.5652E-01	-0.4633E-01
78	0.1610E+00	0.1582E+01	0.1568E+01	-0.2527E-01	0.4595E-01	-0.1955E-01
9021	0.1606E+00	-0.4072E-01	0.1918E+01	0.1878E-01	-0.1725E-01	0.1151E+00
79	0.1600E+00	-0.4077E+01	0.9397E+00	0.6283E-01	-0.4160E-01	0.1492E+00
80	0.1598E+00	-0.5656E+01	0.5058E+00	0.7957E-01	-0.3597E-01	0.1394E+00
81	0.1598E+00	-0.6026E+01	0.4119E+00	0.8370E-01	-0.3312E-01	0.1358E+00
82	0.2505E+00	-0.6173E+01	0.3054E+00	0.9633E-01	-0.1874E-01	0.1217E+00
9022	0.3555E+00	-0.3405E+01	0.3037E+00	0.1148E+00	0.7111E-02	0.7391E-01
83	0.5911E-01	-0.6755E+00	0.3018E+00	0.8650E-01	0.1188E-01	0.2613E-01
84	0.3205E-01	-0.4794E+00	0.3016E+00	0.8065E-01	0.1117E-01	0.2178E-01
85	0.1368E-01	-0.3479E+00	0.3015E+00	0.7612E-01	0.1054E-01	0.1867E-01
86	-0.4304E-02	0.3842E-02	0.1020E+00	0.3794E-01	0.4440E-02	0.3354E-02
87	0.2377E-07	-0.7181E-07	0.6393E-07	0.2932E-07	-0.2183E-08	0.8747E-10

COUPLED MODE SHAPES (FOR SECONDARY MODE) MODE 22
FREQUENCY (HZ.) = 18.25603

MODAL DISP AT PRIMARY SYSTEM CONNETING DOF

DOF #	DISPLACEMENT
3041	0.5530E-05
3042	0.0000E+00
3043	-0.2378E-04
3061	0.9513E-05
3063	-0.7991E-04
3072	0.0000E+00
3081	0.1036E-04
3103	-0.2877E-03

3121	0.6503E-05
3122	0.0000E+00
3123	-0.3754E-03
3091	0.9923E-05
3092	0.0000E+00
3093	-0.1782E-03

MODAL DISPLACEMENTS AT SECONDARY SYSTEM DOF

NODE	DX	DY	DZ	ROT-X	ROT-Y	ROT-Z
1	-0.1061E-06	-0.1461E-06	0.1916E-08	-0.1308E-07	0.9835E-08	-0.4235E-07
2	-0.2218E-01	-0.1277E+00	-0.2131E-01	-0.5263E-02	0.7422E-02	-0.4363E-02
3	-0.5087E-01	-0.1335E+01	-0.1617E-00	-0.7117E-04	0.9604E-02	-0.1078E+00
4	-0.8423E-01	-0.4385E+01	-0.3782E+00	0.1231E-01	0.7358E-02	-0.9653E-01
5	-0.8590E-01	-0.5353E+01	-0.4790E+00	0.1853E-01	0.8118E-02	-0.4292E-01
9001	-0.7051E-01	-0.5418E+01	-0.4849E+00	0.1944E-01	0.8519E-02	-0.2484E-01
9002	-0.5046E-01	-0.5440E+01	-0.4691E+00	0.2041E-01	0.8843E-02	-0.6641E-02
6	-0.5606E-01	-0.5441E+01	-0.4344E+00	0.2149E-01	0.9224E-02	0.1097E-01
7	-0.9395E-01	-0.5441E+01	-0.3451E+00	0.2214E-01	0.9742E-02	0.2129E-01
9003	-0.2599E+01	-0.5441E+01	0.4512E+00	0.1665E-01	0.1822E-01	0.7866E-01
9004	-0.3886E+01	-0.5438E+01	0.7534E+00	-0.4242E-02	0.2669E-01	-0.2974E-01
9	0.2661E+00	-0.5430E+01	0.1504E+00	-0.2619E-01	0.3517E-01	-0.1943E+00
10	0.1587E+01	-0.5428E+01	-0.2457E-01	-0.3852E-01	0.3664E-01	-0.2158E+00
9005	0.8173E+01	-0.5415E+01	-0.8639E+00	-0.1801E-01	0.4384E-01	-0.1600E+00
9006	0.9803E+01	-0.5398E+01	-0.8241E+00	0.2460E-01	0.5104E-01	0.7173E-01
11	0.3793E+01	-0.5379E+01	0.8224E+00	0.8183E-01	0.5824E-01	0.2934E+00
12	0.3611E+00	-0.5372E+01	0.1816E+01	0.1036E+00	0.6071E-01	0.3407E+00
9007	-0.2913E+00	-0.5195E+01	0.1986E+01	0.1111E+00	0.6063E-01	0.3522E+00
9008	-0.7834E+00	-0.4700E+01	0.2060E+01	0.1177E+00	0.5998E-01	0.3596E+00
13	-0.9663E+00	-0.4017E+01	0.2008E+01	0.1236E+00	0.5977E-01	0.3612E+00
14	-0.9667E+00	-0.3017E+01	0.1843E+01	0.1315E+00	0.5982E-01	0.3566E+00
15	-0.9675E+00	-0.9394E+00	0.1485E+01	0.1489E+00	0.5887E-01	0.3530E+00
16	-0.9691E+00	0.2824E+01	0.7205E+00	0.1892E+00	0.4776E-01	0.2232E+00
17	-0.9222E+00	0.3155E+01	0.6027E+00	0.2009E+00	0.4042E-01	0.1928E+00
18	-0.7470E+00	0.2996E+01	0.4262E+00	0.2081E+00	0.3197E-01	0.1541E+00
19	-0.5600E+00	0.2454E+01	0.2376E+00	0.2064E+00	0.2302E-01	0.1112E+00
20	-0.2614E+00	0.7166E+00	-0.6532E-01	0.1265E+00	0.1312E-01	0.7126E-01
21	-0.5466E+00	0.6410E+00	0.2517E+00	0.1472E-01	0.1598E-01	0.9223E-01
9009	-0.4227E+01	0.6328E+00	0.8278E-01	-0.5905E-01	0.2005E-01	0.6045E-01
9010	-0.4238E+01	0.6240E+00	-0.2613E-01	-0.5072E-01	0.2412E-01	-0.5911E-01
22	-0.7663E+00	0.6147E+00	-0.2841E-01	0.4445E-01	0.2830E-01	-0.8153E-01
23	-0.1476E+00	0.6127E+00	-0.2366E+01	0.6675E-01	0.2906E-01	-0.6146E-01
24	0.4921E+00	0.6086E+00	-0.9901E+00	0.9725E-01	0.3072E-01	-0.1864E-01
9011	0.9848E-01	0.6000E+00	0.2354E+01	0.8495E-01	0.3411E-01	0.3349E-01
9012	-0.1183E+01	0.5909E+00	0.3850E+01	-0.3668E-02	0.3751E-01	0.3411E-01
25	-0.1767E+01	0.5816E+00	0.2135E+01	-0.9029E-01	0.4090E-01	-0.3087E-02
26	-0.1672E+01	0.5789E+00	0.1202E+01	-0.1043E+00	0.4186E-01	-0.1670E-01
9013	-0.4195E+00	0.5684E+00	-0.2501E+01	-0.8425E-01	0.4546E-01	-0.4740E-01
9014	0.1167E+01	0.5576E+00	-0.3826E+01	0.1697E-01	0.4906E-01	-0.3337E-01
27	0.1557E+01	0.5464E+00	-0.1464E+01	0.1040E+00	0.5266E-01	0.1411E-01
28	0.1237E+01	0.5422E+00	0.1361E-01	0.1160E+00	0.5401E-01	0.3370E-01
29	0.3385E+00	0.5355E+00	0.2284E+01	0.1039E+00	0.5604E-01	0.5297E-01
9015	-0.1591E+01	0.5227E+00	0.4619E+01	0.8585E-02	0.5983E-01	0.3851E-01
9016	-0.2038E+01	0.5096E+00	0.3029E+01	-0.7826E-01	0.6363E-01	-0.1674E-01
30	-0.6256E+00	0.4960E+00	0.5290E+00	-0.2169E-01	0.6742E-01	-0.4872E-01
31	-0.5766E+00	0.4957E+00	0.5088E+00	-0.1746E-01	0.6752E-01	-0.4876E-01
32	-0.3726E+00	0.4964E+00	0.4919E+00	0.5953E-02	0.6772E-01	-0.4849E-01
35	-0.1397E+00	0.4469E+00	0.5073E+00	0.2603E-01	0.6741E-01	-0.4781E-01
37	0.4214E+00	0.1465E+00	0.5063E+00	0.3591E-01	0.6455E-01	-0.4583E-01
9017	0.2009E+01	-0.5897E+00	0.5019E+00	0.9085E-02	0.2667E-01	-0.3820E-01
9018	0.1977E+01	-0.4816E+00	0.4972E+00	-0.1376E-01	-0.2748E-01	-0.3657E-01
38	0.5420E+00	0.1288E+00	0.4922E+00	-0.2025E-01	-0.5203E-01	-0.2295E-01
39	0.1326E-01	0.1288E+00	0.4906E+00	-0.1780E-01	-0.4839E-01	-0.2050E-01
9019	-0.1154E+01	0.6932E+00	0.4847E+00	-0.2116E-02	-0.1690E-01	-0.1244E-01
40	-0.1102E+01	0.4814E+00	0.4785E+00	0.1281E-01	0.1778E-01	-0.4457E-02
41	-0.3579E+00	0.5717E-01	0.4729E+00	0.1311E-01	0.2757E-01	0.2477E-02
43	-0.2575E+00	0.2608E-01	0.3772E+00	0.1000E-01	0.2112E-01	0.4741E-02
44	-0.2574E+00	0.3307E-01	0.3467E+00	0.9359E-02	0.1910E-01	0.5129E-02
45	-0.2573E+00	0.5480E-01	0.2838E+00	0.7654E-02	0.1125E-01	0.6080E-02
9020	-0.2562E+00	0.2533E+00	0.7239E+00	-0.5103E-02	-0.3174E-01	0.5435E-02
46	-0.2550E+00	0.2582E+00	0.1607E+01	-0.1786E-01	-0.2184E-01	-0.6784E-02
47	-0.2548E+00	0.2352E+00	0.1668E+01	-0.1920E-01	-0.1814E-01	-0.8613E-02
91	-0.2285E+00	0.2353E+00	0.1608E+01	-0.2089E-01	-0.1589E-01	-0.9061E-02
92	-0.1134E+00	0.2362E+00	0.1325E+01	-0.2700E-01	-0.5459E-03	-0.1080E-01
93	-0.5137E-01	0.3348E+00	0.1223E+01	-0.2392E-01	0.8900E-02	-0.1173E-01
94	-0.1720E-01	0.4097E+00	0.1223E+01	-0.2136E-01	0.1195E-01	-0.1156E-01
95	0.5395E-01	0.5048E+00	0.1223E+01	-0.1548E-01	0.1622E-01	-0.1128E-01
96	0.1451E+00	0.5646E+00	0.1222E+01	-0.7543E-02	0.1997E-01	-0.1101E-01
97	0.1501E+00	0.5665E+00	0.1222E+01	-0.7100E-02	0.2015E-01	-0.1100E-01
98	0.1964E+00	0.5666E+00	0.1201E+01	0.1164E-01	0.2621E-01	-0.1022E-01
100	0.1502E+00	0.5668E+00	0.1193E+01	0.1657E-01	0.2988E-01	-0.1053E-01
101	0.1182E+00	0.5670E+00	0.1079E+01	0.1805E-01	0.3232E-01	-0.1094E-01
102	0.7535E-01	0.5667E+00	0.9335E+00	0.2499E-01	0.3404E-01	-0.1167E-01
113	0.3235E+00	0.5469E+00	0.1080E+01	-0.1570E-01	0.3652E-01	-0.8115E-02
114	0.4840E+00	0.6618E+00	0.1080E+01	-0.3388E-01	0.3838E-01	-0.5487E-02
115	0.6487E+00	0.8275E+00	0.1080E+01	-0.4004E-01	0.3881E-01	-0.2860E-02
116	0.8900E+00	0.1062E+01	0.1081E+01	-0.2874E-01	0.3797E-01	0.1006E-02
118	0.9678E+00	0.1107E+01	0.1053E+01	-0.2042E-32	0.3616E-01	0.3814E-02
9023	0.6357E+00	0.1113E+01	0.2256E+01	0.6346E-01	0.2417E-01	0.1951E-01
120	-0.1705E-01	0.1118E+01	0.3897E+01	0.4575E-01	0.1219E-01	0.2144E-01
122	-0.3792E-01	0.1025E+01	0.3993E+01	0.4150E-01	0.1084E-01	0.1910E-01
124	0.5973E-02	0.8459E+00	0.3993E+01	0.4583E-01	0.1010E-01	0.1637E-01
125	0.1028E+00	0.216[illegible]+00	0.3992E+01	0.8672E-01	0.9029E-02	0.9836E-02
127	0.1404E+00	-0.8442E-02	0.3742E+01	0.1245E+00	0.8255E-02	0.7159E-02
129	0.1770E+00	-0.4980E-02	0.1634E+00	0.8859E-01	0.4867E-02	-0.3734E-02
9024	0.7193E-01	-0.2490E-02	-0.3311E+00	-0.1462E-01	0.2433E-02	-0.6177E-02
130	0.3612E-08	-0.5446E-07	-0.4781E-07	-0.5503E-08	0.1382E-09	-0.7903E-09
48	-0.2547E+00	0.2074E+00	0.1722E+01	-0.1566E-01	-0.1691E-01	-0.9091E-02
49	-0.2546E+00	0.1616E+00	0.1799E+01	-0.9762E-02	-0.1267E-01	-0.8096E-02

50	-0.2544E+00	0.1265E+00	0.1849E+01	-0.3862E-02	-0.6676E-02	-0.4772E-02
51	-0.2543E+00	0.1198E+00	0.1857E+01	-0.2092E-02	-0.4726E-02	-0.3303E-02
52	-0.2541E+00	0.1180E+00	0.1863E+01	0.4391E-02	0.2895E-02	0.3944E-03
53	-0.2530E+00	0.5965E+00	0.1809E+01	0.3301E-01	0.3252E-01	0.3162E-01
54	-0.2512E+00	0.1992E+01	-0.4660E-02	0.7519E-01	0.3524E-01	0.4115E-01
55	-0.2512E+00	0.2023E+01	-0.3082E-01	0.7607E-01	0.3460E-01	0.4103E-01
56	-0.1470E+00	0.1870E+01	-0.1472E+00	0.8409E-01	0.2260E-01	0.3946E-01
57	-0.9905E-01	0.1679E+01	-0.1473E+00	0.8578E-01	0.1939E-01	0.3938E-01
58	-0.6359E-01	0.1505E+01	-0.1474E+00	0.8709E-01	0.1646E-01	0.3930E-01
59	-0.2085E-01	0.1241E+01	-0.1475E+00	0.8859E-01	0.1239E-01	0.3918E-01
103	-0.2081E-01	0.1114E+01	-0.1129E+00	0.8837E-01	0.2880E-02	0.2436E-01
104	-0.2027E-01	0.9997E+00	-0.1930E+00	0.8749E-01	-0.1414E-01	0.1347E-01
105	-0.2009E-01	0.9437E+00	-0.2341E+00	0.8720E-01	-0.1249E-01	0.2514E-01
106	-0.1991E-01	0.8479E+00	-0.2663E+00	0.8692E-01	-0.8784E-02	0.3803E-01
107	-0.1921E-01	0.3107E+00	-0.2675E+00	0.8582E-01	0.9249E-02	0.4191E-01
109	-0.1774E-02	0.1233E+00	-0.2515E+00	0.8559E-01	0.1197E-01	0.3187E-01
111	0.3366E-01	-0.1559E+00	-0.2515E+00	0.7842E-01	0.6437E-02	0.1406E-01
112	0.3927E-01	-0.2637E+00	-0.2515E+00	0.7322E-01	0.5267E-03	0.6582E-02
60	0.1023E-01	0.9725E+00	-0.1476E+00	0.8948E-01	0.8908E-02	0.3940E-01
61	0.3168E-01	0.7327E+00	-0.1477E+00	0.8968E-01	0.5904E-02	0.3962E-01
62	0.3307E-01	0.6802E+00	-0.1477E+00	0.8966E-01	0.5675E-02	0.3964E-01
63	0.4135E-01	0.1967E+00	-0.1473E+00	0.8736E-01	-0.2055E-02	0.3881E-01
64	0.4088E-01	-0.2015E+00	-0.1936E+00	0.8217E-01	-0.5018E-02	0.3133E-01
65	0.4066E-01	-0.3442E+00	-0.2188E+00	0.7980E-01	-0.4492E-02	0.2475E-01
131	-0.1960E-01	-0.3443E+00	0.4083E-01	0.8000E-01	-0.4492E-02	0.2478E-01
132	-0.1205E+00	-0.3444E+00	0.3019E+00	0.8019E-01	-0.4492E-02	0.2466E-01
66	0.4031E-01	-0.4498E+00	-0.2385E+00	0.7691E-01	-0.3106E-02	0.1730E-01
67	0.4002E-01	-0.5096E+00	-0.2488E+00	0.7445E-01	-0.1491E-02	0.1075E-01
68	0.3981E-01	-0.5349E+00	-0.2515E+00	0.7271E-01	-0.1155E-03	0.6028E-02
69	0.3962E-01	-0.5458E+00	-0.2502E+00	0.7074E-01	0.1190E-02	0.1091E-02
70	0.3948E-01	-0.5441E+00	-0.2464E+00	0.6926E-01	0.2296E-02	-0.2688E-02
71	0.3917E-01	-0.5095E+00	-0.2285E+00	0.6597E-01	0.5091E-02	-0.1129E-01
133	0.7529E-01	-0.5098E+00	-0.1351E-01	0.6618E-01	0.5091E-02	-0.1125E-01
134	0.1122E+00	-0.5097E+00	0.2023E+00	0.6631E-01	0.5091E-02	-0.1132E-01
72	0.3914E-01	-0.4267E+00	-0.1955E+00	0.6134E-01	0.8587E-02	-0.1989E-01
73	0.3901E-01	0.2216E+00	0.2788E-30	0.4075E-01	0.3706E-01	-0.3016E-01
74	0.3899E-01	0.2959E+00	0.3811E+00	0.3844E-01	0.4148E-01	-0.2846E-01
75	0.3895E-01	0.4284E+00	0.6024E+00	0.3381E-01	0.4361E-01	-0.2340E-01
76	0.3891E-01	0.5300E+00	0.8174E+00	0.2918E-01	0.3925E-01	-0.1639E-01
77	0.3889E-01	0.5656E+00	0.9127E+00	0.2687E-01	0.3476E-01	-0.1223E-01
78	0.3884E-01	0.6031E+00	0.1018E+01	0.2659E-01	0.2777E-01	-0.6261E-02
9021	0.3844E-01	0.2768E+00	0.1198E+01	0.2464E-01	-0.1363E-01	0.2562E-01
79	0.3803E-01	-0.6620E+00	0.4997E+00	0.2268E-01	-0.2888E-01	0.3575E-01
80	0.3787E-01	-0.1044E+01	0.1997E+00	0.2193E-01	-0.2486E-01	0.3391E-01
81	0.3783E-01	-0.1134E+01	0.1348E+00	0.2175E-01	-0.2293E-01	0.3312E-01
82	0.1014E+00	-0.1172E+01	0.6072E-01	0.2176E-01	-0.1334E-01	0.3002E-01
9022	0.1970E+00	-0.6217E+00	0.5963E-01	0.2107E-01	0.3525E-02	0.1817E-01
83	0.3796E-01	-0.1289E+00	0.5852E-01	0.1598E-01	0.6132E-02	0.6310E-02
84	0.2402E-01	-0.9245E-01	0.5842E-01	0.1512E-01	0.5605E-02	0.5231E-02
85	0.1488E-01	-0.6769E-01	0.5835E-01	0.1445E-01	0.5148E-02	0.4459E-02
86	-0.5915E-03	0.6565E-03	0.2302E-01	0.8150E-02	0.1486E-02	0.7216E-03
87	0.1590E-07	-0.9124E-08	0.3679E-07	0.6900E-08	-0.7291E-09	-0.1072E-09

COUPLED MODE SHAPES (FOR SECONDARY MODE) MODE 23
FREQUENCY (HZ.) = 19.64076

MODAL DISP AT PRIMARY SYSTEM CONNETING DOF

DOF #	DISPLACEMENT
3041	0.6671E-05
3042	0.0000E+00
3043	0.1807E-04
3061	-0.3888E-05
3063	0.6072E-04
3072	0.0000E+00
3081	-0.3105E-04
3103	0.2186E-03
3121	-0.1302E-03
3122	0.0000E+00
3123	0.2852E-03
3091	-0.4615E-04
3092	0.0000E+00
3093	0.1354E-03

MODAL DISPLACEMENTS AT SECONDARY SYSTEM DOF

NODE	DX	DY	DZ	ROT-X	ROT-Y	ROT-Z
1	-0.3740E-07	-0.6381E-07	-0.2963E-07	-0.3399E-08	0.1429E-07	-0.1952E-07
2	-0.3309E-01	-0.5266E-01	-0.3302E-01	0.5396E-03	0.1280E-01	-0.2059E-01
3	-0.1538E+00	-0.5954E+00	-0.3709E+00	0.9825E-02	0.3096E-01	-0.5167E-01
4	-0.1550E+00	-0.2109E+01	-0.1332E+01	0.2725E-01	0.3651E-01	-0.5138E-01
5	-0.1555E+00	-0.2675E+01	-0.1788E+01	0.3601E-01	0.3101E-01	-0.3136E-01
9001	-0.1421E+00	-0.2728E+01	-0.1825E+01	0.3747E-01	0.2901E-01	-0.2461E-01
9002	-0.1135E+00	-0.2758E+01	-0.1811E+01	0.3931E-01	0.2709E-01	-0.1783E-01
6	-0.8675E-01	-0.2765E+01	-0.1749E+01	0.4125E-01	0.2553E-01	-0.1124E-01
7	-0.6635E-01	-0.2765E+01	-0.1655E+01	0.4240E-01	0.2394E-01	-0.7342E-02
9003	-0.5364E+00	-0.2765E+01	0.2516E-01	0.4250E-01	-0.2070E-02	0.2158E-01
9004	-0.9913E+00	-0.2762E+01	0.1031E+01	0.5903E-02	-0.2808E-01	-0.4542E-02
9	0.1008E+00	-0.2757E+01	0.2661E+00	-0.4676E-01	-0.5408E-01	-0.5582E-01
10	0.4845E+00	-0.2755E+01	-0.5955E-01	-0.5529E-01	-0.5859E-01	-0.6259E-01
9005	0.2363E+01	-0.2747E+01	-0.2034E+01	-0.5762E-01	-0.8068E-01	-0.4102E-01
9006	0.2396E+01	-0.2736E+01	-0.3129E+01	-0.7574E-02	-0.102AE+00	0.4516E-01
11	-0.5336E+00	-0.2724E+01	-0.2604E+01	0.3297E-01	-0.1249E+00	0.1385E+00
12	-0.2172E+01	-0.2720E+01	-0.2213E+01	0.3358E-01	-0.1325E+00	0.1662E+00
9007	-0.2492E+01	-0.2632E+01	-0.2104E+01	0.3185E-01	-0.1337E+00	0.1748E+00
9008	-0.2739E+01	-0.2384E+01	-0.1876E+01	0.2990E-01	-0.1347E+00	0.1816E+00
13	-0.2831E+01	-0.2036E+01	-0.1607E+01	0.2744E-01	-0.1353E+00	0.1851E+00

14	-0.2831E+01	-0.1520E+01	-0.1233E+01	0.2489E-01	-0.1353E+00	0.1843E+00
15	-0.2831E+01	-0.4401E+00	-0.4256E+00	0.1346E-01	-0.1322E+00	0.1678E+00
16	-0.2830E+01	0.1445E+01	0.1283E+01	0.3520E-02	-0.1076E+00	0.1000E+00
17	-0.2938E+01	0.1673E+01	0.1551E+01	0.2899E-02	-0.9251E-01	0.7307E-01
18	-0.3342E+01	0.1937E+01	0.1956E+01	-0.8089E-02	-0.7284E-01	0.2833E-01
19	-0.3753E+01	0.2013E+01	0.2369E+01	-0.2146E-01	-0.4667E-01	-0.3715E-03
20	-0.4187E+01	0.1959E+00	0.2809E+01	-0.5301E-01	-0.1192E-01	-0.2142E+00
21	-0.3275E+01	-0.9050E-01	0.2646E+01	-0.5131E-01	-0.9459E-02	-0.2697E+00
9009	0.8297E+01	-0.9048E-01	0.4504E+00	-0.5400E-01	-0.3111E-01	-0.2228E+00
9010	0.1084E+02	-0.9037E-01	-0.1207E+01	-0.2053E-01	-0.5276E-01	0.1086E+00
22	0.2216E+01	-0.9017E-01	-0.9717E+00	0.2995E-01	-0.7441E-01	0.2406E+00
23	0.2898E+00	-0.9012E-01	-0.6797E+00	0.3825E-01	-0.7900E-01	0.2062E+00
24	-0.2345E+01	-0.8998E-01	0.3266E-01	0.4652E-01	-0.8784E-01	0.1153E+00
9011	-0.3282E+01	-0.8966E-01	0.1407E+01	0.2752E-01	-0.1059E+00	-0.5202E-01
9012	0.1606E+00	-0.8928E-01	0.1573E+01	-0.1880E-01	-0.1239E+00	-0.1305E+00
25	0.3964E+01	-0.8884E-01	0.3286E+00	-0.4894E-01	-0.1419E+00	-0.7448E-01
26	0.4501E+01	-0.8870E-01	-0.1463E+00	-0.5012E-01	-0.1471E+00	-0.3740E-01
9013	0.3424E+01	-0.8814E-01	-0.1601E+01	-0.2378E-01	-0.1662E+00	0.9226E-01
9014	-0.9421E+00	-0.8751E-01	-0.1601E+01	0.2239E-01	-0.1853E+00	0.1276E+00
27	-0.4024E+01	-0.8682E-01	-0.4320E+00	0.3256E-01	-0.2045E+00	0.2544E-01
28	-0.3951E+01	-0.8654E-01	-0.7447E-01	0.1920E-01	-0.2116E+00	-0.3718E-01
29	-0.2349E+01	-0.8608E-01	0.6062E-01	-0.3838E-02	-0.2224E+00	-0.1162E+00
9015	0.2895E+01	-0.8517E-01	-0.4895E+00	-0.1934E-01	-0.2426E+00	-0.1303E+00
9016	0.5658E+01	-0.8418E-01	-0.1059E+01	-0.8337E-02	-0.2627E+00	-0.3739E-02
30	0.3593E+01	-0.8312E-01	-0.1175E+01	-0.2461E-02	-0.2829E+00	0.8854E-01
31	0.3503E+01	-0.8309E-01	-0.1177E+01	-0.2683E-02	-0.2834E+00	0.8893E-01
32	0.2952E+01	-0.7905E-01	-0.1186E+01	-0.4186E-02	-0.3849E+00	0.8948E-01
33	0.2096E+01	-0.6550E-01	-0.1191E+01	-0.5717E-02	-0.2848E+00	0.8844E-01
37	-0.2864E+00	-0.1093E-01	-0.1191E+01	-0.6469E-02	-0.2764E+00	0.8482E-01
9017	-0.7358E+01	0.1456E+00	-0.1188E+01	-0.2642E-02	-0.1291E+00	0.7093E-01
9018	-0.7789E+01	0.1467E+00	-0.1185E+01	0.2459E-02	0.9962E-01	0.5703E-01
38	-0.2175E+01	0.1407E-01	-0.1181E+01	0.4936E-02	0.2081E+00	0.4314E-01
39	-0.5780E-01	-0.3680E-01	-0.1179E+01	0.4749E-02	0.1935E+00	0.3869E-01
9019	0.4520E+01	-0.1543E+00	-0.1173E+01	0.1524E-02	0.6148E-01	0.2407E-01
40	0.4025E+01	-0.1274E+00	-0.1166E+01	-0.2895E-02	-0.8000E-01	0.5447E-02
41	0.6670E+00	-0.1096E-01	-0.1160E+01	-0.4370E-02	-0.1099E+00	-0.3187E-02
43	0.4941E+00	-0.1407E-01	-0.7879E+00	-0.3835E-02	-0.8795E-01	-0.6317E-02
44	0.4939E+00	-0.2357E-01	-0.6627E+00	-0.3782E-02	-0.8335E-01	-0.6821E-02
45	0.4934E+00	-0.5222E-01	-0.3677E+00	-0.3642E-02	-0.6804E-01	-0.8003E-02
9020	0.4891E+00	-0.3108E+00	0.7193E-01	-0.2595E-02	0.2277E-01	-0.7111E-02
46	0.6845E+00	-0.3269E+00	-0.9072E+00	-0.1548E-02	0.3118E-01	0.7997E-02
47	0.4840E+00	-0.2997E+00	-0.9962E+00	-0.1637E-02	0.2729E-01	0.1023E-01
91	0.4528E+00	-0.2997E+00	-0.1000E+01	-0.1090E-02	0.2470E-01	0.1056E-01
92	0.3304E+00	-0.3003E+00	-0.1002E+01	0.1546E-03	0.6031E-02	0.1002E-01
93	0.2926E+00	-0.2997E+00	-0.1002E+01	-0.1301E-02	-0.4779E-02	0.7766E-02
94	0.2709E+00	-0.2943E+00	-0.1002E+01	-0.2643E-02	-0.8162E-02	0.5908E-02
95	0.2179E+00	-0.2746E+00	-0.1002E+01	-0.5949E-02	-0.1246E-01	0.3041E-02
96	0.1463E+00	-0.2347E+00	-0.1001E+01	-0.1058E-01	-0.1549E-01	0.1736E-03
97	0.1421E+00	-0.2320E+00	-0.1001E+01	-0.1084E-01	-0.1560E-01	0.3081E-04
98	0.6795E-01	-0.1757E+00	-0.9323E+00	-0.2210E-01	-0.1897E-01	-0.3568E-02
100	0.4939E-01	-0.1759E+00	-0.8235E+00	-0.2525E-01	-0.2038E-01	-0.4025E-02
101	0.3699E-01	-0.1760E+00	-0.7447E+00	-0.2634E-01	-0.2132E-01	-0.3692E-02
102	0.2437E-01	-0.1760E+00	-0.6397E+00	-0.2820E-01	-0.2164E-01	-0.2577E-02
113	-0.9837E-01	-0.4149E-01	-0.7451E+00	-0.1699E-01	-0.2415E-01	-0.4211E-02
114	-0.2049E+00	0.1591E-01	-0.7453E+00	-0.1095E-01	-0.2563E-01	-0.4695E-02
115	-0.3156E+00	0.5306E-01	-0.7455E+00	-0.7467E-02	-0.2626E-01	-0.5179E-02
116	-0.4804E+00	0.9403E-01	-0.7457E+00	-0.7084E-02	-0.2620E-01	-0.5891E-02
118	-0.5248E+00	0.1120E+00	-0.7661E+00	-0.1033E-01	-0.2552E-01	-0.6510E-02
9023	-0.2755E+00	0.1105E+00	-0.1091E+01	-0.5466E-02	-0.2044E-01	-0.1126E-01
120	0.6870E-01	0.1090E+00	-0.9575E+00	0.1225E-01	-0.1535E-01	-0.1073E-01
122	0.5809E-01	0.7897E-01	-0.9283E+00	0.1314E-01	-0.1480E-01	-0.9454E-02
124	-0.3685E-02	0.2528E-01	-0.9282E+00	0.1117E-01	-0.1445E-01	-0.8005E-02
125	-0.1458E+00	-0.2093E-01	-0.9277E+00	-0.5404E-02	-0.1345E-01	-0.4539E-02
127	-0.1834E+00	0.3464E-02	-0.8931E+00	-0.2094E-01	-0.1254E-01	-0.3042E-02
129	-0.1697E+00	0.2043E-02	-0.4949E-01	-0.2350E-01	-0.7392E-02	0.4121E-02
9024	-0.6654E-01	0.1022E-02	0.8488E-01	0.3635E-02	-0.3696E-02	0.5793E-02
130	-0.3164E-08	0.2234E-07	0.1251E-07	0.1426E-08	-0.2099E-09	0.7204E-09
48	0.4836E+00	-0.2665E+00	-0.1078E+01	-0.2303E-02	0.2638E-01	0.1136E-01
49	0.4830E+00	-0.2060E+00	-0.1204E+01	-0.3747E-02	0.2289E-01	0.1210E-01
50	0.4822E+00	-0.1455E+00	-0.1307E+01	-0.5190E-02	0.1774E-01	0.1129E-01
51	0.4820E+00	-0.1285E+00	-0.1333E+01	-0.5623E-02	0.1601E-01	0.1072E-01
52	0.4811E+00	-0.7648E-01	-0.1403E+01	-0.7210E-02	0.9075E-02	0.7321E-02
53	0.4770E+00	-0.9377E-01	-0.1242E+01	-0.1421E-01	-0.2164E-01	-0.6788E-02
54	0.4707E+00	-0.4448E+00	-0.4465E-02	-0.2453E-01	-0.3887E-01	-0.9284E-02
55	0.4706E+00	-0.4517E+00	0.2473E-01	-0.2475E-01	-0.3869E-01	-0.9119E-02
56	0.3349E+00	-0.3846E+00	0.1658E+00	-0.2705E-01	-0.3163E-01	-0.6814E-02
57	0.2652E+00	-0.3232E+00	0.1658E+00	-0.2757E-01	-0.2819E-01	-0.6146E-02
58	0.2128E+00	-0.2675E+00	0.1659E+00	-0.2802E-01	-0.2472E-01	-0.5552E-02
59	0.1467E+00	-0.1824E+00	0.1660E+00	-0.2866E-01	-0.2000E-01	-0.4661E-02
103	0.1464E+00	-0.1740E+00	0.1052E+00	-0.2927E-01	-0.8692E-02	0.2534E-02
104	0.1455E+00	-0.2654E+00	0.1539E+00	-0.3171E-01	0.1224E-01	0.1162E-01
105	0.1451E+00	-0.2959E+00	0.1896E+00	-0.3250E-01	0.1068E-01	0.8096E-02
106	0.1448E+00	-0.3132E+00	0.2158E+00	-0.3329E-01	0.6393E-02	0.3572E-02
107	0.1434E+00	-0.3034E+00	0.1466E+00	-0.3632E-01	-0.2103E-01	-0.1412E-02
109	0.1055E+00	-0.2471E+00	0.1115E+00	-0.3674E-01	-0.2572E-01	0.6811E-03
111	0.3019E-01	-0.1252E+00	0.1115E+00	-0.3498E-01	-0.1375E-01	0.4516E-02
112	0.1803E-01	-0.7657E-01	0.1115E+00	-0.3344E-01	-0.1527E-02	0.6126E-02
60	0.9370E-01	-0.9544E-01	0.1660E+00	-0.2924E-01	-0.1611E-01	-0.3924E-02
61	0.5129E-01	-0.6853E-02	0.1661E+00	-0.2973E-01	-0.1294E-01	-0.3186E-02
62	0.4817E-01	0.5807E-03	0.1661E+00	-0.2976E-01	-0.1271E-01	-0.3125E-02
63	0.1341E-01	0.1219E+00	0.1384E+00	-0.3071E-01	-0.5277E-02	-0.1370E-02
64	0.1412E-01	0.1219E+00	0.1078E+00	-0.3229E-01	-0.9508E-03	0.1632E-02
65	0.1444E-01	0.1097E+00	0.1064E+00	-0.3303E-01	0.9366E-04	0.3338E-02
131	0.3527E-02	0.1097E+00	-0.1203E-02	-0.3312E-01	0.9366E-04	0.3353E-02
132	-0.7400E-02	0.1097E+00	-0.1093E+00	-0.3320E-01	0.9366E-04	0.3356E-02
66	0.1477E-01	0.8870E-01	0.1087E+00	-0.3312E-01	0.4915E-03	0.4835E-02
67	0.1506E-01	0.6576E-01	0.1110E+00	-0.3322E-01	0.2617E-03	0.5772E-02
68	0.1526E-01	0.4748E-01	0.1115E+00	-0.3328E-01	-0.2105E-03	0.6245E-02
69	0.1541E-01	0.2800E-01	0.1109E+00	-0.3327E-01	-0.4293E-03	0.6597E-02
70	0.1553E-01	0.1280E-01	0.1099E+00	-0.3326E-01	-0.7618E-03	0.6771E-02
71	0.1574E-01	-0.2183E-01	0.1038E+00	-0.3324E-01	-0.2012E-02	0.6861E-02

133	-0.6583E-03	-0.2183E-01	-0.4455E-02	-0.3335E-01	-0.2012E-02	0.6899E-02
134	-0.2912E-01	-0.2184E-01	-0.1137E+00	-0.3343E-01	-0.2012E-02	0.6920E-02
72	0.1602E-01	-0.5603E-01	0.8972E-01	-0.3266E-01	-0.4009E-02	0.6662E-02
73	0.1707E-01	-0.1700E+00	-0.1711E+00	-0.3011E-01	-0.2221E-01	0.2702E-02
74	0.1719E-01	-0.1759E+00	-0.2316E+00	-0.2983E-01	-0.2459E-01	0.1969E-02
75	0.1743E-01	-0.1820E+00	-0.3638E+00	-0.2925E-01	-0.2631E-01	0.4033E-03
76	0.1766E-01	-0.1800E+00	-0.4946E+00	-0.2868E-01	-0.2419E-01	-0.1178E-02
77	0.1777E-01	-0.1760E+00	-0.5537E+00	-0.2835E-01	-0.2178E-01	-0.1930E-02
78	0.1782E-01	-0.1701E+00	-0.6324E+00	-0.2696E-01	-0.1746E-01	-0.1126E-02
9021	0.1812E-01	-0.1898E+00	-0.7333E+00	-0.1669E-01	0.8750E-02	0.1607E-02
79	0.1841E-01	-0.2315E+00	-0.2807E+00	-0.6425E-02	0.1883E-01	0.1034E-02
80	0.1852E-01	-0.2403E+00	-0.8438E-01	-0.2525E-02	0.1636E-01	0.6461E-03
81	0.1855E-01	-0.2419E+00	-0.4161E-01	-0.1561E-02	0.1515E-01	0.5934E-03
82	-0.2415E-01	-0.2438E+00	0.7703E-02	0.9312E-03	0.9115E-02	0.2711E-03
9022	-0.1031E+00	-0.1540E+00	0.8387E-02	0.5224E-02	-0.1461E-02	0.2946E-03
83	-0.2323E-01	-0.2340E-01	0.9068E-02	0.3757E-02	-0.3040E-02	0.3181E-03
84	-0.1638E-01	-0.1508E-01	0.9130E-02	0.3287E-02	-0.2702E-02	0.3202E-03
85	-0.1201E-01	-0.9827E-02	0.9174E-02	0.2915E-02	-0.2411E-02	0.3217E-03
86	-0.9436E-03	0.7792E-03	-0.1191E-03	0.5137E-03	-0.3272E-03	0.2453E-03
87	-0.1004E-07	-0.7083E-08	-0.2205E-07	-0.1142E-09	0.3336E-09	0.2879E-09

COUPLED MODE SHAPES (FOR SECONDARY MODE) MODE 24
FREQUENCY (HZ.) = 20.88973

MODAL DISP AT PRIMARY SYSTEM CONNETING DOF

DOF #	DISPLACEMENT
3041	0.4611E-04
3042	0.0000E+00
3043	-0.3616E-04
3061	0.7641E-04
3063	-0.1215E-03
3072	0.0000E+00
3081	0.7611E-04
3103	-0.4375E-03
3121	0.2804E-04
3122	0.0000E+00
3131	-0.5708E-03
3091	0.7172E-04
3092	0.0000E+00
3093	-0.2710E-03

MODAL DISPLACEMENTS AT SECONDARY SYSTEM DOF

NODE	DX	DY	DZ	ROT-X	ROT-Y	ROT-Z
1	0.5336E-07	0.2775E-07	-0.3192E-07	0.5884E-08	0.7688E-08	0.4431E-08
2	-0.1839E-01	0.2374E-01	-0.1909E-01	0.5488E-02	0.8218E-02	0.3584E-02
3	-0.1069E+00	0.1585E+00	-0.2898E+00	0.1531E-01	0.2808E-01	0.6022E-02
4	-0.1051E+00	0.1604E+00	-0.1269E+01	0.3061E-01	0.3988E-01	-0.1073E-01
5	-0.1042E+00	-0.9745E-01	-0.1781E+01	0.3831E-01	0.3572E-01	-0.2918E-01
9001	-0.8748E-01	-0.1574E+00	-0.1826E+01	0.3960E-01	0.3395E-01	-0.3507E-01
9002	-0.3467E-01	-0.2093E+00	-0.1816E+01	0.4124E-01	0.3222E-01	-0.4089E-01
6	0.4788E-01	-0.2308E+00	-0.1753E+01	0.4299E-01	0.3080E-01	-0.4633E-01
7	0.1564E+00	-0.2308E+00	-0.1655E+01	0.4404E-01	0.2935E-01	-0.4934E-01
9003	0.2143E+01	-0.2296E+00	0.5625E-01	0.4253E-01	0.5650E-02	-0.3937E-01
9004	0.2282E+01	-0.2281E+00	0.1038E+01	0.4778E-02	-0.1805E-01	0.3468E-01
8	-0.2256E-02	-0.2265E+00	0.2627E+00	-0.4503E-01	-0.4175E-01	0.7493E-01
10	-0.4775E+00	-0.2261E+00	-0.4839E-01	-0.5236E-01	-0.4585E-01	0.7326E-01
9005	-0.2299E+01	-0.2243E+00	-0.1863E+01	-0.5147E-01	-0.6598E-01	0.3494E-01
9006	-0.2494E+01	-0.2224E+00	-0.2810E+01	-0.5687E-02	-0.8612E-01	-0.1991E-01
11	-0.1546E+01	-0.2203E+00	-0.2405E+01	0.2165E-01	-0.1062E+00	-0.2629E-01
12	-0.1347E+01	-0.2195E+00	-0.2191E+01	0.1540E-01	-0.1132E+00	-0.7812E-02
9007	-0.1339E+01	-0.2205E+00	-0.2108E+01	0.1115E-01	-0.1141E+00	0.9294E-03
9008	-0.1346E+01	-0.2124E+00	-0.1938E+01	0.6918E-02	-0.1145E+00	0.1009E-01
13	-0.1352E+01	-0.1843E+00	-0.1719E+01	0.2862E-02	-0.1147E+00	0.1913E-01
14	-0.1352E+01	-0.1216E+00	-0.1402E+01	-0.2774E-02	-0.1143E+00	0.2553E-01
15	-0.1351E+01	0.7009E-01	-0.7229E+00	-0.1505E-01	-0.1101E+00	0.3706E-01
16	-0.1349E+01	0.6799E+00	0.6441E+00	-0.4361E-01	-0.7965E-01	0.4342E-01
17	-0.1423E+01	0.8439E+00	0.8336E+00	-0.4930E-01	-0.6134E-01	0.3924E-01
18	-0.1665E+01	0.1277E+01	0.1077E+01	-0.5867E-01	-0.3817E-01	0.2566E-01
19	-0.1822E+01	0.1799E+01	0.1237E+01	-0.6332E-01	-0.8591E-02	-0.2628E-02
20	-0.1468E+01	0.1734E+01	0.8897E+00	-0.3186E-01	0.3729E-01	-0.1207E+00
21	-0.7754E-00	0.1414E+01	0.7414E+00	-0.4414E-03	0.4367E-01	-0.1745E+00
9009	0.7127E+01	0.1417E+01	0.1670E+01	0.3200E-01	0.6217E-01	-0.1464E+00
9010	0.8020E+01	0.1417E+01	0.2116E+01	-0.2609E-01	0.8067E-01	0.1052E+00
22	0.1456E+01	0.1416E+01	0.8716E-01	-0.6071E-01	0.9917E-01	0.1469E+00
23	0.3880E+00	0.1416E+01	-0.4183E+00	-0.5719E-01	0.1031E+00	0.9826E-01
24	-0.3674E+00	0.1415E+01	-0.1240E+01	-0.4095E-01	0.1106E+00	0.1091E-02
9011	0.1439E+01	0.1411E+01	-0.1769E+01	0.1220E-01	0.1261E+00	-0.8196E-01
9012	0.3650E+01	0.1407E+01	-0.5600E+00	0.5299E-01	0.1415E+00	-0.3140E-01
25	0.2996E+01	0.1401E+01	0.1216E+01	0.4298E-01	0.1569E+00	0.6875E-01
26	0.2221E+01	0.1399E+01	0.1567E+01	0.3020E-01	0.1612E+00	0.9272E-01
9013	-0.1641E+01	0.1391E+01	0.1705E+01	-0.2231E-01	0.1776E+00	0.1013E+00
9014	-0.3717E+01	0.1383E+01	0.3837E+00	-0.4053E-01	0.1939E+00	0.3054E-02
27	-0.1845E+01	0.1372E+01	-0.2928E+00	0.1671E-01	0.2103E+00	-0.9625E-01
28	-0.4461E+00	0.1368E+01	0.1932E+00	0.5890E-01	0.2164E+00	-0.1113E+00
29	0.1739E+01	0.1361E+01	0.1890E+01	0.9904E-01	0.2256E+00	-0.9885E-01
9015	0.3644E+01	0.1348E+01	0.4958E+01	0.3900E-01	0.2429E+00	0.1296E-01
9016	0.6529E+00	0.1332E+01	0.4341E+01	-0.5882E-01	0.2601E+00	0.1344E+00
30	-0.5291E+01	0.1316E+01	0.2731E+01	0.2046E-01	0.2773E+00	0.1660E+00
31	-0.5457E+01	0.1315E+01	0.2754E+01	0.2642E-01	0.2778E+00	0.1654E+00
32	-0.5586E+01	0.1261E+01	0.2865E+01	0.6000E-01	0.2794E+00	0.1627E+00
35	-0.5020E+01	0.1053E+01	0.2943E+01	0.9009E-01	0.2811E+00	0.1607E+00
37	-0.2644E+01	0.1583E+00	0.2942E+01	0.1102E+00	0.2807E+00	0.1559E+00
9017	0.5235E+01	-0.2865E+01	0.2931E+01	0.6014E-01	0.1716E+00	0.1376E+00
9018	0.7215E+01	-0.3199E+01	0.2918E+01	-0.4066E-01	-0.5619E-01	0.1193E+00
38	0.2324E+01	-0.6447E+00	0.2903E+01	-0.1014E+00	-0.2150E+00	0.1010E+00

39	0.7740E-02	0.4209E+00	0.2898E+01	-0.1014E+00	-0.2259E+00	0.9516E-[illegible]
9019	-0.6431E+01	0.3087E+01	0.2677E+01	-0.3952E-01	-0.1140E+00	0.7597[illegible]-01
40	-0.6571E+01	0.2720E+01	0.2854E+01	0.5782E-01	0.1047E+00	0.5677E-01
41	-0.1531E+01	0.2824E+00	0.2832E+01	0.9359E-01	0.2087E+00	0.4[illegible]94E-01
43	-0.7395E+00	0.7634E-01	0.2046E+01	0.9048E-01	0.1965E+00	0.3777E-01
44	-0.7393E+00	0.1301E+00	0.1761E+01	0.8951E-01	0.1901E+00	0.3777E-01
45	-0.7386E+00	0.2750E+00	0.1068E+01	0.8695E-01	0.1629E+00	0.[illegible]767E-01
9020	-0.7328E+00	0.1143E+01	-0.5665E+00	0.6778E-01	-0.2245E-01	0.[illegible]715E-01
46	-0.7266E+00	0.1048E+01	0.9401E+00	0.4861E-01	-0.5515E-01	-0.2568E-01
47	-0.7259E+00	0.9634E+00	0.1100E+01	0.4660E-01	-0.4943E-01	-0.3072E-01
91	-0.6336E+00	0.9636E+00	0.1229E+01	0.4567E-01	-0.4569E-01	-0.3054E-01
92	-0.3084E+00	0.9650E+00	0.1708E+01	0.3711E-01	-0.1878E-01	-0.2599E-01
93	-0.2524E+00	0.8486E+00	0.1835E+01	0.2914E-01	-0.3202E-02	-0.2071E-01
94	-0.2536E+00	0.7573E+00	0.1835E+01	0.2854E-01	0.1940E-02	-0.1719E-01
95	-0.2251E+00	0.6139E+00	0.1835E+01	0.3045E-01	0.8864E-02	-0.1175E-01
96	-0.1650E+00	0.4524E+00	0.1834E+01	0.3537E-01	0.1440E-01	-0.6322E-02
97	-0.1613E+00	0.4436E+00	0.1834E+01	0.3569E-01	0.1463E-01	-0.6051E-02
98	-0.9663E-01	0.2906E+00	0.1664E+01	0.5030E-01	0.2273E-01	0.1570E-02
100	-0.8328E-01	0.2910E+00	0.1425E+01	0.5459E-01	0.2684E-01	0.3635E-02
101	-0.7046E-01	0.2912E+00	0.1257E+01	0.5607E-01	0.2958E-01	0.4303E-02
102	-0.5334E-01	0.2914E+00	0.1039E+01	0.5825E-01	0.3159E-01	0.4367E-02
113	0.1195E+00	-0.1429E-01	0.1258E+01	0.4359E-01	0.3437E-01	0.5133E-02
114	0.2724E+00	-0.1788E+00	0.1258E+01	0.3486E-01	0.3705E-01	0.5907E-02
115	0.4334E+00	-0.3123E+00	0.1259E+01	0.2915E-01	0.3837E-01	0.6680E-02
116	0.6758E+00	-0.4814E+00	0.1259E+01	0.2683E-01	0.3875E-01	0.7818E-02
118	0.7437E+00	-0.5428E+00	0.1323E+01	0.2915E-01	0.3805E-01	0.8777E-02
9023	0.3894E+00	-0.5408E+00	0.1955E+01	0.2796E-02	0.3256E-01	0.1660E-01
120	-0.1294E+00	-0.5383E+00	0.1338E+01	-0.3591E-01	0.2708E-01	0.1642E-01
122	-0.1047E+00	-0.4456E+00	0.1247E+01	-0.4108E-01	0.2656E-01	0.1451E-01
124	0.6999E-02	-0.2742E+00	0.1247E+01	-0.3804E-01	0.2627E-01	0.1238E-01
125	0.2681E+00	-0.4418E-02	0.1246E+01	-0.8897E-02	0.2485E-01	0.7295E-02
127	0.3359E+00	-0.6552E-02	0.1225E+01	0.1932E-01	0.2323E-01	0.5057E-02
129	0.3126E+00	-0.3866E-02	0.7910E-01	0.3475E-01	0.1370E-01	-0.7349E-02
9024	0.1239E+00	-0.1933E-02	-0.1228E+00	-0.5142E-02	0.6849E-02	-0.1073E-01
130	0.6022E-08	-0.4227E-07	-0.1835E-07	-0.2078E-08	0.3890E-09	-0.1350E-08
48	-0.7253E+00	0.8623E+00	0.1248E+01	0.4661E-01	-0.4778E-01	-0.3512E-01
49	-0.7243E+00	0.6714E+00	0.1477E+01	0.4663E-01	-0.4219E-01	-0.3917E-01
50	-0.7232E+00	0.4707E+00	0.1669E+01	0.4665E-01	-0.3414E-01	-0.3862E-01
51	-0.7228E+00	0.4123E+00	0.1719E+01	0.4666E-01	-0.3144E-01	-0.3747E-01
52	-0.7216E+00	0.2213E+00	0.1864E+01	0.4668E-01	-0.2063E-01	-0.2931E-01
53	-0.7155E+00	0.1166E-01	0.1765E+01	0.4679E-01	0.2795E-01	0.7311E-02
54	-0.7059E+00	0.5657E+00	0.1948E-02	0.4694E-01	0.5721E-01	0.1395E-01
55	-0.7057E+00	0.5760E+00	-0.4106E-01	0.4694E-01	0.5699E-01	0.1349E-01
56	-0.5048E+00	0.4400E+00	-0.2495E+00	0.4798E-01	0.4679E-01	0.7246E-02
57	-0.4017E+00	0.3319E+00	-0.2496E+00	0.4824E-01	0.4164E-01	0.5173E-02
58	-0.3245E+00	0.2353E+00	-0.2497E+00	0.4856E-01	0.3643E-01	0.3330E-02
59	-0.2272E+00	0.8892E-01	-0.2499E+00	0.4915E-01	0.2933E-01	0.5656E-03
103	-0.2269E+00	0.1051E+00	-0.1628E+00	0.5050E-01	0.1118E-01	-0.1439E-01
104	-0.2255E+00	0.3865E+00	-0.2613E+00	0.5600E-01	-0.2084E-01	-0.3570E-01
105	-0.2251E+00	0.4865E+00	-0.3207E+00	0.5777E-01	-0.1755E-01	-0.2972E-01
106	-0.2246E+00	0.5649E+00	-0.3620E+00	0.5955E-01	-0.9866E-02	-0.2135E-01
107	-0.2226E+00	0.7020E+00	-0.2515E+00	0.6635E-01	0.3138E-01	-0.8813E-02
109	-0.1670E+00	0.6154E+00	-0.1992E+00	0.6724E-01	0.3757E-01	-0.1137E-01
111	-0.5783E-01	0.3920E+00	-0.1992E+00	0.6416E-01	0.1972E-01	-0.1631E-01
112	-0.4054E-01	0.3028E+00	-0.1992E+00	0.6131E-01	0.1985E-02	-0.1838E-01
60	-0.1497E+00	-0.5943E-01	-0.2500E+00	0.4963E-01	0.2347E-01	-0.1887E-02
61	-0.8818E-01	-0.2099E+00	-0.2501E+00	0.5059E-01	0.1865E-01	-0.4340E-02
62	-0.8369E-01	-0.2226E+00	-0.2501E+00	0.5065E-01	0.1830E-01	-0.4544E-02
63	-0.3491E-01	-0.3862E+00	-0.2124E+00	0.5269E-01	0.6765E-02	-0.9930E-02
64	-0.3593E-01	-0.2432E+00	-0.1801E+00	0.5699E-01	0.2472E-03	-0.1573E-01
65	-0.3639E-01	-0.1587E+00	-0.1835E+00	0.5895E-01	-0.1140E-02	-0.1786E-01
131	0.2165E-01	-0.1587E+00	0.8579E-02	0.5917E-01	-0.1140E-02	-0.1791E-01
132	0.8022E-01	-0.1588E+00	0.2018E+00	0.5934E-01	-0.1140E-02	-0.1798E-01
66	-0.3679E-01	-0.6445E-01	-0.1914E+00	0.5979E-01	-0.1467E-02	-0.1913E-01
67	-0.3713E-01	0.1816E-01	-0.1974E+00	0.6050E-01	-0.8443E-03	-0.1913E-01
68	-0.3737E-01	0.7545E-01	-0.1992E+00	0.6100E-01	0.8492E-04	-0.1853E-01
69	-0.3754E-01	0.1302E+00	-0.1987E+00	0.6135E-01	0.6810E-03	-0.1750E-01
70	-0.3767E-01	0.1689E+00	-0.1968E+00	0.6161E-01	0.1387E-02	-0.1643E-01
71	-0.3795E-01	0.2445E+00	-0.1853E+00	0.6218E-01	0.3742E-02	-0.1317E-01
133	0.4943E-02	0.2446E+00	0.1722E-01	0.6241E-01	0.3742E-02	-0.1322E-01
134	0.4812E-01	0.2447E+00	0.2210E+00	0.6259E-01	0.3742E-02	-0.1326E-01
72	-0.3824E-01	0.3004E+00	-0.1593E+00	0.6172E-01	0.7181E-02	-0.9321E-02
73	-0.3948E-01	0.3563E+00	0.2702E+00	0.5965E-01	0.3522E-01	0.2707E-02
74	-0.3961E-01	0.3482E+00	0.3657E+00	0.5942E-01	0.3871E-01	0.3686E-02
75	-0.3989E-01	0.3273E+00	0.5726E+00	0.5896E-01	0.4076E-01	0.4518E-02
76	-0.4015E-01	0.3031E+00	0.7734E+00	0.5849E-01	0.3664E-01	0.4698E-02
77	-0.4028E-01	0.2915E+00	0.8623E+00	0.5826E-01	0.3243E-01	0.4213E-02
78	-0.4036E-01	0.2780E+00	0.9798E+00	0.5542E-01	0.2614E-01	0.2681E-02
9021	-0.4084E-01	0.3016E+00	0.1134E+01	0.3514E-01	-0.1332E-01	-0.2678E-02
79	-0.4131E-01	0.3737E+00	0.4349E+00	0.1486E-01	-0.2928E-01	-0.1814E-02
80	-0.4148E-01	0.3891E+00	0.1287E+00	0.7151E-02	-0.2557E-01	-0.1113E-02
81	-0.4152E-01	0.3919E+00	0.6184E-01	0.5247E-02	-0.2370E-01	-0.1014E-02
82	0.2554E-01	0.4030E+00	-0.1547E-01	0.3097E-03	-0.1436E-01	-0.3667E-03
9022	0.1535E+00	0.2765E+00	-0.1655E-01	-0.8648E-02	0.2085E-02	-0.3349E-03
83	0.3331E-01	0.4737E-01	-0.1762E-01	-0.6954E-02	0.4591E-02	-0.3032E-03
84	0.2297E-01	0.3185E-01	-0.1772E-01	-0.6166E-02	0.4068E-02	-0.3003E-03
85	0.1639E-01	0.2195E-01	-0.1779E-01	-0.5537E-02	0.3617E-02	-0.2983E-03
86	0.8326E-03	-0.5537E-03	-0.8675E-03	-0.1281E-02	0.4110E-03	-0.1997E-03
87	0.1566E-07	0.1339E-07	0.3459E-07	-0.3898E-11	-0.5531E-09	-0.2303E-09

COUPLED MODE SHAPES (FOR SECONDARY MODE) MODE 25
FREQUENCY (HZ.) = 22.16978

MODAL DISP AT PRIMARY SYSTEM CONNETING DOF

DOF #	DISPLACEMENT
3041	-0.8460E-05
3042	0.0000E+00
3043	-0.2164E-04

3061	-0.1066E-04
3063	-0.7271E-04
3072	0.0000E+00
3081	-0.4818E-05
3103	-0.2617E-03
3121	0.2502E-04
3122	0.0000E+00
3123	-0.3415E-03
3091	-0.4621E-06
3092	0.0000E+00
3093	-0.1622E-03

MODAL DISPLACEMENTS AT SECONDARY SYSTEM DOF

NODE	DX	DY	DZ	ROT-X	ROT-Y	ROT-Z
1	0.1000E-06	0.5640E-07	0.3864E-07	-0.8093E-08	-0.2333E-07	0.1196E-07
2	0.5370E-01	0.2475E-01	0.5320E-01	-0.4099E-02	-0.2020E-01	0.1264E-01
3	0.2384E+00	0.2940E+00	0.5580E+00	-0.2234E-01	-0.4456E-01	0.2780E-01
4	0.2415E+00	0.8672E+00	0.1896E+01	-0.5754E-01	-0.5032E-01	0.5456E-02
5	0.2430E+00	0.7511E+00	0.2531E+01	-0.7525E-01	-0.4442E-01	-0.2514E-01
9001	0.2591E+00	0.6952E+00	0.2574E+01	-0.7806E-01	-0.4247E-01	-0.3494E-01
9002	0.3148E+00	0.6410E+00	0.2522E+01	-0.8137E-01	-0.4056E-01	-0.4460E-01
6	0.4082E+00	0.6169E+00	0.2386E+01	-0.8888E-01	-0.3915E-01	-0.5362E-01
7	0.5358E+00	0.6170E+00	0.2192E+01	-0.8695E-01	-0.3787E-01	-0.5864E-01
9003	0.3077E+01	0.6181E+00	-0.1042E+01	-0.7258E-01	-0.1695E-01	-0.5019E-01
9004	0.3107E+01	0.6186E+00	-0.2328E+01	0.9975E-02	0.3963E-02	0.5140E-01
9	0.2909E-01	0.6184E+00	-0.4977E+00	0.7676E-01	0.2488E-01	0.9203E-01
10	-0.5404E+00	0.6183E+00	0.6691E-02	0.8042E-01	0.2850E-01	0.8567E-01
9005	-0.2377E+01	0.6169E+00	0.2278E+01	0.5087E-01	0.4627E-01	0.2339E-01
9006	-0.1881E+01	0.6151E+00	0.2725E+01	-0.2410E-01	0.6404E-01	-0.5083E-01
11	0.2619E+00	0.6127E+00	0.1086E+01	-0.6809E-01	0.8181E-01	-0.7200E-01
12	0.9864E+00	0.6118E+00	0.3557E+00	-0.6513E-01	0.8792E-01	-0.6070E-01
9007	0.1096E+[illegible]	0.5828E+00	0.1910E+00	-0.6210E-01	0.8880E-01	-0.5508E-01
9008	0.1168E+01	0.5112E+00	-0.1534E-01	-0.5902E-01	0.8926E-01	-0.4866E-01
13	0.1192E+01	0.4259E+00	-0.2129E+00	-0.5602E-01	0.8953E-01	-0.4133E-01
14	0.1192E+01	0.3193E+00	-0.4605E+00	-0.5142E-01	0.8933E-01	-0.3497E-01
15	0.1192E+01	0.1552E+00	-0.9916E+00	-0.4269E-01	0.8634E-01	-0.1810E-01
16	0.1192E+01	0.1864E+00	-0.2093E+01	-0.2145E-01	0.6885E-01	0.2014E-01
17	0.1261E+01	0.2757E+00	-0.2264E+01	-0.1765E-01	0.5915E-01	0.3101E-01
18	0.1519E+01	0.5286E+00	-0.2522E+01	-0.4588E-02	0.4547E-01	0.4862E-01
19	0.1763E+01	0.9044E+00	-0.2765E+01	0.1705E-01	0.2473E-01	0.7039E-01
20	0.1805E+01	0.1098E+01	-0.2809E+01	0.6764E-01	-0.1402E-01	0.1146E+00
21	0.1314E+01	0.1752E+01	-0.2375E+01	0.1119E+00	-0.2192E-01	0.1206E+00
9009	-0.2950E+01	0.1751E+01	0.2551E+01	0.9753E-01	-0.4565E-01	0.6518E-01
9010	-0.3089E+01	0.1748E+01	0.3743E+01	-0.4616E-01	-0.6938E-01	-0.5268E-01
22	-0.4657E+00	0.1742E+01	-0.1837E+00	-0.1164E+00	-0.9311E-01	-0.3863E-01
23	-0.2668E+00	0.1741E+01	-0.1141E+01	-0.1065E+00	-0.9814E-01	-0.5258E-02
24	-0.6962E+00	0.1737E+01	-0.2609E+01	-0.6864E-01	-0.1078E+00	0.5009E-01
9011	-0.2820E+01	0.1729E+01	-0.3149E+01	0.3936E-01	-0.1276E+00	0.5250E-01
9012	-0.3228E+01	0.1719E+01	-0.4293E+00	0.1062E+00	-0.1474E+00	-0.3450E-01
25	-0.7681E+00	0.1708E+01	0.2771E+01	0.6544E-01	-0.1671E+00	-0.9842E-01
26	0.1877E+00	0.1704E+01	0.3255E+01	0.3536E-01	-0.1727E+00	-0.1007E+00
9013	0.3000E+01	0.1690E+01	0.2599E+01	-0.6617E-01	-0.1937E+00	-0.3926E-01
9014	0.2479E+01	0.1674E+01	-0.3460E+00	-0.7387E-01	-0.2147E+00	0.6444E-01
27	-0.6451E+00	0.1657E+01	-0.9682E+00	0.6232E-01	-0.2356E+00	0.8869E-01
28	-0.1683E+01	0.1650E+01	0.3920E+00	0.1462E-00	-0.2435E+00	0.6456E-01
29	-0.2449E+01	0.1638E+01	0.4252E+01	0.2132E+00	-0.2553E+00	0.9619E-02
9015	-0.9986E+00	0.1615E+01	0.1010E+01	0.4397E-01	-0.2774E+00	-0.7807E-01
9016	0.7409E+01	0.1591E+01	0.6786E+01	-0.1865E+00	-0.2995E+00	-0.8626E-01
30	0.4919E+01	0.1564E+01	0.7961E+00	-0.3869E-01	-0.3216E+00	-0.5168E-01
31	0.4970E+01	0.1563E+01	0.7614E+00	-0.2709E-01	-0.3227E+00	-0.5107E-01
32	0.4746E+01	0.1544E+01	0.7695E+00	0.3792E-01	-0.3241E+00	-0.4888E-01
35	0.3937E+01	0.1349E+01	0.8355E+00	0.9752E-01	-0.3250E+00	-0.4818E-01
37	0.1207E+01	0.2350E+00	0.8327E+00	0.1479E+00	-0.3192E+00	-0.4718E-01
9017	-0.9223E+01	-0.4544E+01	0.8206E+00	0.1115E+00	-0.1615E+00	-0.4332E-01
9018	-0.8131E+01	-0.5617E+01	0.8079E+00	-0.5284E-01	0.1026E+00	-0.3946E-01
38	-0.2201E+01	-0.1596E+01	0.7945E+00	-0.1723E+00	0.2127E+00	-0.3560E-01
39	-0.1012E+00	0.2499E+00	0.7901E+00	-0.1790E+00	0.1836E+00	-0.3437E-01
9019	0.3489E+01	0.5217E+01	0.7744E+00	-0.8132E-01	0.2542E-01	-0.3031E-01
40	0.2284E+01	0.4936E+01	0.7579E+00	0.9135E-01	-0.7402E-01	-0.2625E-01
41	0.4069E+00	0.8786E+00	0.7432E+00	0.1550E+00	-0.2562E-01	-0.2274E-01
43	0.3753E+00	0.2266E+00	0.7236E+00	0.1456E+00	0.1664E-01	-0.1817E-01
44	0.3751E+00	0.2003E+00	0.6934E+00	0.7432E+00	0.1977E-01	-0.1678E-01
45	0.3745E+00	0.1445E+00	0.6014E+00	0.1369E+00	0.2153E-01	-0.1279E-01
9020	0.3697E+00	0.9100E-01	0.2489E+00	0.89[illegible]E-01	0.5114E-02	0.4537E-02
46	0.3646E+00	0.2135E+00	0.1912E+00	0.4241E-01	-0.1487E-03	0.1283E-02
47	0.3640E+00	0.2155E+00	0.1920E+00	0.3744E-01	-0.3241E-03	-0.1854E-03
91	0.3617E+00	0.2156E+00	0.3034E+00	0.3612E-01	-0.1215E-02	0.5692E-03
92	0.3388E+00	0.2162E+00	0.6549E+00	0.2624E-01	-0.7625E-02	0.2383E-02
93	0.2946E+00	0.1402E+00	0.7404E+00	0.1761E-01	-0.1068E-01	0.5038E-03
94	0.2583E+00	0.8694E-01	0.7404E+00	0.1591E-01	-0.1116E-01	-0.8612E-03
95	0.2017E+00	0.1253E-01	0.7404E+00	0.1469E-01	-0.1076E-01	-0.2967E-02
96	0.1506E+00	-0.6007E-01	0.7402E+00	0.1516E-01	-0.8805E-02	-0.5073E-02
97	0.1484E+00	-0.6379E-01	0.7402E+00	0.1522E-01	-0.8663E-02	-0.5178E-02
98	0.1001E+00	-0.1254E+00	0.6734E+00	0.1913E-01	-0.2114E-02	-0.6455E-02
100	0.7020E-01	-0.1251E+00	0.5840E+00	0.1992E-01	0.2795E-02	-0.6036E-02
101	0.5267E-01	-0.1250E+00	0.5235E+00	0.1975E-01	0.6068E-02	-0.4970E-02
102	0.3656E-01	-0.1248E+00	0.4464E+00	0.2015E-01	0.9510E-02	-0.2782E-02
113	0.9474E-01	-0.2224E+00	0.5239E+00	0.1147E-01	0.8213E-02	-0.4176E-02
114	0.1326E+00	-0.2584E+00	0.5242E+00	0.6382E-02	0.9340E-02	-0.3437E-02
115	0.1737E+00	-0.2784E+00	0.5244E+00	0.4259E-02	0.9840E-02	-0.2694E-02
116	0.2360E+00	-0.3087E+00	0.5247E+00	0.7367E-02	0.9893E-01	-0.1611E-02
118	0.2605E+00	-0.3308E+00	0.5523E+00	0.1519E-01	0.9462E-02	-0.7972E-03
9023	0.2030E+00	-0.3286E+00	0.1169E+01	0.1546E-01	0.6432E-02	0.5257E-02
120	-0.1320E-02	-0.3265E+00	0.1107E+01	-0.1925E-01	0.3402E-02	0.7216E-02
122	-0.9822E-02	-0.2738E+00	0.1058E+01	-0.2453E-01	0.3095E-02	0.6519E-02
124	0.2889E-02	-0.1671E+00	0.1058E+01	-0.2420E-01	0.2990E-02	0.5699E-02
125	0.3266E-01	0.2875E-02	0.1057E+01	-0.3704E-02	0.2868E-02	0.3738E-02
127	0.4640E-01	-0.5860E-02	0.1034E+01	0.1836E-01	0.2637E-02	0.2921E-02

129	0.6932E-01	-0.3458E-02	0.6442E-01	0.2878E-01	0.1555E-02	-0.1190E-02
9024	0.2959E-01	-0.1729E-02	-0.1024E+00	-0.4300E-02	0.7774E-03	-0.2484E-02
130	0.1613E-08	-0.3781E-07	-0.1527E-07	-0.1731E-08	0.4415E-10	-0.3327E-09
48	0.3636E+00	0.2095E+00	0.1912E+00	0.3571E-01	0.8380E-03	-0.3279E-02
49	0.3629E+00	0.1813E+00	0.1822E+00	0.3283E-01	0.2739E-02	-0.7371E-02
50	0.3621E+00	0.1359E+00	0.1638E+00	0.2994E-01	0.4447E-02	-0.9986E-02
51	0.3618E+00	0.1201E+00	0.1567E+00	0.2906E-01	0.4893E-02	-0.1045E-01
52	0.3609E+00	0.5902E-01	0.1256E+00	0.2591E-01	0.6253E-02	-0.1091E-01
53	0.3566E+00	-0.1786E+00	-0.4449E-01	0.1192E-01	0.5786E-02	-0.8758E-02
54	0.3499E+00	-0.4878E+00	0.3428E-01	-0.8707E-02	-0.1400E-01	-0.9948E-02
55	0.3498E+00	-0.4952E+00	0.4508E-01	-0.9140E-02	-0.1464E-01	-0.1006E-01
56	0.2756E+00	-0.4921E+00	0.1121E+00	-0.1264E-01	-0.1958E-01	-0.1172E-01
57	0.2301E+00	-0.4626E+00	0.1121E+00	-0.1335E-01	-0.1859E-01	-0.1258E-01
58	0.1945E+00	-0.4351E+00	0.1122E+00	-0.1384E-01	-0.1717E-01	-0.1316E-01
59	0.1462E+00	-0.3923E+00	0.1122E+00	-0.1428E-01	-0.1515E-01	-0.1421E-01
103	0.1460E+00	-0.3421E+00	0.6413E-01	-0.1351E-01	-0.8326E-02	-0.1228E-01
104	0.1453E+00	-0.2268E+00	0.6493E-01	-0.1033E-01	0.4336E-02	-0.1538E-01
105	0.1451E+00	-0.1748E+00	0.7734E-01	-0.9309E-02	0.3411E-02	-0.1948E-01
106	0.1449E+00	-0.1102E+00	0.8398E-01	-0.8285E-02	0.7394E-03	-0.2328E-01
107	0.1438E+00	0.1716E+00	-0.4556E-02	-0.4359E-02	-0.1838E-01	-0.2093E-01
109	0.1116E+00	0.2071E+00	-0.3491E-01	-0.3765E-02	-0.2178E-01	-0.1665E-01
111	0.4730E-01	0.2159E+00	-0.3489E-01	-0.1061E-02	-0.1233E-01	-0.9214E-02
112	0.3552E-01	0.2163E+00	-0.3488E-01	0.6064E-03	-0.2626E-02	-0.6090E-02
60	0.1037E+00	-0.3487E+00	0.1122E+00	-0.1437E-01	-0.1339E-01	-0.1529E-01
61	0.6621E-01	-0.3054E+00	0.1123E+00	-0.1407E-01	-0.1184E-01	-0.1637E-01
62	0.6329E-01	-0.3019E+00	0.1123E+00	-0.1402E-01	-0.1172E-01	-0.1646E-01
63	0.2621E-01	-0.1852E+00	0.7959E-01	-0.1166E-01	-0.7352E-02	-0.1810E-01
64	0.2641E-01	0.1204E-01	0.1713E-01	-0.6670E-02	-0.4368E-02	-0.1643E-01
65	0.2649E-01	0.8910E-01	-0.2208E-02	-0.4401E-02	-0.3519E-02	-0.1379E-01
131	0.7088E-01	0.8913E-01	-0.1643E-01	-0.4411E-02	-0.3519E-02	-0.1381E-01
132	0.1163E+00	0.8917E-01	-0.3091E-01	-0.4140E-02	-0.3519E-02	-0.1392E-01
66	0.2681E-01	0.1516E+00	-0.1809E-01	-0.2296E-02	-0.2824E-02	-0.1093E-01
67	0.2708E-01	0.1925E+00	-0.2883E-01	-0.5075E-03	-0.2228E-02	-0.8085E-02
68	0.2727E-01	0.2137E+00	-0.3488E-01	0.7547E-03	-0.1805E-02	-0.5859E-02
69	0.2742E-01	0.2279E+00	-0.3906E-01	0.2080E-02	-0.9912E-03	-0.3405E-02
70	0.2754E-01	0.2335E+00	-0.4060E-01	0.3074E-02	-0.3874E-03	-0.1448E-02
71	0.2779E-01	0.2296E+00	-0.3919E-01	0.5284E-02	0.9328E-03	0.3249E-02
133	0.1706E-01	0.2297E+00	-0.2179E-01	0.5319E-02	0.9328E-03	0.3272E-02
134	0.6450E-02	0.2298E+00	-0.4510E-02	0.5315E-02	0.9324E-03	0.3266E-02
72	0.2811E-01	0.2017E+00	-0.3125E-01	0.7008E-02	0.2476E-02	0.7305E-02
73	0.2951E-01	-0.4405E-01	0.1447E+00	0.1467E-01	0.1504E-01	0.1022E-01
74	0.2967E-01	-0.6863E-01	0.1858E+00	0.1553E-01	0.1652E-01	0.8993E-02
75	0.2998E-01	-0.1067E+00	0.2735E+00	0.1726E-01	0.1679E-01	0.5620E-02
76	0.3028E-01	-0.1248E+00	0.3536E+00	0.1898E-01	0.1368E-01	0.1110E-02
77	0.3043E-01	-0.1248E+00	0.3559E+00	0.1984E-01	0.1094E-01	-0.1537E-02
78	0.3042E-01	-0.1175E+00	0.4254E+00	0.1842E-01	0.9714E-02	-0.2075E-02
9021	0.3030E-01	-0.1448E+00	0.4574E+00	0.1153E-01	-0.5891E-02	-0.4712E-02
79	0.3015E-01	0.1290E+00	0.1686E+00	0.4246E-02	-0.1180E-01	-0.4842E-02
80	0.3009E-01	0.1791E+00	0.4610E-01	0.1478E-02	-0.1013E-01	-0.4559E-02
81	0.3008E-01	0.1907E+00	0.1965E-01	0.7935E-03	-0.9339E-02	-0.4237E-02
82	0.5587E-01	0.2045E+00	-0.1046E-01	-0.1031E-02	-0.5386E-02	-0.3669E-02
9022	0.9175E-01	0.1289E+00	-0.1089E-01	-0.4295E-02	0.1632E-02	-0.2399E-02
83	0.2242E-01	0.1955E-01	-0.1132E-01	-0.3282E-02	0.2548E-02	-0.1128E-02
84	0.1666E-01	0.1223E-01	-0.1136E-01	-0.2923E-02	0.2289E-02	-0.1012E-02
85	0.1295E-01	0.7526E-02	-0.1139E-01	-0.2638E-02	0.2068E-02	-0.9296E-03
86	0.1398E-02	-0.1275E-02	-0.1678E-02	-0.4876E-03	0.4575E-03	-0.1404E-03
87	0.7257E-08	0.5656E-08	0.1378E-07	-0.1604E-09	0.1308E-10	-0.4120E-09

COUPLED MODE SHAPES (FOR SECONDARY MODE) MODE 26
FREQUENCY (HZ.) = 23.05658

MODAL DISP AT PRIMARY SYSTEM CONNETING DOF

DOF #	DISPLACEMENT
3041	-0.1378E-04
3042	0.0000E+00
3043	-0.7155E-05
3061	-0.1387E-04
3063	-0.2404E-04
3072	0.0000E+00
3081	0.2066E-05
3103	-0.8656E-04
3121	0.7219E-04
3122	0.0000E+00
3123	-0.1129E-03
3091	0.1248E-04
3092	0.0000E+00
3093	-0.5363E-04

MODAL DISPLACEMENTS AT SECONDARY SYSTEM DOF

NODE	DX	DY	DZ	ROT-X	ROT-Y	ROT-Z
1	-0.2066E-06	-0.1124E-06	0.1791E-06	-0.3885E-07	-0.5124E-07	-0.1748E-07
2	0.1216E+00	-0.1310E+00	0.1247E+00	-0.3972E-01	-0.5232E-01	-0.1170E-01
3	0.6687E+00	-0.7843E+00	0.1768E+01	-0.1237E+00	-0.1671E+00	-0.1708E-01
4	0.6618E+00	-0.5945E+00	0.7621E+01	-0.2638E+00	-0.2445E+00	0.5018E-01
5	0.6581E+00	0.5273E+00	0.1086E+02	-0.3342E+00	-0.2375E+00	0.1228E+00
9001	0.5881E+00	0.7781E+00	0.1113E+02	-0.3451E+00	-0.2333E+00	0.1459E+00
9002	0.3697E+00	0.9930E+00	0.1096E+02	-0.3579E+00	-0.2287E+00	0.1686E+00
6	0.3055E-01	0.1082E+01	0.1059E+02	-0.3717E+00	-0.2256E+00	0.1898E+00
7	-0.4131E+00	0.1081E+01	0.9547E+01	-0.3801E+00	-0.2234E+00	0.2014E+00
9003	-0.8286E+01	0.1076E+01	-0.4431E+01	-0.3095E+00	-0.1361E+00	0.1470E+00
9004	-0.8376E+01	0.1070E+01	-0.9776E+01	0.4794E-01	-0.1489E+00	-0.1446E+00
9	-0.1975E+00	0.1063E+01	-0.2059E+01	0.3095E+00	-0.1116E+00	-0.2244E+00
10	0.1154E+01	0.1061E+01	-0.4733E-01	0.3165E+00	-0.1052E+00	-0.1983E+00
9005	0.4905E+01	0.1052E+01	0.8321E+01	0.1674E+00	-0.7353E-01	-0.3212E-01
9006	0.3425E+01	0.1043E+01	0.8806E+01	-0.1400E+00	-0.4189E-01	0.1081E+00

11	-0.1938E+00	0.1033E+01	0.8363E+00	-0.3227E+00	-0.1025E-01	0.8493E-01
12	-0.8243E+00	0.1029E+01	-0.2672E+01	-0.1221E+00	0.6258E-03	0.2636E-01
9007	-0.8525E+00	0.1033E+01	-0.3273E+01	-0.3155E+00	0.2058E-02	0.2002E-02
9008	-0.8396E+00	0.1016E+01	-0.3707E+01	-0.3085E+00	0.2103E-02	-0.2210E-01
13	-0.8244E+00	0.9503E+00	-0.3867E+01	-0.3015E+00	0.1740E-02	-0.4424E-01
14	-0.8249E+00	0.8031E+00	-0.3873E+01	-0.2920E+00	0.1679E-03	-0.5837E-01
15	-0.8259E+00	0.3771E+00	-0.3855E+01	-0.2712E+00	-0.9329E-02	-0.7713E-01
16	-0.8278E+00	-0.8556E+00	-0.3466E+01	-0.2227E+00	-0.5053E-01	-0.9818E-01
17	-0.8983E+00	-0.8891E+00	-0.3307E+01	-0.2112E+00	-0.7047E-01	-0.1058E+00
18	-0.1305E+01	-0.4372E+00	-0.2901E+01	-0.1917E+00	-0.9391E-01	-0.1122E+00
19	-0.2055E+01	-0.6688E-02	-0.2153E+01	-0.1654E+00	-0.1200E+00	-0.1201E+00
20	-0.4606E+01	0.7278E-01	0.3959E+00	-0.1016E+00	-0.1469E+00	-0.1351E+00
21	-0.4468E+01	-0.4411E-01	0.4526E+00	-0.8092E-01	-0.1458E+00	-0.1433E+00
9009	0.1024E+01	-0.4469E-01	-0.1171E+01	0.4579E-03	-0.1320E+00	-0.1094E+00
9010	0.3140E+01	-0.4522E-01	-0.4682E-02	0.4428E-01	-0.1182E+00	0.1291E-01
22	0.7343E+00	-0.4568E-01	0.1346E+01	0.9597E-02	-0.1043E+00	0.7862E-01
23	0.9017E-01	-0.4576E-01	0.1360E+01	-0.6585E-02	-0.1014E+00	0.7053E-01
24	-0.8526E+00	-0.4592E-01	0.1011E+01	-0.1435E-01	-0.9576E-01	0.4354E-01
9011	-0.1299E+01	-0.4619E-01	-0.5718E+00	-0.4892E-01	-0.8424E-01	-0.1649E-01
9012	-0.5453E-01	-0.4642E-01	-0.1657E+01	-0.8536E-02	-0.7273E-01	-0.4868E-01
25	0.1352E+01	-0.4661E-01	-0.1032E+01	0.4195E-01	-0.6121E-01	-0.2581E-01
26	0.1526E+01	-0.4665E-01	-0.5852E+00	0.5099E-01	-0.5791E-01	-0.1044E-01
9013	0.9557E+00	-0.4679E-01	0.1256E+01	0.4017E-01	-0.4571E-01	0.3873E-01
9014	-0.6899E+00	-0.4687E-01	0.1753E+01	-0.1446E-01	-0.3349E-01	0.4232E-01
27	-0.1440E+01	-0.4691E-01	0.5622E+00	-0.4057E-01	-0.2127E-01	-0.6068E-02
28	-0.1199E+01	-0.4691E-01	0.7138E-01	-0.3087E-01	-0.1670E-01	-0.2994E-01
29	-0.3230E+00	-0.4688E-01	-0.3163E+00	-0.8548E-02	-0.9795E-02	-0.5354E-01
9015	0.1549E+01	-0.4678E-01	-0.7544E-01	0.1701E-01	0.3088E-02	-0.3094E-01
9016	0.1399E+01	-0.4662E-01	0.6127E+00	0.1468E-01	0.1597E-01	0.3972E-01
30	-0.9890E+00	-0.4641E-01	0.8644E+00	-0.4219E-03	0.2885E-01	0.7541E-01
31	-0.1065E+01	-0.4641E-01	0.8637E+00	-0.7559E-03	0.2920E-01	0.7535E-01
32	-0.1231E+01	-0.4631E-01	0.8594E+00	-0.2312E-02	0.3040E-01	0.7463E-01
35	-0.1230E+01	-0.3626E-01	0.8563E+00	-0.3523E-02	0.3219E-01	0.7375E-01
37	-0.9440E+00	0.1355E-03	0.8561E+00	-0.4935E-02	0.3599E-01	0.7175E-01
9017	0.3065E+00	0.1795E+00	0.8540E+00	-0.4511E-02	0.3458E-01	0.6404E-01
9018	0.9885E+00	0.2283E+00	0.8511E+00	0.1979E-02	0.2833E-02	0.5634E-01
38	0.4145E+00	0.6635E-01	0.8475E+00	0.7046E-02	-0.3637E-01	0.4864E-01
39	-0.1601E-01	-0.9526E-02	0.8462E+00	0.7400E-02	-0.4609E-01	0.4617E-01
9019	-0.1617E+01	-0.2197E+00	0.8406E+00	0.3661E-02	-0.3377E-01	0.3806E-01
40	-0.1796E+01	-0.2293E+00	0.8341E+00	-0.2747E-02	0.2538E-01	0.2996E-01
41	-0.4301E+00	-0.1196E+00	0.8278E+00	-0.3237E-02	0.5962E-01	0.2295E-01
43	-0.2011E+00	-0.2765E-01	0.5980E+00	-0.1638E-02	0.5816E-01	0.2095E-01
44	-0.2010E+00	0.2338E-02	0.5133E+00	-0.1320E-02	0.5681E-01	0.2061E-01
45	-0.2008E+00	0.7922E-01	0.3041E+00	-0.4791E-03	0.4975E-01	0.1956E-01
9020	-0.1992E+00	0.4711E+00	-0.2946E+00	0.5815E-02	-0.1567E-02	0.6230E-02
46	-0.1974E+00	0.4017E+00	0.3490E-01	0.1211E-01	-0.1400E-01	-0.1068E-01
47	-0.1972E+00	0.3671E+00	0.7591E-01	0.1277E-01	-0.1284E-01	-0.1229E-01
91	-0.1603E+00	0.3672E+00	0.1144E+00	0.1276E-01	-0.1204E-01	-0.1217E-01
92	-0.1088E-01	0.3676E+00	0.2514E+00	0.1090E-01	-0.6249E-02	-0.1043E-01
93	-0.1053E-01	0.3352E+00	0.2877E+00	0.7688E-02	-0.3057E-02	-0.8352E-02
94	-0.1854E-01	0.3117E+00	0.2878E+00	0.7179E-02	-0.2020E-02	-0.7142E-02
95	-0.2494E-01	0.2769E+00	0.2879E+00	0.7233E-02	-0.7134E-03	-0.5275E-02
96	-0.2569E-01	0.2393E+00	0.2879E+00	0.8054E-02	0.2152E-03	-0.3408E-02
97	-0.2562E-01	0.2373E+00	0.2879E+00	0.8113E-02	0.2510E-03	-0.3315E-02
98	-0.2878E-01	0.2035E+00	0.2509E+00	0.1102E-01	0.1491E-02	-0.7870E-03
100	-0.2997E-01	0.2035E+00	0.1583E+00	0.1230E-01	0.1967E-02	0.6844E-04
101	-0.2895E-01	0.2036E+00	0.1601E+00	0.1312E-01	0.2284E-02	0.4553E-03
102	-0.2643E-01	0.2037E+00	0.1097E+00	0.1363E-01	0.2626E-02	0.7162E-03
113	-0.1468E-01	0.1205E+00	0.1602E+00	0.1468E-01	0.2529E-02	0.5695E-03
114	-0.3464E-02	0.5636E-01	0.1602E+00	0.1518E-01	0.2744E-02	0.6758E-03
115	0.8623E-02	-0.7786E-02	0.1602E+00	0.1462E-01	0.2936E-02	0.7822E-03
116	0.2776E-01	-0.9206E-01	0.1602E+00	0.1173E-01	0.3175E-02	0.9387E-03
118	0.3262E-01	-0.1151E+00	0.1803E+00	0.7244E-02	0.3343E-02	0.1029E-02
9023	-0.1998E-02	-0.1157E+00	0.1242E+00	-0.9129E-02	0.4554E-02	0.1294E-02
120	-0.3544E-01	-0.1161E+00	-0.1871E+00	-0.9121E-02	0.5766E-02	0.9556E-03
122	-0.2428E-01	-0.9888E-01	-0.2058E+00	-0.6977E-02	0.5943E-02	0.8356E-03
124	0.1155E-02	-0.7190E-01	-0.2058E+00	-0.6010E-02	0.6059E-02	0.7317E-03
125	0.6257E-01	-0.1382E-01	-0.2058E+00	-0.6081E-02	0.5910E-02	0.4835E-03
127	0.7647E-01	0.6347E-03	-0.1905E+00	-0.7229E-02	0.5567E-02	0.3237E-03
129	0.6530E-01	0.3746E-03	-0.7336E-02	-0.4279E-02	0.3282E-02	-0.1535E-02
9024	0.2596E-01	0.1873E-03	0.1638E-01	0.7291E-03	0.1641E-02	-0.2242E-02
130	0.1276E-08	0.4096E-08	0.2152E-08	0.2715E-09	0.9320E-10	-0.2836E-09
48	-0.1970E+00	0.3272E+00	0.1143E+00	0.1324E-01	-0.1251E-01	-0.1371E-01
49	-0.1967E+00	0.2540E+00	0.1750E+00	0.1403E-01	-0.1146E-01	-0.1443E-01
50	-0.1964E+00	0.1790E+00	0.2289E+00	0.1482E-01	-0.9909E-02	-0.1417E-01
51	-0.1963E+00	0.1577E+00	0.2434E+00	0.1506E-01	-0.9379E-02	-0.1359E-01
52	-0.1959E+00	0.9017E-01	0.2894E+00	0.1593E-01	-0.7200E-02	-0.9903E-02
53	-0.1941E+00	0.6626E-01	0.3345E+00	0.1976E-01	0.3633E-02	0.5774E-02
54	-0.1913E+00	0.3938E+00	-0.1140E-01	0.2541E-01	0.1334E-01	0.8567E-02
55	-0.1912E+00	0.4002E+00	-0.2150E-01	0.2553E-01	0.1339E-01	0.8384E-02
56	-0.1411E+00	0.3292E+00	-0.7238E-01	0.2691E-01	0.1185E-01	0.5980E-02
57	-0.1147E+00	0.2683E+00	-0.7242E-01	0.2719E-01	0.1060E-01	0.5252E-02
58	-0.9504E-01	0.2136E+00	-0.7246E-01	0.2742E-01	0.9280E-02	0.4607E-02
59	-0.7022E-01	0.1308E+00	-0.7251E-01	0.2772E-01	0.7462E-02	0.3639E-02
101	-0.7017E-01	0.1277E+00	-0.5144E-01	0.2797E-01	0.1982E-02	-0.4754E-02
104	-0.6994E-01	0.2459E+00	-0.9049E-01	0.2898E-01	-0.6610E-02	-0.1381E-01
105	-0.6986E-01	0.2808E+00	-0.1084E+00	0.2931E-01	-0.4900E-02	-0.8716E-02
106	-0.6976E-01	0.2973E+00	-0.1190E+00	0.2964E-01	-0.2064E-02	-0.2488E-02
107	-0.6935E-01	0.2599E+00	-0.8144E-01	0.3090E-01	0.8156E-02	0.3482E-02
109	-0.5563E-01	0.2094E+00	-0.6826E-01	0.3098E-01	0.9099E-02	0.2923E-03
111	-0.2961E-01	0.1087E+00	-0.6825E-01	0.2793E-01	0.4777E-02	-0.5555E-02
112	-0.2524E-01	0.7065E-01	-0.6825E-01	0.2555E-01	0.8210E-03	-0.8010E-02
60	-0.5048E-01	0.4718E-01	-0.7255E-01	0.2792E-01	0.5935E-02	0.2851E-02
61	-0.3499E-01	-0.3690E-01	-0.7260E-01	0.2801E-01	0.4626E-02	0.2064E-02
62	-0.3388E-01	-0.4390E-01	-0.7260E-01	0.2801E-01	0.4527E-02	0.1998E-02
63	-0.2253E-01	-0.1519E+00	-0.6465E-01	0.2762E-01	0.1150E-02	-0.5784E-04
64	-0.2274E-01	-0.1343E+00	-0.6342E-01	0.2708E-01	-0.4440E-03	-0.3448E-02
65	-0.2283E-01	-0.1124E+00	-0.6628E-01	0.2683E-01	-0.4969E-03	-0.5414E-02
131	-0.5136E-02	-0.1125E+00	0.2105E-01	0.2695E-01	-0.4969E-03	-0.5441E-02
132	0.1262E-01	-0.1125E+00	0.1092E+00	0.2706E-01	-0.4969E-03	-0.5454E-02
66	-0.2295E-01	-0.8058E-01	-0.6838E-01	0.2621E-01	-0.2546E-03	-0.7012E-02

67	-0.2305E-01	-0.4834E-01	-0.6689E-01	0.2568E-01	0.8915E-04	-0.7869E-02
68	-0.2312E-01	-0.2387E-01	-0.6825E-01	0.2531E-01	0.4047E-03	-0.8192E-02
69	-0.2318E-01	0.1251E-02	-0.6680E-01	0.2483E-01	0.6167E-03	-0.8334E-02
70	-0.2322E-01	0.2020E-01	-0.6525E-01	0.2466E-01	0.8089E-03	-0.8305E-02
71	-0.2331E-01	0.6127E-01	-0.6005E-01	0.2365E-01	0.1333E-02	-0.7828E-02
133	0.2201E-02	0.6129E-01	0.1693E-01	0.2375E-01	0.1333E-02	-0.7864E-02
134	0.2790E-01	0.6132E-01	0.9462E-01	0.2385E-01	0.1333E-02	-0.7892E-02
72	-0.2340E-01	0.9820E-01	-0.5191E-01	0.2248E-01	0.1903E-02	-0.6888E-02
73	-0.2382E-01	0.1989E+00	0.1368E-01	0.1729E-01	0.3784E-02	-0.1962E-02
74	-0.2386E-01	0.2030E+00	0.2346E-01	0.1671E-01	0.3876E-02	-0.1362E-02
75	-0.2395E-01	0.2069E+00	0.4303E-01	0.1554E-01	0.3730E-02	-0.2563E-03
76	-0.2404E-01	0.2055E+00	0.6078E-01	0.1437E-01	0.3180E-02	0.5413E-03
77	-0.2408E-01	0.2037E+00	0.6838E-01	0.1379E-01	0.2768E-02	0.7565E-03
78	-0.2409E-01	0.2003E+00	0.7857E-01	0.1325E-01	0.2304E-02	0.9976E-03
9021	-0.2417E-01	0.1389E+00	0.9765E-01	0.9387E-02	-0.9003E-03	0.3448E-02
79	-0.2423E-01	0.1104E-01	0.4220E-01	0.5523E-02	-0.2465E-02	0.5013E-02
80	-0.2425E-01	-0.4334E-01	0.1590E-01	0.4055E-02	-0.2244E-02	0.4898E-02
81	-0.2426E-01	-0.5642E-01	0.9993E-02	0.3692E-02	-0.2106E-02	0.4807E-02
82	-0.1803E-01	-0.6221E-01	0.2972E-02	0.2820E-02	-0.1389E-02	0.4494E-02
9022	-0.8141E-03	-0.1544E-01	0.2874E-02	0.1049E-02	-0.1334E-03	0.2858E-02
83	-0.3054E-02	0.4100E-03	0.2775E-02	0.3555E-03	0.1321E-03	0.1222E-02
84	-0.3349E-02	0.1205E-02	0.2765E-02	0.3389E-03	0.1074E-03	0.1073E-02
85	-0.3520E-02	0.1754E-02	0.2760E-02	0.3318E-03	0.8525E-04	0.9668E-03
86	-0.1109E-02	0.1127E-02	0.1294E-02	0.2542E-03	-0.7187E-04	0.3947E-03
87	0.9400E-09	0.9693E-09	0.3277E-08	0.2868E-09	-0.1701E-09	0.3294E-09

COUPLED MODE SHAPES (FOR SECONDARY MODE) MODE 27
FREQUENCY (HZ.) = 23.49154

MODAL DISP AT PRIMARY SYSTEM CONNETING DOF

DOF #	DISPLACEMENT
3041	0.7585E-04
3042	0.0000E+00
3043	0.9792E-05
3061	0.1074E-03
3063	0.3291E-04
3072	0.0000E+00
3081	0.7672E-04
3103	0.1185E-03
3121	-0.1180E-03
3122	0.0000E+00
3123	0.1546E-03
3091	0.4888E-04
3092	0.0000E+00
3093	0.7340E-04

MODAL DISPLACEMENTS AT SECONDARY SYSTEM DOF

NODE	DX	DY	DZ	ROT-X	ROT-Y	ROT-Z
1	0.3935E-06	0.1178E-06	0.9320E-07	-0.9864E-08	-0.7117E-07	0.1265E-07
2	0.1632E+00	0.2592E-03	0.1606E+00	-0.1617E-01	-0.6010E-01	0.1333E-01
3	0.7001E+00	0.7964E-01	0.1600E+01	-0.7552E-01	-0.1232E+00	0.1610E-01
4	0.7123E+00	-0.5312E+00	0.5214E+01	-0.1915E+00	-0.1360E+00	-0.8409E-01
5	0.7182E+00	-0.2205E+01	0.8964E+01	-0.2499E+00	-0.1263E+00	-0.1823E+00
9001	0.8211E+00	-0.2635E+01	0.7069E+01	-0.2589E+00	-0.1235E+00	-0.2136E+00
9002	0.1139E+01	-0.2948E+01	0.6871E+01	-0.2691E+00	-0.1207E+00	-0.2443E+00
6	0.1639E+01	-0.3076E+01	0.6417E+01	-0.2800E+00	-0.1191E+00	-0.2724E+00
7	0.2264E+01	-0.3076E+01	0.5779E+01	-0.2864E+00	-0.1182E+00	-0.2875E+00
9003	0.1297E+02	-0.3067E+01	-0.4559E+01	-0.2171E+00	-0.1043E+00	-0.1792E+00
9004	0.1179E+02	-0.3055E+01	-0.7664E+01	0.6272E-01	-0.9045E-01	0.2328E+00
9	0.5227E+00	-0.3039E+01	-0.1526E+01	0.2112E+00	-0.7657E-01	0.2557E+00
10	-0.9215E+00	-0.3035E+01	-0.1993E+00	0.2004E+00	-0.7417E-01	0.1984E+00
9005	-0.3247E+01	-0.3015E+01	0.4220E+01	0.6484E-01	-0.6238E-01	-0.3437E-01
9006	-0.2176E+00	-0.2892E+01	0.3570E+01	-0.9867E-01	-0.5059E-01	-0.1249E+00
11	0.2510E+01	-0.2966E+01	-0.8755E+00	-0.1566E+00	-0.3880E-01	-0.1373E-01
12	0.2238E+01	-0.2957E+01	-0.2487E+01	-0.1392E+00	-0.3475E-01	0.6851E-01
9007	0.2081E+01	-0.2910E+01	-0.2723E+01	-0.1303E+00	-0.3469E-01	0.9878E-01
9008	0.1925E+01	-0.2749E+01	-0.2855E+01	-0.1218E+00	-0.3564E-01	0.1260E+00
13	0.1856E+01	-0.2483E+01	-0.2843E+01	-0.1142E+00	-0.3657E-01	0.1469E+00
14	0.1857E+01	-0.2052E+01	-0.2742E+01	-0.1038E+00	-0.3748E-01	0.1557E+00
15	0.1857E+01	-0.1102E+01	-0.2508E+01	-0.8109E-01	-0.4200E-01	0.1447E+00
16	0.1858E+01	0.4397E-30	-0.1819E+01	-0.2851E-01	-0.5712E-01	0.7990E-01
17	0.1791E+01	0.6448E+00	-0.1659E+01	-0.1456E-01	-0.6328E-01	0.5854E-01
18	0.1461E+01	0.8939E+00	-0.1330E+01	0.2239E-02	-0.7127E-01	0.3301E-01
19	0.9291E+00	0.9281E+00	-0.7974E+00	0.2009E-01	-0.8169E-01	0.2795E-02
20	-0.7160E+00	-0.3154E-01	0.8485E+00	0.2830E-01	-0.9251E-01	-0.3809E-01
21	-0.8147E+00	-0.2048E+00	0.1179E+01	0.1891E-01	-0.9004E-01	-0.3837E-01
9009	0.4910E+00	-0.2086E+00	0.1027E+01	-0.2668E-01	-0.7831E-01	-0.2136E-01
9010	0.7154E+00	-0.2120E+00	-0.4883E+00	-0.3639E-01	-0.6657E-01	0.9481E-02
22	0.1233E+00	-0.2152E+00	-0.1162E+01	0.9259E-02	-0.5484E-01	0.1050E-01
23	0.6079E-01	-0.2159E+00	-0.1026E+01	0.2263E-01	-0.5235E-01	0.3499E-02
24	0.1174E+00	-0.2170E+00	-0.4785E+00	0.4190E-01	-0.4756E-01	-0.8769E-02
9011	0.5254E+00	-0.2191E+00	0.1024E+01	0.3698E-01	-0.3779E-01	-0.1047E-01
9012	0.6103E+00	-0.2210E+00	0.1524E+01	-0.1076E-01	-0.2802E-01	0.6772E-02
25	0.1253E+00	-0.2227E+00	0.4191E+00	-0.4811E-01	-0.1825E-01	0.1924E-01
26	-0.6055E-01	-0.2231E+00	-0.5492E-01	-0.5056E-01	-0.1546E-01	0.1945E-01
9013	-0.5825E+00	-0.2246E+00	-0.1526E+01	-0.2241E-01	-0.5096E-02	0.6283E-02
9014	-0.4238E+00	-0.2258E+00	-0.1406E+01	0.2612E-01	0.5273E-02	-0.1395E-01
27	0.1966E+00	-0.2268E+00	-0.2871E+00	0.2185E-01	0.1564E-01	-0.1613E-01
28	0.3744E+00	-0.2271E+00	-0.1424E+00	-0.3006E-02	0.1952E-01	-0.1006E-01
29	0.4577E+00	-0.2274E+00	-0.5795E+00	-0.3455E-01	0.2537E-01	0.1918E-02
9015	0.5508E-01	-0.2278E+00	-0.1864E+01	-0.1910E-01	0.3630E-01	0.1672E-01
9016	-0.5627E+00	-0.2278E+00	-0.1599E+01	0.2960E-01	0.4723E-01	0.1289E-01
30	-0.8608E+00	-0.2276E+00	-0.4841E+00	0.1036E-01	0.5816E-01	0.5267E-02
31	-0.8659E+00	-0.2276E+00	-0.4744E+00	0.8258E-02	0.5846E-01	0.5246E-02
32	-0.8147E+00	-0.2281E+00	-0.4667E+00	-0.4002E-02	0.5931E-01	0.5311E-02

35	-0.6619E+00	-0.1994E+00	-0.4756E+00	-0.1713E-01	0.6004E-01	0.5616E-02
37	-0.1540E+00	0.3120E-01	-0.4749E+00	-0.3725E-01	0.5965E-01	0.6785E-02
9017	0.1420E+01	0.1855E+01	-0.4717E+00	-0.5364E-01	0.2927E-01	0.1127E-01
9018	0.1523E+01	0.2633E+01	-0.4680E+00	0.1264E-01	-0.2183E-01	0.1576E-01
38	0.3800E+00	0.1043E+01	-0.4638E+00	0.7642E-01	-0.1754E-01	0.2025E-01
39	0.2797E-01	0.1985E+00	-0.4624E+00	0.8437E-01	-0.2846E-01	0.2169E-01
9019	-0.3300E+00	-0.2332E+01	-0.4570E+00	0.4668E-01	0.4049E-02	0.2641E-01
40	0.5110E-02	-0.2435E+01	-0.4511E+00	-0.4016E-01	0.9686E-02	0.3114E-01
41	0.2334E-01	-0.5337E+00	-0.4456E+00	-0.7546E-01	-0.1292E-01	0.3522E-01
43	-0.4277E-01	-0.1200E+00	-0.3666E+00	-0.7232E-01	-0.2306E-01	0.3446E-01
44	-0.4274E-01	-0.7016E-01	-0.3316E+00	-0.7141E-01	-0.2339E-01	0.3397E-01
45	-0.4265E-01	0.5652E-01	-0.2405E+00	-0.6900E-01	-0.2176E-01	0.3225E-01
9020	-0.4192E-01	0.7074E+00	0.7875E-01	-0.5095E-01	-0.3161E-02	0.1070E-01
46	-0.4117E-01	0.6131E+00	0.8236E-01	-0.3290E-01	-0.2489E-05	-0.1672E-01
47	-0.4109E-01	0.5588E+00	0.8300E-01	-0.3100E-01	-0.6338E-03	-0.1936E-01
91	0.1720E-01	0.5589E+00	-0.1090E-01	-0.3186E-01	-0.1024E-02	-0.1947E-01
92	0.2365E+00	0.5589E+00	-0.3960E+00	-0.3568E-01	-0.3839E-02	-0.1899E-01
93	0.2865E+00	0.6960E+00	-0.5320E+00	-0.3517E-01	-0.6017E-02	-0.1706E-01
94	0.2657E+00	0.8091E+00	-0.5321E+00	-0.3366E-01	-0.6916E-02	-0.1820E-01
95	0.2274E+00	0.9698E+00	-0.5322E+00	-0.2949E-01	-0.8593E-02	-0.1884E-01
96	0.1797E+00	0.1104E+01	-0.5321E+00	-0.2384E-01	-0.1041E-01	-0.1348E-01
97	0.1771E+00	0.1110E+01	-0.5321E+00	-0.2365E-01	-0.1050E-01	-0.1342E-01
98	0.8626E-01	0.1182E+01	-0.4741E+00	-0.1050E-01	-0.1351E-01	-0.1179E-01
100	0.3543E-01	0.1182E+01	-0.4397E+00	-0.4559E-02	-0.1552E-01	-0.1076E-01
101	0.4204E-02	0.1182E+01	-0.4320E+00	-0.3732E-03	-0.1687E-01	-0.1002E-01
102	-0.3125E-01	0.1182E+01	-0.4327E+00	0.1880E-02	-0.1661E-01	-0.9053E-02
113	-0.1150E+00	0.1139E+01	-0.4327E+00	0.1684E-01	-0.2409E-01	-0.1105E-01
114	-0.2291E+00	0.1043E+01	-0.4332E+00	0.2609E-01	-0.2906E-01	-0.1200E-01
115	-0.3611E+00	0.9228E+00	-0.4337E+00	9.2675E-01	-0.3275E-01	-0.1286E-01
116	-0.5796E+00	0.7939E+00	-0.4344E+00	0.8465E-02	-0.3677E-01	-0.1436E-01
118	-0.6313E+00	0.7990E+00	-0.4617E+00	-0.2442E-01	-0.3929E-01	-0.1518E-01
9023	-0.1185E+00	0.7927E+00	-0.2332E+01	-0.6750E-01	-0.5664E-01	-0.2012E-01
120	0.4436E+00	0.7857E+00	-0.2975E+01	0.3220E-01	-0.7398E-01	-0.1715E-01
122	0.3109E+00	0.6757E+00	-0.2881E+01	0.5485E-01	-0.7657E-01	-0.1529E-01
124	-0.1747E-01	0.4243E+00	-0.2881E+01	0.5885E-01	-0.7838E-01	-0.1362E-01
125	-0.8152E+00	-0.6906E-02	-0.2879E+01	9.9288E-02	-0.7694E-01	-0.9642E-02
127	-0.1003E+01	0.1759E-01	-0.2815E+01	-0.5014E-01	-0.7247E-01	-0.7231E-02
129	-0.9000E+00	0.1038E-01	-0.1756E+00	-0.7836E-01	-0.4273E-01	0.2022E-01
9024	-0.3624E+00	0.5191E-02	0.2791E+00	0.1170E-01	-0.2136E-01	0.3112E-01
130	-0.1821E-07	0.1135E-06	0.4171E-07	0.4723E-08	-0.1213E-08	0.3983E-08
48	-0.4105E-01	0.4565E+00	0.8522E-01	-0.2667E-01	-0.7371E-03	-0.2102E-01
49	-0.4099E-01	0.3868E+00	0.8913E-01	-0.1945E-01	-0.6952E-03	-0.2130E-01
50	-0.4092E-01	0.2836E+00	0.9216E-01	-0.1223E-01	-0.4661E-03	-0.1810E-01
51	-0.4089E-01	0.2567E+00	0.9282E-01	-0.1007E-01	-0.3765E-03	-0.1639E-01
52	-0.4081E-01	0.1863E+00	0.9392E-01	-0.2130E-02	0.2375E-04	-0.7176E-02
53	-0.4042E-01	0.5079E+00	0.6877E-01	0.3288E-01	0.2060E-02	0.2794E-01
54	-0.3980E-01	0.1753E+01	-0.4041E-01	0.8450E-01	0.3490E-02	0.3381E-01
55	-0.3978E-01	0.1778E+01	-0.4317E-01	0.8558E-01	0.3473E-02	0.3346E-01
56	-0.2996E-01	0.1551E+01	-0.5528E-01	0.9555E-01	0.1464E-02	0.2924E-01
57	-0.2727E-01	0.1334E+01	-0.5536E-01	0.9755E-01	0.7131E-03	0.2643E-01
58	-0.2661E-01	0.1136E+01	-0.5543E-01	0.9904E-01	0.6946E-05	0.2771E-01
59	-0.2821E-01	0.8355E+00	-0.5554E-01	0.1006E+00	-0.9986E-03	0.2662E-02
103	-0.2833E-01	0.7702E+00	-0.6327E-01	0.1001E+00	-0.4209E-02	-0.3662E-03
104	-0.2882E-01	0.9838E+00	-0.1270E+00	0.9810E-01	-0.6593E-02	-0.2144E-03
105	-0.2898E-01	0.1020E+01	-0.1434E+00	0.9745E-01	-0.4010E-02	-0.4104E-03
106	-0.2913E-01	0.9840E+00	-0.1510E+00	0.9679E-01	-0.1274E-02	0.2340E-01
107	-0.2969E-01	0.5044E+00	-0.1602E+00	0.9426E-01	-0.4367E-02	0.3663E-01
109	-0.3921E-01	0.3148E+00	-0.1685E+00	0.9357E-01	-0.6814E-02	0.2066E-01
111	-0.5965E-01	0.1648E-01	-0.1684E+00	0.8047E-01	-0.3241E-02	-0.7986E-02
112	-0.6170E-01	-0.9149E-01	-0.1684E+00	0.7097E-01	0.1099E-02	-0.2001E-01
60	-0.3257E-01	0.5309E+00	-0.5565E-01	0.1014E+00	-0.1925E-02	0.2615E-01
61	-0.3973E-01	0.2255E+00	-0.5575E-01	0.1012E+00	-0.2868E-02	0.2567E-01
62	-0.4045E-01	0.2001E+00	-0.5576E-01	0.1011E+00	-0.2947E-02	0.2563E-01
63	-0.5616E-01	-0.2661E+00	-0.7483E-01	0.9619E-01	-0.5808E-02	0.2245E-01
64	-0.5614E-01	-0.4620E+00	-0.1413E+00	0.8661E-01	-0.5092E-02	0.1014E-01
65	-0.5613E-01	-0.4914E+00	-0.1631E+00	0.8225E-01	-0.3099E-02	0.3221E-03
131	-0.5674E-01	-0.4915E+00	0.1044E+00	0.8262E-01	-0.3099E-02	0.3029E-03
132	-0.5801E-01	-0.4918E+00	0.3749E+00	0.8301E-01	-0.3099E-02	0.3632E-03
66	-0.5630E-01	-0.4669E+00	-0.1723E+00	0.7726E-01	-0.8339E-03	-0.9404E-02
67	-0.5645E-01	-0.4104E+00	-0.1721E+00	0.7303E-01	0.7103E-03	-0.1653E-01
68	-0.5655E-01	-0.3533E+00	-0.1684E+00	0.7003E-01	0.1581E-02	-0.2090E-01
69	-0.5667E-01	-0.2838E+00	-0.1620E+00	0.6561E-01	0.2442E-02	-0.2496E-01
70	-0.5676E-01	-0.2240E+00	-0.1557E+00	0.6403E-01	0.2946E-02	-0.2770E-01
71	-0.5697E-01	-0.7096E-01	-0.1365E+00	0.5832E-01	0.3617E-02	-0.3282E-01
133	0.4970E-01	-0.7099E-01	0.5131E-01	0.5858E-01	0.3617E-02	-0.3296E-01
134	0.1577E+00	-0.7102E-01	0.2430E+00	0.5883E-01	0.3617E-02	-0.3313E-01
72	-0.5704E-01	0.1041E+00	-0.1195E+00	0.5160E-01	0.3369E-02	-0.3622E-01
73	-0.5738E-01	0.9011E+00	-0.1744E+00	0.2282E-01	-0.1286E-01	-0.2865E-01
74	-0.5741E-01	0.9694E+00	-0.2117E+00	0.1957E-01	-0.1563E-01	-0.2559E-01
75	-0.5748E-01	0.1081E+01	-0.3014E+00	0.1305E-01	-0.1845E-01	-0.1871E-01
76	-0.5753E-01	0.1157E+01	-0.3962E+00	0.6533E-02	-0.1792E-01	-0.1181E-01
77	-0.5756E-01	0.1182E+01	-0.4407E+00	0.3277E-02	-0.1650E-01	-0.8714E-02
78	-0.5754E-01	0.1206E+01	-0.5006E+00	0.4005E-02	-0.1334E-01	-0.3136E-02
9021	-0.5743E-01	0.7654E+00	-0.5742E+00	0.9201E-02	0.7393E-02	0.3202E-01
79	-0.5727E-01	-0.4348E+00	-0.1897E+00	0.1440E-01	0.1599E-01	0.4638E-01
80	-0.5720E-01	-0.9324E+00	-0.2332E+01	0.1637E-01	0.1380E-01	0.4638E-01
81	-0.5718E-01	-0.1051E+01	0.1272E-01	0.1686E-01	0.1274E-01	0.4342E-01
82	-0.9253E-01	-0.1141E+01	0.5385E-01	0.1877E-01	0.7413E-02	0.3943E-01
9022	-0.1437E+00	-0.6108E+00	0.5446E-01	0.2193E-01	-0.2154E-02	0.2687E-01
83	-0.5124E-01	-0.9429E-01	0.5500E-01	0.1567E-01	-0.3115E-02	0.1031E-01
84	-0.4378E-01	-0.5902E-01	0.5505E-01	0.1434E-01	-0.2934E-02	0.8981E-02
85	-0.3905E-01	-0.3579E-01	0.5509E-01	0.1331E-01	-0.2609E-02	0.8033E-02
86	-0.8270E-02	0.8008E-02	0.1483E-01	0.5477E-02	-0.4316E-03	0.2995E-02
87	-0.1072E-07	-0.1658E-07	-0.1665E-07	0.3604E-08	-0.3728E-09	0.2327E-08

COUPLED MODE SHAPES (FOR SECONDARY MODE) MODE 28
FREQUENCY (HZ.) = 23.62509

MODAL DISP AT PRIMARY SYSTEM CONNETING DOF

DOF #	DISPLACEMENT
3041	0.1173E-04
3042	0.0000E+00
3043	-0.3853E-05
3061	0.9184E-05
3063	-0.1295E-04
3072	0.0000E+00
3081	-0.9188E-05
3103	-0.4662E-04
3121	-0.8502E-04
3122	0.0000E+00
3123	0.6083E-04
3091	-0.2054E-04
3092	0.0000E+00
3093	-0.2888E-04

MODAL DISPLACEMENTS AT SECONDARY SYSTEM DOF

NODE	DX	DY	DZ	ROT-X	ROT-Y	ROT-Z
1	0.8104E-07	0.1968E-07	0.2869E-07	-0.4285E-08	-0.1819E-07	0.1393E-08
2	0.4233E-01	-0.7603E-02	0.4191E-01	-0.5651E-02	-0.1591E-01	0.1792E-02
3	0.1878E+00	-0.4080E-01	0.4395E+00	-0.2316E-01	-0.3515E-01	0.1046E-02
4	0.1903E+00	-0.2296E+00	0.1513E+01	-0.5626E-01	-0.4154E-01	-0.1911E-01
5	0.1915E+00	-0.6018E+00	0.2052E+01	-0.7290E-01	-0.3927E-01	-0.3791E-01
9001	0.2127E+00	-0.6782E+00	0.2088E+01	-0.7546E-01	-0.3856E-01	-0.4390E-01
9002	0.2778E+00	-0.7423E+00	0.2034E+01	-0.7837E-01	-0.3779E-01	-0.4977E-01
6	0.3771E+00	-0.7683E+00	0.1903E+01	-0.8150E-01	-0.3736E-01	-0.5512E-01
7	0.5055E+00	-0.7683E+00	0.1717E+01	-0.8334E-01	-0.3718E-01	-0.5798E-01
9003	0.2620E+01	-0.7664E+00	-0.1291E+01	-0.6332E-01	-0.3398E-01	-0.3417E-01
9004	0.2324E+01	-0.7636E+00	-0.2207E+01	0.1776E-01	-0.3078E-01	0.4744E-01
8	0.1177E+00	-0.7599E+00	-0.4404E+00	0.6092E-01	-0.2758E-01	0.4697E-01
10	-0.1409E+00	-0.7590E+00	-0.5765E-01	0.5760E-01	-0.2702E-01	0.3452E-01
9005	-0.4360E+00	-0.7542E+00	0.1213E+01	0.1834E-01	-0.2430E-01	-0.1092E-01
9006	0.1917E+00	-0.7487E+00	0.1003E+01	-0.2955E-01	-0.2158E-01	-0.2189E-01
11	0.5392E+00	-0.7425E+00	-0.3295E+00	-0.4743E-01	-0.1886E-01	0.5850E-02
12	0.3866E+00	-0.7402E+00	-0.8216E+00	-0.4308E-01	-0.1793E-01	0.2282E-01
9007	0.3399E+00	-0.7262E+00	-0.8918E+00	-0.6080E-01	-0.1793E-01	0.2886E-01
9008	0.2961E+00	-0.6812E+00	-0.9219E+00	-0.3862E-01	-0.1820E-01	0.3409E-01
13	0.2779E+00	-0.6115E+00	-0.9068E+00	-0.3666E-01	-0.1847E-01	0.3775E-01
14	0.2780E+00	-0.5025E+00	-0.8560E+00	-0.3394E-01	-0.1872E-01	0.3878E-01
15	0.2780E+00	-0.2731E+00	-0.7410E+00	-0.2814E-01	-0.1989E-01	0.3373E-01
16	0.2781E+00	0.4485E-01	-0.4139E+00	-0.1457E-01	-0.2316E-01	0.1296E-01
17	0.2519E+00	0.8366E-01	-0.3770E+00	-0.1091E-01	-0.2426E-01	0.6151E-02
18	0.1297E+00	0.1351E+00	-0.2548E+00	-0.6946E-02	-0.2551E-01	-0.2361E-02
19	-0.5217E-01	0.1136E+00	-0.7276E-01	-0.3018E-02	-0.2678E-01	-0.1277E-01
20	-0.5504E+00	-0.2744E+00	0.4258E+00	-0.2880E-02	-0.2663E-01	-0.2999E-01
21	-0.5016E+00	-0.3469E+00	0.4791E+00	-0.5407E-02	-0.2542E-01	-0.3217E-01
9009	0.6573E+00	-0.3475E+00	0.8959E-01	-0.1216E-01	-0.2094E-01	-0.1655E-01
9010	0.7574E+00	-0.3476E+00	-0.3097E+00	-0.4767E-02	-0.1647E-01	0.1240E-01
22	0.1161E+00	-0.3471E+00	-0.2123E+00	0.8729E-02	-0.1199E-01	0.8927E-02
23	0.7422E-01	-0.3470E+00	-0.1289E+00	0.1071E-01	-0.1104E-01	0.9408E-04
24	0.2043E+00	-0.3465E+00	0.6322E-01	0.1205E-01	-0.9213E-02	-0.1430E-01
9011	0.7725E+00	-0.3453E+00	0.3764E+00	0.4411E-02	-0.5486E-02	-0.1266E-01
9012	0.8003E+00	-0.3437E+00	0.2998E+00	-0.8541E-02	-0.1756E-02	0.1216E-01
25	0.7017E-01	-0.3418E+00	-0.9616E-01	-0.1252E-01	0.1969E-02	0.2689E-01
26	-0.1843E+00	-0.3412E+00	-0.2090E+00	-0.1097E-01	0.3030E-02	0.2607E-01
9013	-0.8223E+00	-0.3387E+00	-0.4165E+00	0.5625E-03	0.6986E-02	0.5348E-02
9014	-0.4951E+00	-0.3358E+00	-0.2028E+00	0.9181E-02	0.1094E-01	-0.2125E-01
27	0.3659E+00	-0.3325E+00	0.1914E-01	-0.7434E-03	0.1490E-01	-0.2047E-01
28	0.5786E+00	-0.3312E+00	-0.5072E-01	-0.1049E-01	0.1636E-01	-0.1082E-01
29	0.6227E+00	-0.3290E+00	-0.3841E+00	-0.1994E-01	0.1861E-01	0.6289E-02
9015	-0.9953E-02	-0.3245E+00	-0.9741E+00	-0.5435E-02	0.2278E-01	0.2233E-01
9016	-0.6746E+00	-0.3197E+00	-0.7028E+00	0.1623E-01	0.2695E-01	0.8101E-02
30	-0.4921E+00	-0.3144E+00	-0.2812E+00	-0.4557E-02	0.3112E-01	-0.1616E-01
31	-0.4757E+00	-0.3143E+00	-0.2863E+00	-0.5987E-02	0.3123E-01	-0.1667E-01
32	-0.3933E+00	-0.3014E+00	-0.3122E+00	-0.1387E-01	0.3179E-01	-0.1913E-01
35	-0.2864E+00	-0.2533E+00	-0.3304E+00	-0.2034E-01	0.3220E-01	-0.2095E-01
37	-0.1572E-01	-0.5983E-01	-0.3300E+00	-0.2179E-01	0.3152E-01	-0.2563E-01
9017	0.7862E+00	0.3253E+00	-0.3260E+00	-0.2062E-02	0.1381E-01	-0.4362E-01
9018	0.7844E+00	0.1434E+00	-0.3258E+00	0.1105E-01	-0.1284E-01	-0.6160E-01
38	0.1794E+00	-0.2253E+00	-0.3232E+00	0.8512E-02	-0.1817E-01	-0.7958E-01
39	0.1769E-01	-0.2823E+00	-0.3223E+00	0.4096E-02	-0.1194E-01	-0.8534E-01
9019	-0.3029E-01	-0.1827E+00	-0.3189E+00	-0.9467E-02	0.5724E-02	-0.1043E+00
40	0.1839E+00	0.2388E+00	-0.3151E+00	-0.1279E-01	0.3234E-02	-0.1232E+00
41	0.6818E-01	0.5506E+00	-0.3116E+00	-0.7830E-02	-0.1282E-01	-0.1395E+00
43	0.9663E-02	0.4382E-01	-0.2457E+00	-0.5500E-02	-0.1847E-01	-0.1436E+00
44	0.9674E-02	-0.1634E+00	-0.2181E+00	-0.5133E-02	-0.1854E-01	-0.1441E+00
45	0.9703E-02	-0.7171E+00	-0.1466E+00	-0.4161E-02	-0.1712E-01	-0.1442E+00
9020	0.9915E-02	-0.4076E+01	0.6941E-01	0.3115E-02	0.1755E-02	-0.6768E-01
46	0.1012E-01	-0.3844E+01	-0.2276E+00	0.1039E-01	0.1853E-01	0.8852E-01
47	0.1014E-01	-0.3552E+01	-0.2856E+00	0.1116E-01	0.2014E-01	0.1061E+00
91	-0.3073E+00	-0.3553E+01	-0.2668E+00	0.17[illegible]0E-01	0.2232E-01	0.1049E+00
92	-0.1432E-01	-0.3559E+01	0.2064E+00	0.6164E-01	0.3801E-01	0.9495E-01
93	-0.1607E+01	-0.3879E+01	0.4912E+00	0.9061E-01	0.4878E-01	0.8533E-01
94	-0.1443E+01	-0.4184E+01	0.4913E+00	0.9088E-01	0.5214E-01	0.8145E-01
95	-0.1170E+01	-0.4626E+01	0.4915E+00	0.7864E-01	0.5699E-01	0.7546E-01
96	-0.8731E+00	-0.4970E+01	0.4915E+00	0.5536E-01	0.6031E-01	0.6947E-01
97	-0.8579E+00	-0.4984E+01	0.4915E+00	0.5401E-01	0.6041E-01	0.6917E-01
98	-0.3881E+00	-0.5105E+01	0.4389E+00	-0.1079E-01	0.6066E-01	0.5930E-01
100	-0.1343E+00	-0.5106E+01	0.5516E+00	-0.3934E-01	0.6054E-01	0.5223E-01
101	0.1512E-01	-0.5107E+01	0.6581E+00	-0.5843E-01	0.6046E-01	0.4628E-01
102	0.1727E+00	-0.5108E+01	0.9332E+00	-0.6980E-01	0.5245E-01	0.3737E-01
113	0.4520E+00	-0.4591E+01	0.7001E+00	-0.1217E+00	0.9046E-01	0.5086E-01
114	0.8861E+00	-0.3984E+01	0.7019E+00	-0.1542E+00	0.1118E+00	0.5512E-01
115	0.1399E+01	-0.3301E+01	0.7035E+00	-0.1532E+00	0.1283E+00	0.5918E-01
116	0.2265E+01	-0.2509E+01	0.7057E+00	-0.7693E-01	0.1475E+00	0.6565E-01
118	0.2457E+01	-0.2434E+01	0.7203E+00	0.5618E-01	0.1605E+00	0.6502E-01
9023	0.1995E+00	-0.2410E+01	0.7489E+01	0.2731E+00	0.2514E+00	0.8483E-01

120	-0.2087E+01	-0.2384E+01	0.1098E+02	-0.7842E-01	0.3422E+00	0.6853E-01
122	-0.1447E+01	-0.2061E+01	0.1071E+02	-0.1677E+00	0.3555E+00	0.6112E-01
124	0.7881E-01	-0.1272E+01	0.1071E+02	-0.1866E+00	0.3646E+00	0.5488E-01
125	0.3794E+01	0.6360E-01	0.1071E+02	-0.1483E-01	0.3586E+00	0.3958E-01
127	0.4662E+01	-0.6431E-01	0.1044E+02	0.1970E+00	0.3379E+00	0.3018E-01
129	0.4156E+01	-0.3795E-01	0.6383E+00	0.2877E+00	0.1992E+00	-0.9361E-01
9024	0.1674E+01	-0.1898E-01	-0.1028E+01	-0.4321E-01	0.9962E-01	-0.1437E+00
130	0.8415E-07	-0.4150E-06	-0.1531E-06	-0.1730E-07	0.5658E-08	-0.1840E-07
48	0.1019E-01	-0.3198E+01	-0.3440E+00	-0.4764E-02	0.1835E-01	0.1225E+00
49	0.1027E-01	-0.2532E+01	-0.4275E+00	-0.3130E-01	0.1460E-01	0.1344E+00
50	0.1036E-01	-0.1855E+01	-0.4899E+00	-0.5784E-01	0.1026E-01	0.1246E+00
51	0.1038E-01	-0.1667E+01	-0.5044E+00	-0.6580E-01	0.6925E-02	0.1170E+00
52	0.1047E-01	-0.1117E+01	-0.5399E+00	-0.9496E-01	0.3936E-02	0.7044E-01
53	0.1085E-01	-0.2045E+01	-0.4026E+00	-0.2237E+00	-0.1350E-01	-0.1173E+00
54	0.1140E-01	-0.7495E+01	0.1726E+00	-0.4134E+00	-0.1162E-01	-0.1423E+00
55	0.1142E-01	-0.7601E+01	0.1818E+00	-0.4173E+00	-0.1108E-01	-0.1401E+00
56	-0.4143E-03	-0.5427E+01	0.2103E+00	-0.4556E+00	0.2961E-02	-0.1126E+00
57	0.1033E-01	-0.5391E+01	0.2107E+00	-0.4632E+00	0.6424E-02	-0.1057E+00
58	0.2643E-01	-0.4457E+01	0.2111E+00	-0.4689E+00	0.9399E-02	-0.9960E-01
59	0.6142E-01	-0.3036E+01	0.2116E+00	-0.4753E+00	0.1363E-01	-0.9044E-01
103	0.6209E-01	-0.2864E+01	0.2807E+00	-0.4749E+00	0.2829E-01	0.4217E-01
104	0.6484E-01	-0.4340E+01	0.6458E+00	-0.4734E+00	0.3610E-01	0.1602E+00
105	0.6573E-01	-0.4696E+01	0.7356E+00	-0.4729E+00	0.2240E-01	0.6504E-01
106	0.6659E-01	-0.4718E+01	0.7800E+00	-0.4724E+00	0.8462E-02	-0.4556E-01
107	0.6984E-01	-0.3148E+01	0.8774E+00	-0.4705E+00	0.3084E-01	-0.1226E+00
109	0.1335E+00	-0.2185E+01	0.9335E+00	-0.4686E+00	0.4515E-01	-0.5448E-01
111	0.2703E+00	-0.7821E+00	0.9332E+00	-0.4092E+00	0.2379E-01	0.6858E-01
112	0.2889E+00	-0.2301E+00	0.9331E+00	-0.3653E+00	-0.1911E-02	0.1203E+00
60	0.1079E+00	-0.1599E+01	0.2121E+00	-0.4784E+00	0.1756E-01	-0.8419E-01
61	0.1665E+00	-0.1591E+00	0.2126E+00	-0.4779E+00	0.2165E-01	-0.7795E-01
62	0.1719E+00	-0.3940E-01	0.2126E+00	-0.4777E+00	0.2300E-01	-0.7743E-01
63	0.2749E+00	0.1965E+01	0.3307E+00	-0.4590E+00	0.3461E-01	-0.5513E-01
64	0.2747E+00	0.2333E+01	0.7188E+00	-0.4246E+00	0.3029E-01	0.2783E-02
65	0.2746E+00	0.2227E+01	0.8516E+00	-0.4089E+00	0.2037E-01	0.4442E-01
131	0.1268E+00	0.2227E+01	-0.4786E+00	-0.4108E+00	0.2037E-01	0.4468E-01
132	-0.1663E-01	0.2228E+01	-0.1823E+01	-0.4127E+00	0.2037E-01	0.4470E-01
66	0.2750E+00	0.1895E+01	0.9227E+00	-0.3893E+00	0.8856E-02	0.8364E-01
67	0.2751E+00	0.1475E+01	0.9407E+00	-0.3727E+00	0.4108E-03	0.1097E+00
68	0.2755E+00	0.1119E+01	0.9331E+00	-0.3609E+00	-0.4761E-02	0.1241E+00
69	0.2759E+00	0.7239E+00	0.9091E+00	-0.3471E+00	-0.1031E-01	0.1360E+00
70	0.2761E+00	0.4066E+00	0.8809E+00	-0.3368E+00	-0.1391E-01	0.1430E+00
71	0.2767E+00	-0.3432E+00	0.7927E+00	-0.3137E+00	-0.2013E-01	0.1525E+00
133	-0.2191E+00	-0.3433E+00	-0.2289E+00	-0.3152E+00	-0.2013E-01	0.1532E+00
134	-0.7209E+00	-0.3435E+00	-0.1260E+01	-0.3165E+00	-0.2013E-01	0.1540E+00
72	0.2767E+00	-0.1118E+01	0.6795E+00	-0.2855E+00	-0.2281E-01	0.1544E+00
73	0.2767E+00	-0.4153E+01	0.4940E+00	-0.1602E+00	0.2380E-01	0.9984E-01
74	0.2767E+00	-0.4388E+01	0.5695E+00	-0.1461E+00	0.3333E-01	0.8785E-01
75	0.2766E+00	-0.4766E+01	0.7783E+00	-0.1179E+00	0.4571E-01	0.6301E-01
76	0.2765E+00	-0.5019E+01	0.1027E+01	-0.8974E-01	0.4985E-01	0.4143E-01
77	0.2765E+00	-0.5108E+01	0.1154E+01	-0.7566E-01	0.4911E-01	0.3351E-01
78	0.2765E+00	-0.5200E+01	0.1332E+01	-0.7578E-01	0.3969E-01	0.1166E-01
9021	0.2764E+00	-0.1410E+01	0.1563E+01	-0.7666E-01	-0.2082E-01	-0.1305E+00
79	0.2761E+00	0.1520E+01	0.4753E+00	-0.7753E-01	-0.4512E-01	-0.1917E+00
80	0.2759E+00	0.3581E+01	0.7275E-02	-0.7727E-01	-0.3866E-01	-0.1841E+00
81	0.2758E+00	0.4072E+01	-0.9353E-01	-0.7795E-01	-0.3557E-01	-0.1802E+00
82	0.2755E+00	0.4428E+01	-0.2079E+00	-0.8085E-01	-0.2023E-01	-0.1642E+00
9022	0.4901E+00	0.2295E+01	-0.2095E+00	-0.8438E-01	0.7524E-02	-0.1036E+00
83	0.1917E+00	0.3436E+00	-0.2110E+00	-0.5873E-01	0.1049E-01	-0.4301E-01
84	0.1681E+00	0.2114E+00	-0.2111E+00	-0.5384E-01	0.9286E-02	-0.3749E-01
85	0.1531E+00	0.1242E+00	-0.2112E+00	-0.5007E-01	0.8266E-02	-0.3354E-01
86	0.3470E-01	-0.3384E-01	-0.5952E-01	-0.2124E-01	0.1558E-02	-0.1258E-01
87	0.3304E-07	0.5609E-07	0.4391E-07	-0.1455E-07	0.1945E-08	-0.9819E-08

COUPLED MODE SHAPES (FOR SECONDARY MODE) MODE 29
FREQUENCY (HZ.) = 24.18094

MODAL DISP AT PRIMARY SYSTEM CONNETING DOF

DOF #	DISPLACEMENT
3041	-0.6423E-04
3042	0.0000E+00
3043	0.2827E-05
3061	-0.1243E-03
3063	0.9501E-0[illegible]
3072	0.0000E+0[illegible]
3081	-0.1595E-0[illegible]
3103	0.3421E-0[illegible]
3121	-0.2000E-0[illegible]
3122	0.0000E+00
3123	0.446[illegible]E-04
3091	-0.16[illegible]6E-03
3092	0.0[illegible]30E+00
3093	0.[illegible]19E-04

MODAL DISPLACEMENTS AT SECONDARY SYSTEM DOF

NODE	DX	DY	DZ	ROT-X	ROT-Y	ROT-Z
1	0.1376E-08	0.[illegible]406E-08	-0.2617E-08	0.6286E-09	0.9071E-09	0.2878E-09
2	-0.2134E-02	0.2[illegible]16E-02	-0.2166E-02	0.6519E-03	0.8849E-03	0.2049E-03
3	-0.1109E-01	0.1384E-01	-0.2849E-01	0.2104E-02	0.2603E-02	0.4130E-03
4	-0.1104E-01	0.2086E-01	-0.1179E+00	0.4602E-02	0.3722E-02	-0.1017E-03
5	-0.1101E-01	0.1530E-01	-0.1675E+00	0.5857E-02	0.3684E-02	-0.7798E-03
9001	-0.1054E-01	0.1365E-01	-0.1714E+00	0.6048E-02	0.3651E-02	-0.9943E-03
9002	-0.9009E-02	0.1215E-01	-0.1679E+00	0.6266E-02	0.3610E-02	-0.1206E-02
6	-0.6536E-02	0.1150E-01	-0.1577E+00	0.6504E-02	0.3591E-02	-0.1404E-02
7	-0.3223E-02	0.1151E-01	-0.1429E+00	0.6646E-02	0.3591E-02	-0.1516E-02
9003	0.6047E-01	0.1153E-01	0.9648E-01	0.5044E-02	0.3587E-02	-0.1275E-02

9004	0.6525E-01	0.1153E-01	0.1704E+00	-0.1358E-02	0.3583E-02	0.1062E-02
9	0.1403E-02	0.1153E-01	0.3402E-01	-0.4647E-02	0.3579E-02	0.1789E-02
10	-0.9395E-02	0.1152E-01	0.4981E-02	-0.4353E-02	0.3578E-02	0.1584E-02
9005	-0.3832E-01	0.1149E-01	-0.8607E-01	-0.1109E-02	0.3575E-02	0.1560E-03
9006	-0.1976E-01	0.1144E-01	-0.5909E-01	0.2651E-02	0.3571E-02	-0.1211E-02
11	0.2606E-01	0.1139E-01	0.5825E-01	0.4298E-02	0.3568E-02	-0.1463E-02
12	0.4075E-01	0.1137E-01	0.1042E+00	0.4210E-02	0.3567E-02	-0.1247E-02
9007	0.4101E-01	0.1077E-01	0.1103E+00	0.4144E-02	0.3572E-02	-0.1154E-02
9008	0.3454E-01	0.9244E-02	0.1110E+00	0.4081E-02	0.3585E-02	-0.1050E-02
13	0.4506E-01	0.7370E-02	0.1063E+00	0.4025E-02	0.3597E-02	-0.9279E-03
14	0.4506E-01	0.4932E-02	0.9642E-01	0.3949E-02	0.3604E-02	-0.8178E-03
15	0.4505E-01	0.8404E-03	0.7475E-01	0.3784E-02	0.3611E-02	-0.5080E-03
16	0.4504E-01	0.2470E-03	0.2573E-01	0.3401E-02	0.3287E-02	0.4934E-03
17	0.4846E-01	-0.1541E-02	0.1731E-01	0.3268E-02	0.3019E-02	0.9455E-03
18	0.6233E-01	-0.1098E-01	0.3401E-02	0.3147E-02	0.2637E-02	0.1656E-02
19	0.7859E-01	-0.1677E-01	-0.1291E-01	0.2880E-02	0.2052E-02	0.2759E-02
20	0.1035E+00	0.2049E-01	-0.3803E-01	0.1725E-02	0.7983E-03	0.6121E-02
21	0.7905E-01	0.3420E-01	-0.3515E-01	0.9925E-03	0.4913E-03	0.7441E-02
9009	-0.2141E+00	0.3412E-01	-0.2656E-01	-0.1113E-03	-0.7744E-03	0.4738E-02
9010	-0.2210E+00	0.3398E-01	-0.2275E-01	0.4056E-03	-0.2040E-02	-0.4023E-02
22	-0.3142E-01	0.3380E-01	0.2355E-02	0.6504E-03	-0.3306E-02	-0.2157E-02
23	-0.2423E-01	0.3375E-01	0.7542E-02	0.5578E-03	-0.3574E-02	0.7245E-03
24	-0.7930E-01	0.3364E-01	0.1461E-01	0.2862E-03	-0.4081E-02	0.5247E-02
9011	-0.2705E+00	0.3340E-01	0.1370E-01	-0.3266E-03	-0.5145E-02	0.3886E-02
9012	-0.2587E+00	0.3313E-01	-0.3078E-02	-0.5566E-03	-0.6199E-02	-0.4851E-02
25	0.4588E-02	0.3281E-01	-0.1673E-01	-0.1689E-01	-0.7253E-02	-0.9190E-02
26	0.9004E-01	0.3272E-01	-0.1743E-01	0.2272E-04	-0.7553E-02	-0.8592E-02
9013	0.2809E+00	0.3234E-01	-0.6692E-02	0.4970E-03	-0.8671E-02	-0.7678E-03
9014	0.1356E+00	0.3192E-01	0.9919E-02	0.2932E-03	-0.9789E-02	0.7815E-02
27	-0.1539E+00	0.3146E-01	0.7243E-02	-0.5009E-03	-0.1091E-01	0.6140E-02
28	-0.2118E+00	0.3128E-01	-0.1782E-02	-0.8635E-03	-0.1133E-01	0.2347E-02
29	-0.1957E+00	0.3099E-01	-0.2217E-01	-0.1031E-02	-0.1196E-01	-0.1777E-02
9015	0.6512E-01	0.3041E-01	-0.4294E-01	0.2013E-03	-0.1314E-01	-0.8021E-02
9016	0.2737E+00	0.2979E-01	-0.3299E-02	0.1747E-02	-0.1432E-01	-0.1675E-02
30	0.1891E+00	0.2913E-01	0.7391E-01	0.2179E-02	-0.1549E-01	0.4764E-02
31	0.1842E+00	0.2911E-01	0.7609E-01	0.2175E-02	-0.1553E-01	0.4819E-02
32	0.1539E+00	0.2667E-01	0.8186E-01	0.2115E-02	-0.1562E-01	0.5008E-02
35	0.1068E+00	0.2116E-01	0.8417E-01	0.1823E-02	-0.1562E-01	0.5064E-02
37	-0.2356E-01	0.1034E-01	0.8416E-01	0.2789E-03	-0.1505E-01	0.5161E-02
9017	-0.3901E+00	0.9735E-01	0.8398E-01	-0.3569E-02	-0.5669E-02	0.5534E-02
9018	-0.3572E+00	0.1863E+00	0.8371E-01	-0.5262E-03	0.6877E-02	0.5908E-02
38	-0.7049E-01	0.1108E+00	0.8336E-01	0.4878E-02	0.7499E-02	0.6281E-02
39	-0.1045E-01	0.5330E-01	0.8323E-01	0.6078E-02	0.3552E-02	0.6401E-02
9019	-0.8956E-01	-0.1564E+00	0.8266E-01	0.4654E-02	-0.5667E-02	0.6794E-02
40	-0.2541E+00	-0.2033E+00	0.8200E-01	-0.2209E-02	-0.2429E-02	0.7186E-02
41	-0.2260E+00	-0.6524E-01	0.8135E-01	-0.6228E-02	0.4476E-02	0.7526E-02
43	-0.2060E+00	-0.1266E-01	0.5926E-01	-0.6493E-02	0.6303E-02	0.7530E-02
44	-0.2060E+00	-0.1999E-02	0.4993E-01	-0.6526E-02	0.6405E-02	0.7495E-02
45	-0.2060E+00	0.2639E-01	0.2495E-01	-0.6612E-02	0.6371E-02	0.7340E-02
9020	-0.2055E+00	0.1993E+00	-0.1191E+00	-0.7260E-02	0.3318E-02	0.4170E-02
46	-0.2049E+00	0.2579E+00	-0.1584E+00	-0.7908E-02	-0.3838E-03	0.3030E-03
47	-0.2048E+00	0.2583E+00	-0.1567E+00	-0.7976E-02	-0.7015E-03	0.3765E-04
91	-0.2067E+00	0.2585E+00	-0.1818E+00	-0.9529E-02	-0.6105E-01	0.1617E-02
52	-0.2723E+00	0.2595E+00	-0.3547E+00	-0.2160E-01	0.4499E-04	0.8077E-02
93	-0.3034E+00	0.3702E+00	-0.4528E+00	-0.3268E-01	0.1333E-02	0.8369E-02
94	-0.2980E+00	0.4811E+00	-0.4527E+00	-0.3459E-01	0.2607E-02	0.8148E-02
95	-0.2787E+00	0.6592E+00	-0.4526E+00	-0.3523E-01	0.5864E-02	0.7806E-02
96	-0.2393E+00	0.8336E+00	-0.4524E+00	-0.3370E-01	0.1042E-01	0.7465E-02
97	-0.2367E+00	0.8420E+00	-0.4524E+00	-0.3358E-01	0.1067E-01	0.7448E-02
98	-0.1524E+00	0.9605E+00	-0.3415E+00	-0.2614E-01	0.2094E-01	0.8637E-02
100	-0.1127E+00	0.9607E+00	-0.2328E+00	-0.2147E-01	0.2781E-01	0.9465E-02
101	-0.8339E-01	0.9608E+00	-0.1732E+00	-0.1768E-01	0.3238E-01	0.1045E-01
102	-0.5292E-01	0.9611E+00	-0.1097E+00	-0.1481E-01	0.2017E-01	0.6560E-02
113	0.2937E+00	0.1031E+01	-0.1737E+00	-0.3547E-02	0.1113E+00	0.5559E-01
114	0.9185E+00	0.1025E+01	-0.1742E+00	0.4269E-02	0.1818E+00	0.9762E-01
115	0.1838E+01	0.9986E+00	-0.1747E+00	0.4866E-02	0.2510E+00	0.1396E+00
116	0.3729E+01	0.1002E+01	-0.1753E+00	-0.1136E-01	0.3548E+00	0.2015E+00
118	0.4106E+01	0.1049E+01	-0.2420E+00	-0.4056E-01	0.4421E+00	0.2332E+00
9023	-0.4085E+01	0.1043E+01	-0.2321E+01	-0.6831E-01	0.1082E+01	0.2882E+00
120	-0.1099E+02	0.1036E+01	-0.2751E+01	0.4399E-01	0.1722E+01	0.1973E+00
122	-0.7420E+01	0.8987E+00	-0.2629E+01	0.6759E-01	0.1811E+01	0.1782E+00
124	0.3917E+00	0.5920E+00	-0.2629E+01	0.7220E-01	0.1872E+01	0.1694E+00
125	0.1957E+02	0.2284E-01	-0.2627E+01	0.2260E-01	0.1856E+01	0.1485E+00
127	0.2396E+02	0.1820E-01	-0.2591E+01	-0.3798E-01	0.1752E+01	0.1196E+00
129	0.2125E+02	0.1074E-01	-0.1716E+00	-0.7434E-01	0.1033E+01	-0.4715E+00
9024	0.8594E+01	0.5372E-02	0.2625E+00	0.1090E-01	0.5164E+00	-0.7362E+00
130	0.4356E-06	0.1175E-06	0.3907E-07	0.4456E-08	0.2933E-07	-0.9466E-07
48	-0.2046E+00	0.2518E+00	-0.1540E+00	-0.4262E-02	-0.1162E-02	-0.3112E-02
49	-0.2042E+00	0.2256E+00	-0.1462E+00	0.1928E-02	-0.2040E-02	-0.5768E-02
50	-0.2037E+00	0.1942E+00	-0.1336E+00	0.8114E-02	-0.2915E-02	-0.4963E-02
51	-0.2036E+00	0.1866E+00	-0.1290E+00	0.9974E-02	-0.3150E-02	-0.4003E-02
52	-0.2030E+00	0.1766E+00	-0.1094E+00	0.1678E-01	-0.3887E-02	0.2353E-02
53	-0.2006E+00	0.5824E+00	-0.6117E-02	0.4680E-01	-0.3468E-02	0.2592E-01
54	-0.1967E+00	0.1553E+01	-0.6207E-01	0.9105E-01	0.9060E-02	0.2250E-01
55	-0.1966E+00	0.1569E+01	-0.6921E-01	0.9198E-01	0.9478E-02	0.2208E-01
56	-0.1513E+00	0.1278E+01	-0.1118E+00	0.1005E+00	0.1134E-01	0.1722E-01
57	-0.1253E+00	0.1050E+01	-0.1119E+00	0.1021E+00	0.1040E-01	0.1617E-01
58	-0.1057E+00	0.8438E+00	-0.1120E+00	0.1033E+00	0.9232E-02	0.1524E-01
59	-0.8060E-01	0.5312E+00	-0.1121E+00	0.1043E+00	0.7440E-02	0.1364E-01
103	-0.8059E-01	0.5100E+00	-0.9586E-01	0.1034E+00	-0.1868E-02	-0.1042E-01
104	-0.8053E-01	0.7946E+00	-0.2012E+00	0.9934E-01	-0.1360E-01	-0.3004E-01
105	-0.8051E-01	0.8640E+00	-0.2362E+00	0.9805E-01	-0.8936E-02	-0.1140E-01
106	-0.8046E-01	0.8648E+00	-0.2535E+00	0.9675E-01	-0.2708E-02	0.9865E-02
107	-0.8024E-01	0.5642E+00	-0.1936E+00	0.9174E-01	0.9294E-02	0.2135E-01
109	-0.6658E-01	0.4011E+00	-0.1797E+00	0.9065E-01	0.8521E-02	0.6823E-02
111	-0.4421E-01	0.1125E+00	-0.1796E+00	0.7782E-01	0.3873E-02	-0.1935E-01
112	-0.4073E-01	0.8040E-02	-0.1796E+00	0.6866E-01	0.7131E-03	-0.3034E-01
60	-0.6074E-01	0.2164E+00	-0.1122E+00	0.1046E+00	0.5760E-02	0.1298E-01
61	-0.4597E-01	-0.9802E-01	-0.1123E+00	0.1040E+00	0.4042E-02	0.1212E-01
62	-0.4498E-01	-0.1241E+00	-0.1123E+00	0.1039E+00	0.3897E-02	0.1205E-01
63	-0.3891E-01	-0.5458E+00	-0.1126E+00	0.9791E-01	-0.1806E-02	0.8000E-02

64	-0.3886E-01	-0.5810E+00	-0.1499E+00	0.8702E-01	-0.3677E-02	-0.4263E-02
65	-0.3884E-01	-0.5792E+00	-0.1672E+00	0.8207E-01	-0.2709E-02	-0.1356E-01
131	0.5342E-02	-0.5394E+00	0.9971E-01	0.8247E-01	-0.2709E-02	-0.1362E-01
132	0.4990E-02	-0.5397E+00	0.3698E+00	0.8287E-01	-0.2709E-02	-0.1368E-01
66	-0.3882E-01	-0.4680E+00	-0.1770E+00	0.7623E-01	-0.1282E-02	-0.2252E-01
67	-0.3880E-01	-0.3358E+00	-0.1800E+00	0.7127E-01	-0.2528E-03	-0.2821E-01
68	-0.3878E-01	-0.2453E+00	-0.1796E+00	0.6777E-01	0.4087E-03	-0.3115E-01
69	-0.3876E-01	-0.1472E+00	-0.1775E+00	0.6385E-01	0.8395E-03	-0.3140E-01
70	-0.3874E-01	-0.6981E-01	-0.1752E+00	0.6091E-01	0.1084E-02	-0.3455E-01
71	-0.3671E-01	0.1082E+00	-0.1686E+00	0.5437E-01	0.1371E-02	-0.3544E-01
133	0.7635E-01	0.1082E+00	0.8637E-02	0.5464E-01	0.1371E-02	-0.3561E-01
134	0.1931E+00	0.1082E+00	0.1873E+00	0.5485E-01	0.1371E-02	-0.3582E-01
72	-0.3847E-01	0.2851E+00	-0.1615E+00	0.4634E-01	0.1447E-02	-0.3460E-01
73	-0.3741E-01	0.8924E+00	-0.1359E+00	0.1088E-01	0.4008E-03	-0.1548E-01
74	-0.3728E-01	0.9268E+00	-0.1363E+00	0.6887E-02	0.6022E-03	-0.1190E-01
75	-0.3704E-01	0.9861E+00	-0.1299E+00	-0.1098E-02	0.3755E-02	-0.4464E-02
76	-0.3678E-01	0.9715E+00	-0.9860E-01	-0.9064E-02	0.1046E-01	0.2384E-02
77	-0.3665E-01	0.9612E+00	-0.6824E-01	-0.1307E-01	0.1509E-01	0.5237E-02
78	-0.3668E-01	0.9373E+00	-0.1165E-01	-0.1214E-01	0.1319E-01	0.6915E-02
9021	-0.3683E-01	0.5485E+00	0.1895E+00	-0.5470E-02	0.1396E-02	0.2032E-01
79	-0.3695E-01	-0.1588E+00	0.1208E+00	0.1199E-02	-0.4719E-02	0.2646E-01
80	-0.3699E-01	-0.4415E+00	0.6778E-01	0.3733E-02	-0.4665E-02	0.2513E-01
81	-0.3700E-01	-0.5084E+00	0.5541E-01	0.4358E-02	-0.4405E-02	0.2456E-01
82	-0.2403E-01	-0.5764E+00	0.4068E-01	0.6367E-02	-0.2845E-02	0.2212E-01
9022	0.7159E-02	-0.3528E+00	0.4034E-01	0.1074E-01	0.1501E-04	0.1360E-01
83	-0.6049E-02	-0.7128E-01	0.4004E-01	0.9620E-02	0.5944E-03	0.5078E-02
84	-0.7398E-03	-0.4932E-01	0.4001E-01	0.9067E-02	0.5306E-03	0.4302E-02
85	-0.8260E-02	-0.3446E-01	0.3999E-01	0.8622E-02	0.4734E-03	0.3747E-02
86	-0.2139E-02	0.2063E-02	0.1396E-01	0.4463E-02	-0.5651E-05	0.9910E-03
87	0.2255E-08	-0.1015E-07	0.1161E-07	0.3616E-08	-0.7613E-09	0.4742E-09

COUPLED MODE SHAPES (FOR SECONDARY MODE) MODE 30
FREQUENCY (HZ.) = 25.31967

MODAL DISP AT PRIMARY SYSTEM CONNECTING DOF

DOF #	DISPLACEMENT
3041	-0.3935E-04
3042	0.0000E+00
3043	0.2234E-04
3061	-0.9081E-04
3062	0.7506E-04
3072	0.0000E+00
3081	-0.1392E-03
3103	0.2702E-03
3121	-0.2541E-03
3122	0.0000E+00
3123	0.3526E-03
3091	-0.1581E-03
3092	0.0000E+00
3093	0.1674E-03

MODAL DISPLACEMENTS AT SECONDARY SYSTEM DOF

NODE	DX	DY	DZ	ROT-X	ROT-Y	ROT-Z
1	-0.5340E-07	-0.2629E-07	0.3132E-07	-0.8392E-08	-0.7349E-08	-0.4598E-08
2	0.1763E-01	-0.3012E-01	0.1832E-01	-0.8357E-02	-0.7939E-02	-0.3384E-02
3	0.1038E+00	-0.1899E+00	0.2831E+00	-0.2539E-01	-0.2772E-01	-0.5551E-02
4	0.1020E+00	-0.1887E+00	0.1281E+01	-0.5345E-01	-0.4241E-01	0.1028E-01
5	0.1011E+00	-0.5578E-01	0.1829E+01	-0.6757E-01	-0.4238E-01	0.2764E-01
9001	0.8527E-01	0.1135E+00	0.1894E+01	-0.6971E-01	-0.4208E-01	0.3314E-01
9002	0.3541E-01	0.1625E+00	0.1853E+01	-0.7215E-01	-0.4167E-01	0.3853E-01
6	-0.4230E-01	0.1828E+00	0.1736E+01	-0.7482E-01	-0.4152E-01	0.4351E-01
7	-0.1441E+00	0.1827E+00	0.1566E+01	-0.7641E-01	-0.4158E-01	0.4623E-01
9003	-0.1916E+01	0.1816E+00	-0.1156E+01	-0.5583E-01	-0.4255E-01	0.3055E-01
9004	-0.1781E+01	0.1802E+00	-0.1899E+01	0.1817E-01	-0.4352E-01	-0.3591E-01
9	-0.1087E+01	0.1786E+00	-0.3705E+00	0.4633E-01	-0.4449E-01	-0.3302E-01
10	0.6544E-01	0.1783E+00	-0.9114E-01	0.3988E-01	-0.4466E-01	-0.2202E-01
9005	0.9540E+01	0.1764E+00	0.5166E+00	-0.6640E-03	-0.4548E-01	0.1506E-01
9006	-0.5668E+01	0.1744E+00	-0.9173E-02	-0.2905E-01	-0.4630E-01	0.2172E-01
11	-0.1048E+01	0.1722E+00	-0.1073E+01	-0.3518E-01	-0.4713E-01	0.7347E-02
12	-0.1094E+01	0.1714E+00	-0.1443E+01	-0.3588E-01	-0.4741E-01	0.1807E-02
9007	-0.1096E+01	0.1716E+00	-0.1483E+01	-0.3364E-01	-0.4747E-01	0.4672E-03
9008	-0.1095E+01	0.1710E+00	-0.1463E+01	-0.3354E-01	-0.4747E-01	-0.3724E-03
13	-0.1095E+01	0.1693E+00	-0.1391E+01	-0.3353E-01	-0.4732E-01	-0.5344E-03
14	-0.1095E+01	0.1672E+00	-0.1261E+01	-0.3351E-01	-0.4701E-01	-0.2830E-04
15	-0.1095E+01	0.1739E+00	-0.9820E+00	-0.3347E-01	-0.4532E-01	0.3615E-02
16	-0.1094E+01	0.2733E+00	-0.4213E+00	-0.3339E-01	-0.3184E-01	0.6682E-02
17	-0.1122E+01	0.3249E+00	-0.3469E+00	-0.3290E-01	-0.2319E-01	0.3649E-02
18	-0.1208E+01	0.4877E+00	-0.2602E+00	-0.3121E-01	-0.1221E-01	-0.1458E-02
19	-0.1242E+01	0.6114E+00	-0.2249E+00	-0.2364E-01	0.1736E-02	-0.1869E-01
20	-0.9724E+00	-0.1985E+00	-0.4890E+00	-0.2150E-01	0.2262E-01	-0.8409E-01
21	-0.5141E+00	-0.5370E+00	-0.4043E+00	0.4863E-01	0.2477E-01	-0.1161E+00
9009	0.4317E+01	-0.5341E+00	0.2161E+01	0.4713E-01	0.3126E-01	-0.7373E-01
9010	0.3460E+01	-0.5302E+00	0.2096E+01	-0.5145E-01	0.3770E-01	0.8545E-01
22	0.4510E+00	-0.5254E+00	-0.8865E+00	-0.6820E-01	0.4417E-01	0.1783E-01
23	0.5527E+00	-0.5243E+00	-0.1399E+01	-0.5094E-01	0.4554E-01	-0.4698E-01
24	0.2250E+01	-0.5219E+00	-0.1903E+01	-0.9540E-02	0.4818E-01	-0.1414E+00
9011	0.6801E+01	-0.5165E+00	-0.9689E+00	0.5758E-01	0.5356E-01	-0.7559E-01
9012	0.5610E+01	-0.5104E+00	0.1182E+01	0.5518E-01	0.5895E-01	0.1452E+00
25	-0.1300E+01	-0.5038E+00	0.2016E+01	-0.1143E-01	0.6433E-01	0.2198E+00
26	-0.3275E+01	-0.5018E+00	0.1795E+01	-0.3436E-01	0.6586E-01	0.1911E+00
9013	-0.6620E+01	-0.4940E+00	-0.3023E+00	-0.6737E-01	0.7158E-01	-0.2847E-01
9014	-0.1722E+01	-0.4855E+00	-0.1959E+01	-0.1247E-01	0.7729E-01	-0.2079E+00
27	0.4847E+01	-0.4764E+00	-0.9268E+00	0.6480E-01	0.8300E-01	-0.1055E+00
28	0.5742E+01	-0.4728E+00	0.6155E-01	0.4228E-01	0.8514E-01	0.4559E-02
29	0.3825E+01	-0.4671E+00	0.1739E+01	0.7610E-01	0.8837E-01	0.1562E+00

9015	-0.3813E+01	-0.4558E+00	0.2980E+01	-0.2406E-01	0.9439E-01	0.1835E+00
9016	-0.6534E+01	-0.4439E+00	0.1552E+00	-0.1068E+00	0.1004E+00	-0.6256E-01
30	-0.9609E-01	-0.4314E+00	-0.3481E+01	-0.6567E-01	0.1064E+00	-0.2306E+00
31	0.1356E+00	-0.4310E+00	-0.3545E+01	-0.6284E-01	0.1066E+00	-0.2309E+00
32	0.8683E+00	-0.3717E+00	-0.3603E+01	-0.4667E-01	0.1067E+00	-0.2308E+00
35	0.1404E+01	-0.2712E+00	-0.3736E+01	-0.2596E-01	0.1045E+00	-0.2288E+00
37	0.2248E+01	-0.2385E+00	-0.3738E+01	0.2696E-01	0.9150E-01	-0.2228E+00
9017	0.3685E+01	-0.3667E+01	-0.3730E+01	0.1287E+00	-0.1153E-01	-0.1999E+00
9018	0.1626E+01	-0.6039E+01	-0.3718E+01	-0.1002E-01	-0.8376E-01	-0.1770E+00
38	-0.1272E+00	-0.2749E+01	-0.3702E+01	-0.1744E+00	-0.3165E-02	-0.1541E+00
39	0.1606E+00	-0.7824E+00	-0.3696E+01	-0.2000E+00	0.6336E-01	-0.1468E+00
9019	0.4523E+01	0.5420E+01	-0.3670E+01	-0.1171E+00	0.1284E+00	-0.1227E+00
40	0.6043E+01	0.5743E+01	-0.3639E+01	0.9664E-01	-0.6069E-01	-0.9859E-01
41	0.1569E+01	0.1250E+01	-0.3609E+01	0.1711E+00	-0.2256E+00	-0.7777E-01
43	0.6712E+00	0.3516E+00	-0.2685E+01	0.1546E+00	-0.2403E+00	-0.6718E-01
44	0.6710E+00	0.2550E+00	-0.2333E+01	0.1506E+00	-0.2358E+00	-0.6463E-01
45	0.6704E+00	0.2291E-01	-0.1455E+01	0.1401E+00	-0.2095E+00	-0.5720E-01
9020	0.6654E+00	-0.8646E+00	0.1220E+01	0.6174E-01	-0.2047E-02	-0.6527E-02
46	0.6597E+00	-0.5496E+00	0.8819E-01	-0.1664E-01	0.5076E-01	0.2246E-01
47	0.6591E+00	-0.4799E+00	-0.6043E-01	-0.2488E-01	0.4624E-01	0.2344E-01
91	0.5842E+00	-0.4799E+00	-0.1386E+00	-0.2831E-01	0.4282E-01	0.2365E-01
92	0.3301E+00	-0.4794E+00	-0.5655E+00	-0.4397E-01	0.1818E-01	0.2025E-01
93	0.2978E+00	-0.3018E+00	-0.7401E+00	-0.4754E-01	0.4487E-02	0.1395E-01
94	0.3044E+00	-0.1470E+00	-0.7404E+00	-0.4735E-01	0.2954E-03	0.9895E-02
95	0.2912E+00	0.8600E-01	-0.7408E+00	-0.4583E-01	-0.4635E-02	0.3633E-02
96	0.2582E+00	0.3117E+00	-0.7410E+00	-0.4292E-01	-0.7326E-02	-0.2628E-02
97	0.2563E+00	0.3224E+00	-0.7410E+00	-0.4274E-01	-0.7396E-02	-0.2941E-02
98	0.1939E+00	0.4718E+00	-0.6012E+00	-0.3431E-01	-0.8590E-02	-0.1043E-01
100	0.1406E+00	0.4719E+00	-0.4545E+00	-0.3138E-01	-0.7928E-02	-0.1201E-01
101	0.1034E+00	0.4720E+00	-0.3631E+00	-0.2967E-01	-0.7486E-02	-0.1190E-01
102	0.5896E-01	0.4721E+00	-0.2542E+00	-0.2790E-01	-0.7217E-02	-0.1070E-01
113	0.6136E-01	0.6516E+00	-0.3637E+00	-0.2989E-01	-0.6248E-02	-0.9939E-02
114	0.3720E-01	0.7782E+00	-0.3641E+00	-0.2980E-01	-0.5131E-02	-0.8114E-02
115	0.1780E-01	0.9058E+00	-0.3645E+00	-0.3129E-01	-0.3956E-02	-0.6289E-02
116	-0.1008E-02	0.1121E+01	-0.3650E+00	-0.3974E-01	-0.1984E-02	-0.3603E-02
118	-0.1964E-02	0.1220E+01	-0.4732E+00	-0.5272E-01	-0.2741E-03	-0.2047E-02
9023	-0.3928E-01	0.1218E+01	-0.2057E+01	-0.3109E-01	0.1298E-01	0.3704E-02
120	-0.1647E+00	0.1213E+01	-0.1585E+01	0.6116E-01	0.2624E-01	0.4680E-02
122	-0.1135E+00	0.1052E+01	-0.1434E+01	0.7541E-01	0.2812E-01	0.4444E-02
124	0.8599E-02	0.7215E+00	-0.1431E+01	0.7737E-01	0.2951E-01	0.4399E-02
125	0.3150E+00	0.6673E-01	-0.1432E+01	0.3920E-01	0.2987E-01	0.4289E-02
127	0.3901E+00	0.1320E-01	-0.1456E+01	-0.6041E-02	0.2823E-01	0.3862E-02
129	0.3801E+00	0.7793E-02	-0.1148E+00	-0.4585E-01	0.1664E-01	-0.7605E-02
9024	0.1579E+00	0.3897E-02	0.1577E+00	0.6368E-02	0.8222E-02	-0.1337E-01
130	0.8361E-08	0.8522E-07	0.2411E-07	0.2701E-08	0.4726E-09	-0.1760E-08
48	0.6586E+00	-0.4097E+00	-0.1952E+00	-0.2347E-01	0.4542E-01	0.2330E-01
49	0.6578E+00	-0.2940E+00	-0.4212E+00	-0.2112E-01	0.4231E-01	0.2283E-01
50	0.6568E+00	-0.1814E+00	-0.6223E+00	-0.1878E-01	0.3745E-01	0.2176E-01
51	0.6565E+00	-0.1489E+00	-0.6775E+00	-0.1807E-01	0.3574E-01	0.2126E-01
52	0.6553E+00	-0.3768E-01	-0.6558E+00	-0.1549E-01	0.2854E-01	0.1870E-01
53	0.6497E+00	0.2583E+00	-0.1104E+01	-0.4107E-02	-0.9071E-02	0.6148E-02
54	0.6405E+00	0.2923E+00	-0.9638E-02	0.1267E-01	-0.4346E-01	-0.9046E-03
55	0.6403E+00	0.2916E+00	0.2312E-01	0.1303E-01	-0.4365E-01	-0.8420E-03
56	0.4739E+00	0.2338E+00	0.1899E+00	0.1577E-01	-0.4026E-01	0.3394E-03
57	0.3837E+00	0.1974E+00	0.1899E+00	0.1624E-01	-0.3666E-01	0.9499E-03
58	0.3149E+00	0.1643E+00	0.1900E+00	0.1652E-01	-0.3280E-01	0.1493E-02
59	0.2254E+00	0.1140E+00	0.1900E+00	0.1665E-01	-0.2758E-01	0.2307E-02
60	0.2252E+00	0.1042E+00	0.1063E+00	0.1557E-01	-0.1910E-01	0.3416E-02
104	0.2240E+00	0.5180E-01	0.1622E+00	0.1115E-01	0.1393E-01	0.7743E-02
105	[illegible]	0.2678E-01	0.2002E+00	0.9721E-02	0.1013E-01	0.8860E-02
106	0.2231E+00	-0.9030E-03	0.2201E+00	0.8294E-02	0.2729E-02	0.9413E-02
107	0.2212E+00	-0.9040E-01	0.4836E-01	0.2826E-02	-0.3439E-01	0.4158E-02
109	0.1622E+00	-0.9878E-01	-0.7770E-02	0.1978E-02	-0.3945E-01	0.1456E-02
111	0.4858E-01	-0.1025E+00	-0.7757E-02	0.1099E-03	-0.2069E-01	-0.3203E-02
112	0.3004E-01	-0.10[illegible]+00	-0.7751E-02	-0.8484E-03	-0.2840E-02	-0.5159E-02
60	0.1504E+00	0.63[illegible]01	0.1901E+00	0.1645E-01	-0.2336E-01	0.3105E-02
61	0.8674E-01	0.147[illegible]01	0.1901E+00	0.1591E-01	-0.1998E-01	0.3902E-02
62	0.8187E-01	0.1072E-01	0.1901E+00	0.1585E-01	-0.1973E-01	0.3969E-02
63	0.2147E-01	-0.6327E-01	0.1370E+00	0.1290E-01	-0.1186E-01	0.4975E-02
64	0.2228E-01	-0.1148E+00	0.3983E-01	0.7254E-02	-0.6087E-02	0.5329E-02
65	0.2264E-01	-0.1270E+00	0.1528E-01	0.4687E-02	-0.3840E-02	0.1069E-02
131	0.1902E-01	-0.1270E+00	0.3035E-01	0.4710E-02	-0.3840E-02	0.1077E-02
132	0.1560E-01	-0.1271E+00	0.4593E-01	0.4765E-02	-0.3840E-02	0.1059E-02
66	0.2307E-01	-0.1250E+00	0.1378E-02	0.2395E-02	-0.2097E-02	-0.1742E-02
67	0.2343E-01	-0.1127E+00	-0.4943E-02	0.4481E-03	-0.1225E-02	-0.3907E-02
68	0.2369E-01	-0.9868E-01	-0.7749E-02	-0.9259E-03	-0.9461E-03	-0.5304E-02
69	0.2388E-01	-0.8052E-01	-0.9044E-02	-0.2330E-02	-0.2242E-03	-0.6619E-02
70	0.2402E-01	-0.6457E-01	-0.8828E-02	-0.3382E-02	0.1300E-03	-0.7530E-02
71	0.2433E-01	-0.2200E-01	-0.6666E-02	-0.5724E-02	0.3415E-03	-0.9319E-02
133	0.5435E-01	-0.2201E-01	-0.2516E-01	-0.5753E-02	0.3415E-03	-0.9366E-02
134	0.8529E-01	-0.2202E-01	-0.4412E-01	-0.5806E-02	0.3415E-03	-0.9469E-02
72	0.2460E-01	0.2958E-01	-0.5428E-02	-0.8236E-02	-0.2451E-04	-0.1101E-01
73	0.2688E-01	0.3101E+00	-0.5821E-01	-0.1941E-01	-0.6032E-02	-0.1229E-01
74	0.2711E-01	0.3403E+00	-0.7501E-01	-0.2066E-01	-0.6951E-02	-0.1182E-01
75	0.2757E-01	0.3970E+00	-0.1136E+00	-0.2317E-01	-0.7849E-02	-0.1075E-01
76	0.2802E-01	0.4479E+00	-0.1535E+00	-0.2569E-01	-0.7607E-02	-0.9916E-02
77	0.2825E-01	0.4722E+00	-0.1724E+00	-0.2694E-01	-0.7105E-02	-0.9759E-02
78	0.2827E-01	0.5044E+00	-0.1984E+00	-0.2536E-01	-0.5840E-02	-0.6261E-02
9021	0.2843E-01	0.3569E+00	-0.2373E+00	-0.1408E-01	0.2936E-02	0.1527E-01
79	0.2856E-01	-0.2514E+00	-0.7398E-01	-0.2798E-02	0.6997E-02	0.2401E-01
80	0.2861E-01	-0.5092E+00	-0.2146E-03	0.1488E-02	0.6222E-02	0.2296E-01
81	0.2862E-01	-0.5704E+00	0.1611E-01	0.2547E-02	0.5805E-02	0.2247E-01
82	0.1177E-01	-0.6349E+00	0.3527E-01	0.5667E-02	0.3700E-02	0.2012E-01
9022	-0.2877E-01	-0.3969E+00	0.3551E-01	0.1222E-01	-0.2784E-04	0.1242E-01
83	-0.1274E-01	-0.7567E-01	0.3572E-01	0.1061E-01	-0.6014E-03	0.4720E-02
84	-0.1142E-01	-0.5161E-01	0.3574E-01	0.9834E-02	-0.4806E-03	0.4019E-02
85	-0.1066E-01	-0.3558E-01	0.3575E-01	0.9213E-02	-0.3759E-03	0.3518E-02
86	-0.2310E-02	0.2141E-02	0.1025E-01	0.4087E-02	0.2146E-03	0.9890E-03
87	-0.3762E-08	-0.1387E-07	-0.6166E-08	0.2815E-08	-0.6004E-10	0.5374E-09

COUPLED MODE SHAPES (FOR SECONDARY MODE) MODE 31
FREQUENCY (HZ.) = 26.2363

MODAL DISP AT PRIMARY SYSTEM CONNETING DOF

DOF #	DISPLACEMENT
3041	0.1046E-03
3042	0.0000E+00
3043	-0.3856E-05
3061	0.1879E-03
3063	-0.1296E-04
3072	0.0000E+00
3081	0.2185E-03
3103	-0.4665E-04
3121	0.1947E-03
3122	0.0000E+00
3123	-0.6087E-04
3091	0.2178E-03
3092	0.0000E+00
3093	-0.2890E-04

MODAL DISPLACEMENTS AT SECONDARY SYSTEM DOF

NODE	DX	DY	DZ	ROT-X	ROT-Y	ROT-Z
1	0.6788E-07	0.1382E-07	-0.3260E-08	0.8070E-09	-0.4854E-08	-0.2511E-09
2	0.1079E-01	0.8881E-03	0.1022E-01	0.6667E-03	-0.3146E-02	-0.7202E-03
3	0.3407E-01	-0.3045E-01	0.5801E-01	0.9896E-04	-0.1505E-02	-0.4889E-02
4	0.3622E-01	-0.3632E+00	0.3833E-01	-0.2769E-02	0.2532E-02	-0.2268E-01
5	0.3728E-01	-0.7606E+00	0.3017E-01	-0.[illegible]E-02	0.2857E-02	-0.3791E-01
9001	0.5811E-01	-0.8361E+00	-0.7207E-[illegible]	-0.4418E-[illegible]	0.2752E-02	-0.4282E-01
9002	0.1208E+00	-0.8980E+00	-0.1[illegible]E-01	-0.4621E-02	0.2639E-02	-0.4761E-01
6	0.2151E+00	-0.9227E+00	-0.[illegible]742E-01	-0.4621E-02	0.2506E-02	-0.5196E-01
7	0.3155E+00	-0.9227E+00	-0.3846E-01	-0.4923E-02	0.2334E-02	-0.5423E-01
9003	0.2214E+01	-0.5[illegible]06E+00	-0.1899E+00	-0.1756E-02	-0.4163E-03	-0.2706E-01
9004	0.1805E+01	-0.9[illegible]71E+00	0.1390E+00	0.3790E-02	-0.3171E-02	0.4340E-01
9	0.1882E+00	-0.9[illegible]12E+00	-0.2064E-01	0.2345E-03	-0.5925E-02	0.1688E-01
10	0.1379E+00	-0.5[illegible]7E+00	-0.2515E-01	-0.1823E-02	-0.6402E-02	0.2353E-03
9005	0.8635E+00	-0.9044E+00	-0.1769E+00	-0.5105E-02	-0.8742E-02	-0.3273E-01
9006	0.1562E+01	-0.8968E+00	-0.2212E+00	0.3730E-02	-0.1108E-01	-0.4506E-02
11	0.1051E+01	-0.8887E+00	0.9284E-01	0.1617E-01	-0.1342E-01	0.3302E-01
12	0.6580E+00	-0.8[illegible]0E+00	0.2888E+00	0.2034E-01	-0.1423E-01	0.3856E-01
9007	0.5841E+00	-0.8646E+00	0.3354E+00	0.2176E-01	-0.1448E-01	0.3891E-01
9008	0.5298E+00	-0.8099E+00	0.3862E+00	0.2305E-01	-0.1448E-01	0.3756E-01
13	0.5104E+00	-0.7398E+00	0.4262E+00	0.2416E-01	-0.1524E-01	0.3371E-01
14	0.5106E+00	-0.6494E+00	0.4684E+00	0.2565E-01	-0.1548E-01	0.2826E-01
15	0.5103E+00	-0.5296E+00	0.5632E+00	0.2888E-01	-0.1630E-01	0.6143E-02
16	0.5093E+00	-0.8382E+00	0.8213E+00	0.3640E-01	-0.2213E-01	-0.4230E-02
17	0.4820E+00	-0.1007E+01	0.8845E+00	0.3868E-01	-0.2586E-01	-0.5179E-01
18	0.3441E+00	-0.1476E+01	0.1022E+01	0.3559E-01	-0.2967E-01	-0.6108E-01
19	0.1255E+00	-0.2127E+01	0.1239E+01	0.2122E-01	-0.3242E-01	-0.6423E-01
20	-0.4823E+00	-0.2837E+01	0.1842E+01	-0.5825E-01	-0.3236E-01	-0.3114E-01
21	-0.5180E+00	-0.2698E+01	0.1610E+01	-0.9802E-01	-0.3071E-01	-0.3617E-02
9009	-0.1336E+01	-0.2697E+01	-0.3155E+01	-0.8819E-01	-0.2873E-01	0.2204E-01
9010	-0.1361E+01	-0.2691E+01	-0.3380E+01	0.7966E-01	-0.2675E-01	-0.2248E-01
22	-0.2122E+00	-0.2680E+01	0.1430E+01	0.1107E+00	-0.2478E-01	-0.1546E-01
23	-0.1432E+00	-0.2677E+01	0.2259E+01	0.8182E-01	-0.2436E-01	0.7935E-03
24	-0.4023E+00	-0.2670E+01	0.3047E+01	0.1276E-01	-0.2355E-01	0.2654E-01
9011	-0.1380E+01	-0.2653E+01	0.1422E+01	-0.9585E-01	-0.2190E-01	0.1891E-01
9012	-0.1234E+01	-0.2632E+01	-0.2055E+01	-0.8530E-01	-0.2026E-01	-0.2833E-01
25	0.2007E+00	-0.2609E+01	-0.3155E+01	0.2791E-01	-0.1861E-01	-0.4708E-01
26	0.6273E+00	-0.2601E+01	-0.2709E+01	0.6404E-01	-0.1814E-01	-0.4160E-01
9013	0.1387E+01	-0.2572E+01	0.6873E+00	0.1087E+00	-0.1640E-01	0.4907E-02
9014	0.3635E+00	-0.2538E+01	0.3338E+01	0.9722E-02	-0.1465E-01	0.4418E-01
27	-0.1027E+01	-0.2501E+01	0.1444E+01	-0.1007E+00	-0.1290E-01	0.2172E-01
28	-0.1161E+01	-0.2487E+01	-0.7351E-02	-0.1139E+00	-0.1225E-01	-0.2382E-02
29	-0.7622E+00	-0.2463E+01	-0.2157E+01	-0.9125E-01	-0.1126E-01	-0.3494E-01
9015	0.8812E+00	-0.2414E+01	-0.3483E+01	0.3092E-01	-0.9421E-02	-0.3744E-01
9016	0.1317E+01	-0.2363E+01	-0.6423E+00	0.8814E-01	-0.7580E-02	0.1869E-01
30	-0.2519E+00	-0.2307E+01	0.4659E+00	-0.6997E-01	-0.5739E-02	0.5334E-01
31	-0.3054E+00	-0.2306E+01	0.3928E+00	-0.7749E-01	-0.5689E-02	0.5332E-01
32	-0.4528E+00	-0.2184E+01	0.1330E+00	-0.1158E+00	-0.5405E-02	0.5276E-01
35	-0.5243E+00	-0.1825E+01	-0.9137E-02	-0.1351E+00	-0.4617E-02	0.5194E-01
37	-0.5540E+00	-0.7805E+00	-0.8078E-02	-0.7336E-01	-0.1715E-02	0.4973E-01
9017	-0.3759E+00	-0.3939E+01	-0.3996E-02	0.1818E+00	0.1184E-01	0.4124E-01
9018	0.6542E-01	-0.8303E+01	0.9050E-04	0.3375E-01	0.1142E-01	0.3275E-01
38	0.1383E+00	-0.4942E+01	0.4177E-02	-0.2265E+00	-0.1036E-01	0.2426E-01
39	-0.2372E-01	-0.2264E+01	0.5486E-02	-0.2839E+00	-0.2130E-01	0.2154E-01
9019	-0.1025E+01	0.7373E+01	0.9771E-02	-0.2023E+00	-0.2559E-01	0.1260E-01
40	-0.1321E+01	0.8686E+02	0.1404E-01	0.1340E+00	0.1026E-01	0.3669E-02
41	-0.6891E+00	0.1558E+01	0.1772E-01	0.2979E+00	0.2525E-01	-0.4051E-02
43	-0.5978E+00	0.4197E+00	-0.6984E-01	0.2946E+00	0.2361E-01	-0.2076E-03
44	-0.5977E+00	0.4186E+00	-0.1031E+00	0.2929E+00	0.2397E-01	0.1959E-02
45	-0.5974E+00	0.4396E+00	-0.1[illegible]E+00	0.2884E+00	0.2649E-01	0.8111E-02
9020	-0.5948E+00	0.1010E+01	-0.1128E+01	0.2547E+00	0.3052E-01	0.2233E-01
46	-0.5916E+00	0.1367E+01	-0.1673E+01	0.2210E+00	0.5910E-02	-0.1051E-02
47	-0.5912E+00	0.1359E+01	-0.1686E+01	0.2174E+00	0.2891E-02	-0.4603E-02
91	-0.5841E+00	0.1359E+01	-0.1035E+01	0.2136E+00	-0.1754E-02	0.2145E-02
92	-0.8305E+00	0.1365E+01	0.1141E+01	0.1653E+00	-0.3518E-01	0.3551E-01
93	-0.1172E+01	0.9030E+00	0.1674E+01	0.1013E+00	-0.5401E-01	0.4986E-01
94	-0.1359E+01	0.6053E+00	0.1675E+01	0.4661E-01	-0.5877E-01	0.5421E-01
95	-0.1664E+01	0.2195E+00	0.1676E+01	0.7295E-01	-0.6101E-01	0.6093E-01
96	-0.1970E+01	-0.1251E+00	0.1676E+01	0.6890E-01	-0.6043E-01	0.6765E-01
97	-0.1985E+01	-0.1421E+00	0.1676E+01	0.7002E-01	-0.6037E-01	0.6799E-01
98	-0.1929E+01	-0.4152E+00	0.1382E+01	0.6781E-01	-0.5674E-01	0.7814E-01
100	-0.1566E+01	-0.4137E+00	0.9623E+00	0.9954E-01	-0.5490E-01	0.8529E-01
101	-0.1311E+01	-0.4127E+00	0.6516E+00	0.1082E+00	-0.5367E-01	0.8680E-01
102	-0.9744E+00	-0.4112E+00	0.2304E+00	0.1157E+00	-0.3424E-01	0.8987E-01
113	-0.1790E+01	-0.1100E+01	0.6529E+00	0.1225E+00	-0.1132E+00	0.8207E-01

114	-0.2355E+01	-0.1640E+01	0.6539E+00	0.1304E+00	-0.1450E+00	0.7766E-01
115	-0.3011E+01	-0.2207E+01	0.6547E+00	0.1369E+00	-0.1593E+00	0.7326E-01
116	-0.4026E+01	-0.3103E+01	0.6558E+00	0.1518E+00	-0.1599E+00	0.6677E-01
118	-0.4519E+01	-0.3459E+01	0.1024E+01	0.1698E+00	-0.1472E+00	0.5918E-01
9023	-0.4696E+01	-0.3454E+01	0.5174E+01	0.5850E-01	-0.4621E-01	-0.7399E-01
120	-0.4209E+00	-0.3455E+01	0.3172E+01	-0.1798E+00	0.5479E-01	-0.1509E+00
122	-0.3507E+00	-0.2990E+01	0.2737E+01	-0.2103E+00	0.6621E-01	-0.1383E+00
124	-0.5573E-01	-0.2076E+01	0.2737E+01	-0.2137E+00	0.7057E-01	-0.1222E+00
125	0.6563E+00	-0.2231E+00	0.2734E+01	-0.1221E+00	0.6829E-51	-0.8368E-01
127	0.6402E+00	-0.2125E-01	0.2854E+01	-0.1432E-01	0.6566E-01	-0.6881E-01
128	-0.2959E+00	-0.1845E-01	0.2566E+00	0.9691E-01	0.3871E-01	-0.7332E-02
9024	-0.1856E+00	-0.9225E-02	-0.3165E+00	-0.1290E-01	0.1936E-01	0.1357E-01
130	-0.1466E-07	-0.2017E-06	-0.5058E-07	-0.5632E-08	0.1099E-08	0.2360E-08
48	-0.5903E+00	0.1314E+01	-0.1703E+01	0.2212E+00	0.5772E-02	-0.2035E-01
49	-0.5888E+00	0.1156E+01	-0.1739E+01	0.2276E+00	0.5938E-02	-0.3677E-01
50	-0.5871E+00	0.9467E+00	-0.1762E+01	0.2339E+00	0.2287E-02	-0.3960E-01
51	-0.5866E+00	0.8850E+00	-0.1765E+01	0.2358E+00	0.8251E-03	-0.3755E-01
52	-0.5847E+00	0.7092E+00	-0.1753E+01	0.2428E+00	-0.5723E-02	-0.1848E-01
53	-0.5758E+00	0.1350E-01	-0.1267E+01	0.2735E+00	-0.3194E-01	0.5177E-01
54	-0.5619E+00	0.2710E+01	-0.2289E+00	0.3187E+00	-0.7871E-02	-0.2824E-02
55	-0.5616E+00	0.2706E+01	-0.2241E+00	0.3197E+00	-0.6305E-02	-0.5609E-02
56	-0.5434E+00	0.1405E+01	-0.2288E+00	0.3319E+00	0.3549E-02	-0.4011E-01
57	-0.5330E+00	0.6561E+00	-0.2291E+00	0.3337E+00	0.9694E-03	-0.5061E-01
58	-0.5351E+00	-0.1327E-01	-0.2294E+00	0.3351E+00	-0.2344E-02	-0.5994E-01
59	-0.5498E+00	-0.1022E+01	-0.2298E+00	0.3368E+00	-0.6716E-02	-0.7395E-01
103	-0.5506E+00	-0.6089E+00	-0.2825E+00	0.3405E+00	-0.2867E-01	-0.1861E+00
104	-0.5538E+00	0.2112E+01	-0.7101E+00	0.3553E+00	-0.4201E-01	-0.3057E+00
105	-0.5548E+00	0.2937E+01	-0.8092E+00	0.3602E+00	-0.2196E-01	-0.2337E+00
106	-0.5556E+00	0.3499E+01	-0.8406E+00	0.3650E+00	-0.4508E-03	-0.1437E+00
107	-0.5584E+00	0.4086E+01	-0.7424E+00	0.3834E+00	-0.9734E-02	-0.3165E-01
109	-0.5913E+00	0.3569E+01	-0.7671E+00	0.3837E+00	-0.2602E-01	-0.6734E-01
111	-0.6794E+00	0.2312E+01	-0.7668E+00	0.3383E+00	-0.1656E-01	-0.1351E+00
112	-0.6931E+00	0.1875E+01	-0.7667E+00	0.3027E+00	0.7178E-03	-0.1636E+00
60	-0.5757E+00	-0.2035E+01	-0.2301E+00	0.3377E+00	-0.1033E-01	-0.8557E-01
61	-0.6121E+00	-0.3050E+01	-0.2304E+00	0.3377E+00	-0.1380E-01	-0.9718E-01
62	-0.6155E+00	-0.3134E+01	-0.2305E+00	0.3376E+00	-0.1408E-01	-0.9815E-01
63	-0.6849E+00	-0.3962E+01	-0.3114E+00	0.3313E+00	-0.2412E-01	-0.1270E+00
64	-0.6849E+00	-0.2364E+01	-0.5878E+00	0.3247E+00	-0.2225E-01	-0.1643E+00
65	-0.6849E+00	-0.1497E+01	-0.6875E+00	0.3216E+00	-0.1598E-01	-0.1820E+00
131	-0.9013E-01	-0.1498E+01	0.3598E+00	0.3236E+00	-0.1598E-01	-0.1831E+00
132	0.5085E+00	-0.1499E+01	0.1421E+01	0.3255E+00	-0.1598E-01	-0.1838E+00
66	-0.6854E+00	-0.5570E+00	-0.7477E+00	0.3124E+00	-0.8163E-02	-0.1864E+00
67	-0.6858E+00	0.2323E+00	-0.7684E+00	0.3046E+00	-0.1691E-02	-0.1781E+00
68	-0.6861E+00	0.7569E+00	-0.7666E+00	0.2990E+00	0.2735E-02	-0.1657E+00
69	-0.6865E+00	0.1236E+01	-0.7504E+00	0.2917E+00	0.7746E-02	-0.1485E+00
70	-0.6868E+00	0.1558E+01	-0.7286E+00	0.2862E+00	0.1128E-01	-0.1323E+00
71	-0.6874E+00	0.2121E+01	-0.6530E+00	0.2740E+00	0.1840E-01	-0.8640E-01
133	-0.4026E+00	0.2122E+01	0.2355E+00	0.2756E+00	0.1840E-01	-0.8692E-01
134	-0.1206E+00	0.2124E+01	0.1143E+01	0.2771E+00	0.1840E-01	-0.8676E-01
72	-0.6893E+00	0.2406E+01	-0.5445E+00	0.2555E+00	0.2362E-01	-0.3136E-01
73	-0.6977E+00	0.1210E+01	-0.3741E-01	0.1736E+00	0.1111E-01	0.1060E+00
74	-0.6986E+00	0.9351E+00	-0.1496E-01	0.1644E+00	0.6132E-02	0.1101E+00
75	-0.7004E+00	0.3707E+00	-0.1046E-01	0.1460E+00	-0.5300E-02	0.1103E+00
76	-0.7019E+00	-0.1685E+00	-0.6807E-01	0.1276E+00	-0.1870E-01	0.9960E-01
77	-0.7026E+00	-0.4106E+00	-0.1232E+00	0.1184E+00	-0.2614E-01	0.9000E-01
78	-0.7029E+00	-0.7314E+00	-0.2206E+00	0.1119E+00	-0.2247E-01	0.7052E-01
9021	-0.7044E+00	-0.1022E+01	-0.5130E+00	0.6559E-01	0.1104E-02	-0.4147E-01
79	-0.7053E+00	0.1028E+01	-0.2847E+00	0.1925E-01	0.1093E-01	-0.8702E-01
80	-0.7054E+00	0.1971E+01	-0.1746E+00	0.1645E-02	0.8312E-02	-0.8442E-01
81	-0.7054E+00	0.2196E+01	-0.1515E+00	-0.2706E-02	0.7000E-02	-0.8258E-01
82	-0.7161E+00	0.2455E+01	-0.1354E+00	-0.1556E-01	0.1189E-03	-0.7357E-01
9022	-0.5204E+00	0.1647E+01	-0.1346E+00	-0.4554E-01	-0.1404E-01	-0.4383E-01
83	-0.1092E+00	0.3715E+00	-0.1336E+00	-0.4507E-01	-0.1450E-01	-0.1409E-01
84	-0.7609E-01	0.2684E+00	-0.1335E+00	-0.4253E-01	-0.1355E-01	-0.1136E-01
85	-0.5390E-01	0.1986E+00	-0.1335E+00	-0.4043E-01	-0.1277E-01	-0.9449E-02
86	-0.3069E-02	0.3405E-02	-0.4597E-01	-0.2063E-01	-0.5742E-02	-0.4366E-03
87	-0.2198E-07	0.5697E-07	-0.3405E-01	-0.1560E-07	-0.1284E-08	0.1871E-08

COUPLED MODE SHAPES (FOR SECONDARY MODE) MODE 32
FREQUENCY (HZ.) = 26.73311

MODAL DISP AT PRIMARY SYSTEM CONNETING DOF

DOF #	DISPLACEMENT
3041	-0.2110E-03
3042	0.0000E+00
3043	0.1855E-05
3061	-0.3873E-03
3063	0.6234E-05
3072	0.0000E+00
3081	-0.4643E-03
3103	0.2244E-04
3121	-0.4675E-03
3122	0.0000E+00
3123	0.2928E-04
3091	-0.4709E-03
3092	0.0000E+00
3093	0.1390E-04

MODAL DISPLACEMENTS AT SECONDARY SYSTEM DOF

MODE	DX	DY	DZ	ROT-X	ROT-Y	ROT-Z
1	0.4615E-07	-0.1035E-07	-0.6862E-08	0.1342E-08	-0.1798E-08	0.2716E-09
2	0.3839E	0.3506E-02	0.3412E-02	0.1267E-02	-0.8714E-03	-0.1358E-03
3	0.5988	-0.3344E-04	-0.3343E-02	0.2734E-02	0.2409E-02	-0.2472E-02
4	0.7455E-02	-0.2017E+00	-0.1317E+00	0.4013E-02	0.5951E-02	-0.1464E-01
5	0.8191E-02	-0.4642E+00	-0.2088E+00	0.4656E-02	0.5334E-02	-0.2543E-01

9001	0.2223E-01	-0.5150E+00	-0.2161E+00	0.4779E-02	0.4998E-02	-0.2890E-01
9002	0.6469E-01	-0.5569E+00	-0.2161E+00	0.4956E-02	0.4672E-02	-0.3229E-01
6	0.1267E+00	-0.5737E+00	-0.2089E+00	0.5144E-02	0.4389E-02	-0.3537E-01
7	0.2108E+00	-0.5736E+00	-0.1973E+00	0.5261E-02	0.4088E-02	-0.3698E-01
9003	0.3499E+01	-0.5722E+00	0.5430E-02	0.4967E-02	-0.8407E-03	-0.1853E-01
9004	0.1215E+01	-0.5699E+00	0.1155E+00	0.2965E-03	-0.5769E-02	0.2972E-01
9	0.1374E+00	-0.5667E+00	0.2734E-01	-0.4365E-02	-0.1070E-01	0.9439E-02
10	0.1183E+00	-0.5660E+00	-0.1802E-02	-0.4713E-02	-0.1155E-01	-0.2449E-02
9005	0.6971E+00	-0.5617E+00	-0.1353E+00	-0.2683E-02	-0.1574E-01	-0.2414E-01
9006	0.1178E+01	-0.5567E+00	-0.1336E+00	0.2865E-02	-0.1992E-01	-0.1576E-02
11	0.7691E+00	-0.5511E+00	0.2036E-01	0.6021E-02	-0.2411E-01	0.2362E-01
12	0.4982E+00	-0.5490E+00	0.8508E-01	0.5889E-02	-0.2555E-01	0.2549E-01
9007	0.4501E+00	-0.5358E+00	0.1090E+00	0.5765E-02	-0.2581E-01	0.2486E-01
9008	0.4159E+00	-0.5015E+00	0.1525E+00	0.5664E-02	-0.2609E-01	0.2107E-01
13	0.4044E+00	-0.4593E+00	0.2045E+00	0.5548E-02	-0.2640E-01	0.1961E-01
14	0.4042E+00	-0.4080E+00	0.2776E+00	0.5357E-02	-0.2664E-01	0.1533E-01
15	0.4039E+00	-0.3531E+00	0.4389E+00	0.4942E-02	-0.2713E-01	-0.6497E-03
16	0.4031E+00	-0.6405E+00	0.8330E+00	0.3976E-02	-0.3013E-01	-0.3491E-01
17	0.3681E+00	-0.7482E+00	0.9153E+00	0.4172E-02	-0.3205E-01	-0.4152E-01
18	0.2060E+00	-0.9847E+00	0.1077E+01	-0.7230E-03	-0.3351E-01	-0.4865E-01
19	-0.2773E-01	-0.1294E+01	0.1310E+01	-0.1455E-01	-0.3306E-01	-0.5184E-01
20	-0.5878E+00	-0.1507E+01	0.1866E+01	-0.8048E-01	-0.2745E-01	-0.3093E-01
21	-0.5905E+00	-0.1125E+01	0.1557E+01	-0.1118E+00	-0.2500E-01	-0.1137E-01
9009	-0.8565E+00	-0.1125E+01	-0.3243E+01	-0.7855E-01	-0.1911E-01	0.9818E-02
9010	-0.7855E+00	-0.1124E+01	-0.2976E+01	0.8881E-01	-0.1322E-01	-0.1440E-01
22	-0.1142E+00	-0.1120E+01	0.1808E+01	0.9892E-01	-0.7334E-02	-0.7391E-02
23	-0.9156E-01	-0.1119E+01	0.2515E+01	0.6527E-01	-0.6086E-02	0.2992E-02
24	-0.2940E+00	-0.1116E+01	0.2980E+01	-0.8818E-02	-0.3682E-02	0.1862E-01
9011	-0.9184E+00	-0.1109E+01	0.7511E+00	-0.1051E+00	0.1221E-02	0.1115E-01
9012	-0.7733E+00	-0.1101E+01	-0.2582E+01	-0.6794E-01	0.6123E-02	-0.2086E-01
25	0.2148E+00	-0.1092E+01	-0.2871E+01	0.5306E-01	0.1103E-01	-0.3048E-01
26	0.4894E+00	-0.1089E+01	-0.2202E+01	0.8603E-01	0.1242E-01	-0.2620E-01
9013	0.8983E+00	-0.1077E+01	0.1710E+01	0.1026E+00	0.1762E-01	0.6544E-02
9014	0.1323E+00	-0.1063E+01	0.3541E+01	-0.1241E-01	0.2283E-01	0.3009E-01
27	-0.7411E+00	-0.1048E+01	0.1273E+01	-0.8922E-01	0.2803E-01	0.1113E-01
28	-0.7800E+00	-0.1042E+01	0.1456E+00	-0.7478E-01	0.2997E-01	-0.5682E-02
29	-0.4344E+00	-0.1032E+01	-0.9038E+00	-0.2971E-01	0.3291E-01	-0.2669E-01
9015	0.8476E+00	-0.1012E+01	-0.6730E+00	0.3442E-01	0.3[illegible]E-01	-0.2204E-01
9016	0.7232E+00	-0.9902E+00	0.8131E+00	0.2875E-01	0.4[illegible]88E-01	0.2253E-01
30	-0.8292E+00	-0.9659E+00	0.6851E+00	-0.4143E-01	0.4936E-01	0.5359E-01
31	-0.8830E+00	-0.9663E+00	0.6425E+00	-0.4377E-01	0.4951E-01	0.5387E-01
32	-0.9730E+00	-0.9065E+00	0.5091E+00	-0.5478E-01	0.4984E-01	0.5521E-[illegible]
35	-0.9013E+00	-0.7469E+00	0.4445E+00	-0.5714E-01	0.5030E-01	0.5626E-01
37	-0.4733E+00	-0.3434E+00	0.4445E+00	-0.2210E-01	0.5100E-01	0.5921E-01
9017	0.9584E+00	-0.2248E+01	0.4435E+00	0.9467E-01	0.2934E-01	0.7053E-01
9018	0.1186E+01	-0.4309E+01	0.4420E+00	0.6941E-02	-0.1513E-01	0.8166E-01
38	0.2965E+00	-0.2252E+01	0.4400E+00	-0.1228E+00	-0.2947E-01	0.9318E-01
39	0.2575E-01	-0.8343E+00	0.4392E+00	-0.1471E+00	-0.2100E-01	0.9681E-01
9019	-0.1088E+00	0.3881E+01	0.4358E+00	-0.9050E-01	0.1025E-01	0.1087E+00
40	0.5073E+00	0.4059E+01	0.4318E+00	0.8050E-01	0.2198E-01	0.1206E+00
41	0.1176E+01	0.2607E+00	0.4279E+00	0.1494E+00	0.2402E-01	0.1309E+00
43	0.1268E+01	0.2076E+00	0.3342E+00	0.1413E+00	0.2365E-01	0.1369E+00
44	0.1268E+01	0.4048E+00	0.2956E+00	0.1392E+00	0.2256E-01	0.1386E+00
45	0.1267E+01	0.9440E+00	0.2161E+00	0.1338E+00	0.1892E-01	0.1415E+00
9020	0.1264E+01	0.4283E+01	0.5769E-01	0.9283E-01	-0.6758E-03	0.6171E-01
46	0.1260E+01	0.3522E+01	-0.1089E+00	0.5190E-01	0.1915E-01	-0.1203E+00
47	0.1259E+01	0.3129E+01	-0.1721E+00	0.4759E-01	0.2347E-01	-0.1409E+00
91	0.1689E+01	0.3129E+01	-0.2502E-01	0.5195E-01	0.2595E-01	-0.1483E+00
92	0.1606E+01	0.3128E+01	0.7041E+00	0.7388E-01	0.4379E-01	-0.1865E+00
93	0.4531E+01	0.2826E+01	0.9985E+00	0.8181E-01	0.5459E-01	-0.2047E+00
94	0.4712E+01	0.2558E+01	0.9988E+00	0.8181E-01	0.5585E-01	-0.2115E+00
95	0.4894E+01	0.2152E+01	0.9993E+00	0.7848E-01	0.5540E-01	-0.2219E+00
96	0.5267E+01	0.1773E+01	0.9994E+00	0.6852E-01	0.5798E-01	-0.2324E+00
97	0.5281E+01	0.1755E+01	0.9994E+00	0.6778E-01	0.5833E-01	-0.2329E+00
98	0.4622E+01	0.1547E+01	0.8360E+00	0.2597E-01	0.7889E-01	-0.2400E+00
100	0.3539E+01	0.1546E+01	0.7651E+00	0.6417E-02	0.9605E-01	-0.2363E+00
101	0.2835E+01	0.1545E+01	0.7655E+00	-0.6581E-02	0.1075E+00	-0.2290E+00
102	0.1988E+01	0.1544E+01	0.8189E+00	-0.2174E-01	0.8022E-01	-0.2114E+00
113	0.3844E+01	0.1596E+01	0.7654E+00	-0.1128E-01	0.2466E+00	-0.2165E+00
114	0.5090E+01	0.1652E+01	0.7652E+00	-0.1507E-01	0.3220E+00	-0.2048E+00
115	0.6556E+01	0.1727E+01	0.7648E+00	-0.2238E-01	0.3574E+00	-0.1931E+00
116	0.8845E+01	0.1930E+01	0.7641E+00	-0.4732E-01	0.3619E+00	-0.1759E+00
118	0.1001E+02	0.2063E+01	0.6068E+00	-0.8504E-01	0.3346E+00	-0.1570E+00
9023	0.1081E+02	0.2057E+01	-0.2671E+01	-0.9300E-01	0.1166E+00	0.1665E+00
120	0.1753E+01	0.2048E+01	-0.2957E+01	0.8303E-01	-0.1014E+00	0.3571E+00
122	0.7070E+00	0.1802E+01	-0.2735E+01	0.1204E+00	-0.1255E+00	0.3281E+00
124	0.1459E+00	0.1255E+01	-0.2735E+01	0.1306E+00	-0.1335E+00	0.2912E+00
125	-0.1184E+01	0.1176E+00	-0.2731E+01	0.6831E-01	-0.1266E+00	0.2028E+00
127	-0.1056E+01	0.2666E-01	-0.2769E+01	-0.1467E-01	-0.1221E+00	0.1683E+00
129	0.1188E+01	0.1575E-01	-0.2151E+00	-0.8639E-01	-0.7201E-01	0.8951E-02
9024	0.6493E+00	0.787[illegible]E-02	0.2983E+00	0.1204E-01	-0.3600E-01	-0.4960E-01
130	0.4650E-07	0.[illegible]21E-06	0.4561E-07	0.5110E-08	-0.2045E-08	-0.7964E-08
48	0.1258E[illegible]	[illegible].2700E+01	-0.2445E+00	0.3126E-01	0.2401E-01	-0.1454E+00
49	0.125[illegible]E+01	0.1954E+01	-0.3652E+00	0.4031E-02	0.2330E-01	-0.1527E+00
50	0.1254[illegible]01	0.1172E+01	-0.4774E+00	-0.2319E-01	0.2102E-01	-0.1574E+00
51	0.1253E[illegible]1	0.9346E+00	-0.5085E+00	-0.3136E-01	0.2011E-01	-0.1576E+00
52	0.1250E+01	0.6617E-01	-0.6091E+00	-0.6129E-01	0.1599E-01	-0.1555E+00
53	0.1238E+01	-0.3113E+01	-0.7173E+00	-0.1933E+00	-0.8287E-02	-0.9259E-01
54	0.1217E+01	-0.3849E+01	0.1286E+00	-0.3880E+00	-0.3176E-01	0.4811E-01
55	0.1217E+01	-0.3812E+01	0.1545E+00	-0.3920E+00	-0.3193E-01	0.5081E-01
56	0.1097E+01	-0.2006E+01	0.2826E+00	-0.4303E+00	-0.1984E-01	0.8205E-01
57	0.1056E+01	-0.1028E+01	0.2829E+00	-0.4170E+00	-0.1015E-01	0.8966E-01
58	0.1048E+01	-0.1464E+00	0.2831E+00	-0.4419E+00	-0.5404E-03	0.9643E-01
59	0.1070E+01	0.1191E+01	0.2835E+00	-0.4471E+00	0.1093E-01	0.1066E+00
103	0.1071E+01	0.6393E+00	0.3472E+00	-0.4478E+00	0.2917E-01	0.1323E+00
104	0.1077E+01	-0.2561E+01	0.7294E+00	-0.4509E+00	0.3414E-01	0.1461E+00
105	0.1079E+01	-0.3480E+01	0.8046E+00	-0.4519E+00	0.3428E-01	0.1526E+00
106	0.1080E+01	-0.4064E+01	0.8153E+00	-0.4528E+00	-0.5215E-02	0.1400E+00
107	0.1085E+01	-0.4428E+01	0.7771E+00	-0.4566E+00	0.3110E-01	0.1957E-01
109	0.1157E+01	-0.3792E+01	0.8385E+00	-0.4541E+00	0.5311E-01	0.7275E-01
111	0.1322E+01	-0.2340E+01	0.8382E+00	-0.3925E+00	0.2822E-01	0.1714E+00

112	0.1343E+01	-0.1813E+01	0.8180E+00	-0.3459E+00	-0.4565E-02	0.2128E+00
60	0.1119E+01	0.2541E+01	0.2638E+00	-0.4494E+00	0.1906E-01	0.1140E+00
61	0.1184E+01	0.3893E+01	0.2941E+00	-0.4486E+00	0.2469E-01	0.1215E+00
62	0.1195E+01	0.4005E+01	0.2842E+00	-0.4484E+00	0.2505E-01	0.1221E+00
63	0.1308E+01	0.5167E+01	0.4023E+00	-0.4323E+00	0.3145E-01	0.1454E+00
64	0.1310E+01	0.3345E+01	0.7204E+00	-0.4045E+00	0.2274E-01	0.1927E+00
65	0.1311E+01	0.2311E+01	0.8153E+00	-0.3918E+00	0.1371E-01	0.2230E+00
131	0.5788E+00	0.2312E+01	-0.4606E+00	-0.3943E+00	0.1371E-01	0.2243E+00
132	-0.1517E+00	0.2313E+01	-0.1754E+01	-0.3967E+00	0.1371E-01	0.2245E+00
66	0.1314E+01	0.1143E+01	0.8576E+00	-0.3712E+00	0.3782E-02	0.2342E+00
67	0.1316E+02	0.1.70E+00	0.8566E+00	-0.3536E+00	-0.3619E-02	0.2284E+00
68	0.1318E+01	-0.5368E+00	0.7780E+00	-0.3412E+00	-0.4220E-02	0.2158E+00
69	0.1320E+01	-0.1167E+01	0.8040E+00	-0.3266E+00	-0.1361E-01	0.1971E+00
70	0.1321E+01	-0.1597E+01	0.7685E+00	-0.3156E+00	-0.1715E-01	0.1788E+00
71	0.1324E+01	-0.2379E+01	0.6642E+00	-0.2911E+00	-0.2339E-01	0.1252E+00
133	0.9094E+00	-0.2380E+01	-0.2841E+00	-0.2530E+00	-0.2339E-01	0.1259E+00
134	0.5031E+00	-0.2382E+01	-0.1245E+01	-0.2946E+00	-0.2339E-01	0.1252E+00
72	0.1330E+01	-0.2819E+01	0.5345E+00	-0.2599E+00	-0.2630E-01	0.5409E-01
73	0.1356E+01	-0.1293E+01	0.2383E+00	-0.1214E+00	0.1652E-01	-0.1597E+00
74	0.1359E+01	-0.8728E+00	0.2927E+00	-0.1059E+00	0.2624E-01	-0.1727E+00
75	0.1365E+01	0.5036E-01	0.4714E+00	-0.7473E-01	0.4426E-01	-0.1912E+00
76	0.1370E+01	0.1040E+01	0.7356E+00	-0.4358E-01	0.6087E-01	-0.1993E+00
77	0.1372E+01	0.1543E+01	0.8981E+00	-0.2802E-01	0.6886E-01	-0.1996E+00
78	0.1373E+01	0.2260E+01	0.1155E+01	-0.2391E-01	0.5883E-01	-0.1584E+00
9021	0.1376E+01	0.3010E+01	0.1820E+01	0.5404E-02	-0.1113E-01	0.9077E-01
79	0.1377E+01	-0.1666E+01	0.8699E+00	0.3473E-01	-0.4306E-01	0.2026E+00
80	0.1377E+01	-0.1875E+01	0.4262E+00	0.4587E-01	-0.3539E-01	0.1988E+00
81	0.1377E+01	-0.4406E+01	0.3150E+00	0.4862E-01	-0.3141E-01	0.1948E+00
82	0.1448E+01	-0.4908E+01	0.2420E+00	0.5937E-01	-0.1073E-01	0.1762E+00
9022	0.1143E+01	-0.2998E+01	0.2394E+00	0.8941E-01	0.3022E-01	0.1067E+00
83	0.2132E+00	-0.6393E+00	0.2367E+00	0.8128E-01	0.3299E-01	0.3714E-01
84	0.1381E+00	-0.4536E+00	0.2364E+00	0.7678E-01	0.3064E-01	0.3081E-01
85	0.8802E-01	-0.3276E+00	0.2362E+00	0.7315E-01	0.2868E-01	0.2628E-01
86	-0.4702E-02	0.4407E-02	0.8596E-01	0.3841E-01	0.1182E-01	0.4486E-02
87	0.5647E-07	-0.8718E-07	0.9478E-07	0.2984E-07	0.2330E-08	-0.3299E-09

COUPLED MODE SHAPES (FOR SECONDARY MODE) MODE 33
FREQUENCY (HZ.) = 26.88599

MODAL DISP AT PRIMARY SYSTEM CONNETING DOF

DOF	DISPLACEMENT
3041	-0.9667E-04
3042	0.0000E+00
3043	0.2253E-04
3061	-0.1486E-03
3063	0.7572E-04
3072	0.0000E+00
3081	-0.1310E-03
3103	0.2726E-03
3121	0.4496E-04
3122	0.0000E+00
3123	0.3557E-03
3091	-0.1067E-03
3092	0.0000E+00
3093	0.1685E-03

MODAL DISPLACEMENTS AT SECONDARY SYSTEM DOF

NODE	DX	DY	DZ	ROT-X	ROT-Y	ROT-Z
1	-0.3836E-07	-0.3700E-08	0.7923E-08	-0.8016E-10	0.9116E-09	0.1260E-08
2	-0.2886E-02	0.2972E-02	-0.1497E-02	-0.1949E-03	0.2381E-03	0.1562E-02
3	0.4479E-03	0.5321E-01	0.1481E-01	0.1542E-03	-0.2727E-02	0.5690E-02
4	-0.7753E-03	0.7310E+00	0.1115E+00	0.1766E-02	-0.2723E-02	0.1610E-01
5	-0.1390E-02	0.5958E+00	0.1268E+00	0.2607E-02	0.8521E-03	0.2415E-01
9001	-0.1448E-01	0.6434E+00	0.1255E+00	0.2639E-02	0.2074E-02	0.2677E-01
9002	-0.5337E-01	0.6819E+00	0.1256E+00	0.2566E-02	0.3186E-02	0.2934E-01
6	-0.1110E+00	0.6970E+00	0.1287E+00	0.2546E-02	0.4174E-02	0.3166E-01
7	-0.1842E+00	0.6970E+00	0.1345E+00	0.2552E-02	0.5279E-02	0.3285E-01
9003	-0.1286E+01	0.6955E+00	0.1848E+00	-0.9315E-03	0.2355E-01	0.1497E-01
9004	-0.1010E+01	0.6930E+00	0.6980E-01	-0.4097E-02	0.4142E-01	-0.2578E-01
9	-0.1274E+00	0.6893E+00	-0.4332E-03	0.2388E-02	0.5950E-01	-0.5236E-02
10	-0.1313E+00	0.6884E+00	0.2189E-01	0.4752E-02	0.6263E-01	0.5475E-02
9005	-0.7223E+00	0.6833E+00	0.2906E+00	0.9862E-02	0.7798E-01	0.2211E-01
9006	-0.1085E+01	0.6775E+00	0.5548E+00	0.6748E-02	0.9333E-01	-0.3452E-02
11	-0.4900E+00	0.6[illegible]E+00	0.8216E+00	0.1439E-01	0.1087E+00	-0.3064E-01
12	-0.1376E+00	0.6[illegible]E+00	0.1020E+01	0.2385E-01	0.1140E+00	-0.3386E-01
9007	-0.7345E-01	0.6506E+00	0.1010E+01	0.2798E-01	0.1146E+00	-0.3388E-01
9008	-0.2643E-01	0.6033E+00	0.8932E+00	0.3182E-01	0.1149E+00	-0.3264E-01
13	-0.9933E-02	0.5425E+00	0.6935E+00	0.3536E-01	0.1153E+00	-0.2949E-01
14	-0.9845E-02	[illegible]634E+00	0.3749E+00	0.4027E-01	0.1154E+00	-0.2514E-01
15	-0.9653E-02	0.[illegible]518E+00	-0.3162E+00	0.5096E-01	0.1139E+00	-0.7729E-02
16	-0.9201E-02	0.5803E+00	-0.1838E+01	0.7584E-01	0.1019E+00	0.3689E-01
17	0.9786E-01	0.6084E+00	-0.2100E+01	0.8039E-01	0.9472E-01	0.4881E-01
18	0.5376E+00	0.4670E+00	-0.2519E+01	0.9579E-01	0.8402E-01	0.6793E-01
19	0.1062E+01	0.2709E+00	-0.3063E+01	0.1218E+00	0.6673E-01	0.9071E-01
20	0.1972E+01	-0.6752E+00	-0.3972E+01	0.2123E+00	0.3985E-01	0.1294E+00
21	0.1591E+01	-0.9282E+00	-0.3196E+01	0.2457E+00	0.3851E-01	0.1280E+00
9009	-0.2513E+01	-0.9246E+00	0.5984E+01	0.1303E+00	0.5758E-01	0.5074E-01
9010	-0.2040E+01	-0.9193E+00	0.4754E+01	-0.1747E+00	0.7665E-01	-0.5955E-01
22	-0.1419E+00	-0.9123E+00	-0.3851E+01	-0.1614E+00	0.9572E-01	0.1281E-01
23	-0.4537E+00	-0.9106E+00	-0.4952E+01	-0.9368E-01	0.9976E-01	0.6421E-01
24	-0.2201E+01	-0.9067E+00	-0.5323E+01	0.4698E-01	0.1076E+00	0.1322E+00
9011	-0.5963E+01	-0.8980E+00	-0.4380E+00	0.2027E+00	0.1234E+00	0.4591E-01
9012	-0.4080E+01	-0.8881E+00	0.5364E+01	0.9900E-01	0.1393E+00	-0.1493E+00
25	0.2201E+01	-0.8770E+00	0.4821E+01	-0.1287E+00	0.1552E+00	-0.1789E+00
26	0.3736E+01	-0.8737E+00	0.3324E+01	-0.1824E+00	0.1597E+00	-0.1397E+00

9013	0.5159E+01	-0.8603E+00	-0.4116E+01	-0.1762E+00	0.1766E+00	0.7155E-01
9014	-0.1931E+00	-0.8457E+00	-0.6611E+01	0.5013E-01	0.1934E+00	0.1844E+00
27	-0.4888E+01	-0.8299E+00	-0.2074E+01	0.1461E+00	0.2103E+00	0.3662E-01
28	-0.4682E+01	-0.8236E+00	-0.4476E+00	0.8639E-01	0.2166E+00	-0.6869E-01
29	-0.1951E+01	-0.8135E+00	0.9469E-01	-0.2140E-01	0.2261E+00	-0.1880E+00
9015	0.5169E+01	-0.7936E+00	-0.2200E+01	-0.6601E-01	0.2438E+00	-0.3216E+00
9016	0.4452E+01	-0.7724E+00	-0.3346E+01	0.1106E-01	0.2616E+00	-0.4536E+00
30	-0.5220E+01	-0.7499E+00	-0.2482E+01	-0.2518E-02	0.2794E+00	0.2993E+00
31	-0.5519E+01	-0.7493E+00	-0.2486E+01	-0.5926E-02	0.2798E+00	0.2986E+00
32	-0.5998E+01	-0.7263E+00	-0.2526E+01	-0.2514E-01	0.2819E+00	0.2942E+00
35	-0.5558E+01	-0.6313E+00	-0.2561E+01	-0.3857E-01	0.2849E+00	0.2901E+00
37	-0.3146E+01	-0.3044E+00	-0.2559E+01	-0.2320E-01	0.2892E+00	0.2796E+00
9017	0.5092E+01	-0.1359E+01	-0.2547E+01	0.5907E-01	0.1738E+00	0.2395E+00
9018	0.6676E+01	-0.2717E+01	-0.2531E+01	0.7327E-02	-0.7740E-01	0.1993E+00
38	0.1746E+01	-0.1494E+01	-0.2513E+01	-0.7666E-01	-0.1705E+00	0.1592E+00
39	0.1442E+00	-0.6004E+00	-0.2507E+01	-0.9351E-01	-0.1287E+00	0.1463E+00
9019	-0.1339E+01	0.2463E-01	-0.2480E+01	-0.6073E-01	0.2486E-01	0.1040E+00
40	0.3273E+00	0.2692E+01	-0.2450E+01	0.4804E-01	0.4273E-01	0.6179E-01
41	0.1451E+00	0.3711E+00	-0.2421E+01	0.9104E-01	-0.7573E-01	0.2528E-01
43	-0.2273E+00	0.1115E+00	-0.1965E+01	0.8600E-01	-0.1252E+00	0.1896E-01
44	-0.2272E+00	0.1377E+00	-0.1796E+01	0.8445E-01	-0.1261E+00	0.1844E-01
45	-0.2268E+00	0.2061E+00	-0.1307E+01	0.8034E-01	-0.1159E+00	0.1724E-01
9020	-0.2233E+00	0.5085E+00	0.1997E+00	0.4960E-01	-0.3436E-02	0.2229E-02
46	-0.2196E+00	0.3236E+00	-0.3631E+00	0.1886E-01	0.2794E-01	-0.1382E-01
47	-0.2192E+00	0.2803E+00	-0.4460E+00	0.1561E-01	0.2637E-01	-0.1503E-01
91	-0.1735E+00	0.2802E+00	-0.3994E+00	0.1538E-01	0.2606E-01	-0.1570E-01
92	0.2511E-01	0.2799E+00	-0.2338E+00	0.1436E-01	0.2382E-01	-0.1902E-01
93	0.1652E+00	0.2259E+00	-0.1804E+00	0.1348E-01	0.2225E-01	-0.2007E-01
94	0.2563E+00	0.1838E+00	-0.1804E+00	0.1265E-01	0.2141E-01	-0.2050E-01
95	0.3598E+00	0.1246E+00	-0.1804E+00	0.1041E-01	0.1972E-01	-0.2116E-01
96	0.4537E+00	0.7966E-01	-0.1803E+00	0.6827E-02	0.1801E-01	-0.2183E-01
97	0.4581E+00	0.7792E-01	-0.1803E+00	0.6610E-02	0.1793E-01	-0.2186E-01
98	0.4366E+00	0.6642E-01	-0.1801E+00	-0.4202E-02	0.1547E-01	-0.2279E-01
100	0.3337E+00	0.6620E-01	-0.1505E+00	-0.8777E-02	0.1413E-01	-0.2270E-01
101	0.2657E+00	0.6606E-01	-0.1196E+00	-0.1165E-01	0.1324E-01	-0.2236E-01
102	0.1820E+00	0.6583E-01	-0.7071E-01	-0.1401E-01	0.7702E-02	-0.2133E-01
113	0.3839E+00	0.1461E+00	-0.1198E+00	-0.1558E-01	0.2801E-01	-0.2137E-01
114	0.5239E+00	0.2182E+00	-0.1199E+00	-0.1790E-01	0.3602E-01	-0.2044E-01
115	0.6873E+00	0.2976E+00	-0.1200E+00	-0.1946E-01	0.3974E-01	-0.1950E-01
116	0.9411E+00	0.4257E+00	-0.1202E+00	-0.2146E-01	0.4004E-01	-0.1812E-01
118	0.1068E+01	0.4754E+00	-0.1711E+00	-0.2308E-01	0.3694E-01	-0.1638E-01
9023	0.1156E+01	0.4751E+00	-0.6866E+00	-0.5191E-02	0.1211E-01	0.1742E-01
120	0.1994E+00	0.4742E+00	-0.3473E+00	0.2549E-01	-0.1272E-01	0.3775E-01
122	0.8405E-01	0.4112E+00	-0.2865E+00	0.2881E-01	-0.1551E-01	0.3466E-01
124	0.1484E-01	0.2869E+00	-0.2865E+00	0.2902E-01	-0.1652E-01	0.3070E-01
125	-0.1511E+00	0.3282E-01	-0.2861E+00	0.1747E-01	-0.1587E-01	0.2123E-01
127	-0.1437E+00	0.3836E-02	-0.3062E+00	0.4054E-02	-0.1527E-01	0.1755E-01
129	0.9464E-01	0.2264E-02	-0.3058E-01	-0.1107E-01	-0.9006E-02	0.1549E-02
9024	0.5567E-01	0.1133E-02	0.3669E-01	0.1421E-02	-0.4503E-02	-0.4150E-02
130	0.4220E-08	0.2476E-07	0.5743E-08	0.6365E-09	-0.2557E-09	-0.6969E-09
48	-0.2189E+00	0.2158E+00	-0.5234E+00	0.1311E-01	0.2448E-01	-0.1484E-01
49	-0.2183E+00	0.1620E+00	-0.6364E+00	0.8959E-02	0.1978E-01	-0.1490E-01
50	-0.2176E+00	0.8679E-01	-0.7213E+00	0.4790E-02	0.1395E-01	-0.1523E-01
51	-0.2174E+00	0.6388E-01	-0.7409E+00	0.3540E-02	0.1211E-01	-0.1534E-01
52	-0.2166E+00	-0.2163E-01	-0.7888E+00	-0.1042E-02	0.5188E-02	-0.1581E-01
53	-0.2131E+00	-0.3840E+00	-0.6027E+00	-0.2126E-01	-0.1743E-01	-0.1161E-01
54	-0.2076E+00	-0.5134E+00	-0.5249E-01	-0.5106E-01	-0.2660E-03	0.5216E-02
55	-0.2075E+00	-0.5093E+00	-0.5271E-01	-0.5169E-01	0.8879E-03	0.5606E-02
56	-0.1657E+00	-0.2725E+00	-0.7857E-01	-0.5766E-01	0.1451E-01	0.1035E-01
57	-0.1295E+00	-0.1412E+00	-0.7856E-01	-0.5880E-01	0.1575E-01	0.1154E-01
58	-0.9702E-01	-0.2241E-01	-0.7855E-01	-0.5968E-01	0.1623E-01	0.1259E-01
59	-0.4696E-01	0.1587E+00	-0.7854E-01	-0.6074E-01	0.1654E-01	0.1418E-01
103	-0.4685E-01	0.7943E-01	-0.2469E-01	-0.6153E-01	0.1019E-01	0.3564E-01
104	-0.4537E-01	-0.4311E+00	-0.5830E-02	-0.6476E-01	-0.2482E-02	0.5545E-01
105	-0.4495E-01	-0.5770E+00	-0.1344E-01	-0.6580E-01	-0.2095E-02	0.3977E-01
106	-0.4451E-01	-0.6670E+00	-0.1676E-01	-0.6665E-01	0.3202E-03	0.2080E-01
107	-0.4282E-01	-0.6910E+00	0.1109E+00	-0.7084E-01	0.2640E-01	-0.7502E-03
109	0.4004E-02	-0.5860E+00	0.1548E+00	-0.7102E-01	0.1168E-01	0.7529E-02
111	0.9637E-01	-0.3581E+00	0.1548E+00	-0.6176E-01	0.1678E-01	0.2300E-01
112	0.1112E+00	-0.2751E+00	0.1547E+00	-0.5451E-01	0.1820E-02	0.2949E-01
60	0.3117E-02	0.3426E+00	-0.7852E-01	-0.6145E-01	0.1648E-01	0.1530E-01
61	0.5269E-01	0.5261E+00	-0.7851E-01	-0.6176E-01	0.1607E-01	0.1643E-01
62	0.5653E-01	0.5435E+00	-0.7850E-01	-0.6177E-01	0.1602E-01	0.1652E-01
63	0.1133E+00	0.7066E+00	-0.2537E-01	-0.6093E-01	0.1270E-01	0.1976E-01
64	0.1137E+00	0.4583E+00	0.8965E-01	-0.5933E-01	0.7954E-02	0.2621E-01
65	0.1138E+00	0.3178E+00	0.1234E+00	-0.5861E-01	0.5436E-02	0.3023E-01
131	0.1502E-01	0.3179E+00	-0.8746E-01	-0.5899E-01	0.5435E-02	0.3042E-01
132	-0.8466E-01	0.3181E+00	-0.2610E+00	-0.5934E-01	0.5436E-02	0.3054E-01
66	0.1140E+00	0.1582E+00	0.1441E+00	-0.5663E-01	0.3011E-02	0.3216E-01
67	0.1142E+00	0.2002E-01	0.1528E+00	-0.5496E-01	0.1266E-02	0.3160E-01
68	0.1144E+00	-0.7397E-01	0.1547E+00	-0.5377E-01	0.2181E-03	0.2997E-01
69	0.1146E+00	-0.1616E+00	0.1528E+00	-0.5223E-01	-0.1273E-02	0.2748E-01
70	0.1147E+00	-0.2217E+00	0.1486E+00	-0.5107E-01	-0.2264E-02	0.2500E-01
71	0.1150E+00	-0.3316E+00	0.1321E+00	-0.4850E-01	-0.4065E-02	0.1768E-01
133	0.5696E-01	-0.3317E+00	-0.2603E-01	-0.4881E-01	-0.4065E-02	0.1778E-01
134	-0.8777E-03	-0.3320E+00	-0.1859E+00	-0.4906E-01	-0.4065E-02	0.1778E-01
72	0.1156E+00	-0.3960E+00	0.1080E+00	-0.4451E-01	-0.5327E-02	0.8551E-02
73	0.1176E+00	-0.2441E+00	-0.2072E-01	-0.2679E-01	-0.4185E-02	-0.1782E-01
74	0.1181E+00	-0.1971E+00	-0.3058E-01	-0.2479E-01	-0.3283E-02	-0.1925E-01
75	0.1185E+00	-0.9455E-01	-0.4175E-01	-0.2081E-01	-0.2200E-03	-0.2099E-01
76	0.1190E+00	0.1292E-01	-0.3677E-01	-0.1682E-01	0.3131E-02	-0.2110E-01
77	0.1192E+00	0.6573E-01	-0.2659E-01	-0.1483E-01	0.5396E-02	-0.2051E-01
78	0.1192E+00	0.1395E+00	-0.6392E-02	-0.1391E-01	0.4701E-02	-0.1636E-01
9021	0.1195E+00	0.2354E+00	0.6459E-01	-0.7362E-02	0.4872E-03	0.7921E-02
79	0.1197E+00	-0.1856E+00	0.4383E-01	-0.8098E-03	-0.1315E-02	0.1833E-01
80	0.1197E+00	-0.3852E+00	0.3044E-01	0.1680E-02	-0.5872E-03	0.1794E-01
81	0.1197E+00	-0.4331E+00	0.2796E-01	0.3293E-02	-0.7999E-03	0.1757E-01
82	0.1204E+00	-0.4838E+00	0.2614E-01	0.4223E-02	0.2188E-03	0.1577E-01
9022	0.8462E-01	-0.3119E+00	0.2600E-01	0.4955E-02	0.2383E-02	0.9511E-02
83	0.1585E-01	-0.6753E-01	0.2564E-01	0.4497E-02	0.2416E-02	0.3249E-02
84	0.1034E-01	-0.4813E-01	0.2583E-01	0.4002E-02	0.2260E-02	0.2679E-02

85	0.6640E-02	-0.3501E-01	0.2561E-01	0.7597E-02	0.2131E-02	0.2272E-02
86	-0.1644E-03	0.5828E-04	0.8789E-02	0.3819E-02	0.9659E-03	0.3244E-03
87	0.3496E-08	-0.1039E-07	0.5841E-08	0.2900E-08	0.1773E-09	-0.1227E-09

COUPLED MODE SHAPES (FOR SECONDARY MODE) MODE 34
FREQUENCY (HZ.) = 27.54039

MODAL DISP AT PRIMARY SYSTEM CONNETING DOF

DOF #	DISPLACEMENT
3041	-0.1725E-03
3042	0.0000E+00
3043	-0.4981E-05
3061	-0.3037E-03
3063	-0.1674E-04
3071	0.0000E+00
3081	-0.3430E-03
3103	-0.6028E-04
3121	-0.2664E-03
3122	0.0000E+00
3123	-0.7e62E-04
3091	-0.3362E-03
3092	0.0000E+00
3093	-0.3733E-04

MODAL DISPLACEMENTS AT SECONDARY SYSTEM DOF

MODE	DX	DY	DZ	ROT-X	ROT-Y	ROT-Z
1	-0.3130E-07	-0.1051E-07	0.1054E-07	-0.2408E-08	-0.8614E-09	-0.1120E-08
2	0.2252E-02	-0.8082E-02	0.2589E-02	-0.2371E-02	-0.1366E-02	-0.6824E-03
3	0.2000E-01	-0.4169E-01	[illegible]53E-01	-0.6746E-02	-0.6923E-02	-0.1817E-03
4	0.1899E-01	0.4194E-01	0.3217E+00	-0.1348E-01	-0.1084E-01	0.8271E-02
5	0.1848E-01	0.2033E+00	0.4621E+00	-0.1667E-01	-0.1002E-01	0.1445E-01
9001	0.9264E-02	0.2365E+00	0.4719E+00	-0.1741E-01	-0.9677E-02	0.1906E-01
9002	-0.1900E-01	0.2643E+00	0.4606E+00	-0.1804E-01	-0.9331E-02	0.2162E-01
6	-0.6214E-01	0.2756E+00	0.4308E+00	-0.1871E-01	-0.9080E-02	0.2394E-01
7	-0.1179E+00	0.2756E+00	0.3882E+00	-0.1910E-01	-0.8855E-02	0.2518E-01
9003	-0.1015E+01	0.2747E+00	-0.2851E+00	-0.1338E-01	-0.5183E-02	0.1312E-01
9004	-0.8241E+00	0.2734E+00	-0.4420E+00	0.5183E-02	-0.1511E-02	-0.2045E-01
9	-0.1029E+00	0.2717E+00	-0.8569E-01	0.8639E-02	0.2161E-02	-0.4782E-02
10	-0.1025E+00	0.2713E+00	-0.3810E-01	0.5866E-02	0.2797E-02	0.3866E-02
9005	-0.5714E+00	0.2690E+00	-0.4910E-01	-0.4387E-02	0.5916E-02	0.1813E-01
9006	-0.9073E+00	0.2661E+00	-0.1973E+00	-0.3322E-02	0.9034E-02	0.6697E-04
11	-0.6013E+00	0.2634E+00	-0.2008E+00	0.3253E-02	0.1215E-01	-0.1546E-01
12	-0.4358E+00	0.2623E+00	-0.1534E+00	0.5337E-02	0.1323E-01	-0.1414E-01
9007	-0.4101E+00	0.2553E+00	-0.1499E+00	0.5868E-02	0.1339E-01	-0.1261E-01
9008	-0.3934E+00	0.2388E+00	-0.1601E+00	0.6270E-02	0.1358E-01	-0.1033E-01
13	-0.3884E+00	0.2214E+00	-0.1825E+00	0.6609E-02	0.1389E-01	-0.7097E-02
14	-0.3883E+00	0.2047E+00	-0.2211E+00	0.7095E-02	0.1422E-01	-0.3754E-02
15	-0.3880E+00	0.2088E+00	-0.3089E+00	0.8154E-02	0.1520E-01	0.7032E-02
16	-0.3872E+00	0.4822E+00	-0.5501E+00	0.1062E-01	0.2039E-01	0.2817E-01
17	-0.3624E+00	0.5508E+00	-0.6079E+00	0.1099E-01	0.2343E-01	0.3168E-01
18	-0.2386E+00	0.6559E+00	-0.7310E+00	0.1148E-01	0.2645E-01	0.3511E-01
19	-0.4581E-01	0.7689E+00	-0.9228E+00	0.2542E-01	0.2833E-01	0.3516E-01
20	0.4698E+00	0.4019E+00	-0.1435E+01	0.7398E-01	0.2648E-01	0.1436E-01
21	0.5241E+00	0.2048E+00	-0.1168E+01	0.9737E-01	0.2454E-01	-0.1679E-02
9009	0.1050E+01	0.2061E+00	0.2777E+01	0.5848E-01	0.1852E-01	-0.9144E-02
9010	0.7636E+00	0.2070E+00	0.2198E+01	-0.8090E-01	0.1249E-01	0.2090E-01
22	0.6690E-01	0.2074E+00	-0.1776E+01	-0.7339E-01	0.6470E-02	-0.1701E-02
23	0.1465E+00	0.2075E+00	-0.2271E+01	-0.4129E-01	0.5194E-02	-0.1822E-01
24	0.6700E+00	0.2075E+00	-0.2359E+01	0.2475E-01	0.2734E-02	-0.4029E-01
9011	0.1824E+01	0.2072E+00	-0.6237E-01	0.9414E-01	-0.2281E-02	-0.1380E-01
9012	0.1219E+01	0.2066E+00	0.2545E+01	0.4035E-01	-0.7297E-02	0.4685E-01
25	-0.7248E+00	0.2058E+00	0.2066E+01	-0.6534E-01	-0.1231E-01	0.5430E-01
26	-0.1185E+01	0.2055E+00	0.1326E+01	-0.8847E-01	-0.1374E-01	0.4137E-01
9013	-0.1531E+01	0.2042E+00	-0.2106E+01	-0.7634E-01	-0.1906E-01	-0.2493E-01
9014	0.1773E+00	0.2026E+00	-0.2981E+01	0.3087E-01	-0.2438E-01	-0.5619E-01
27	0.1523E+01	0.2006E+00	-0.8387E+00	0.5865E-01	-0.2970E-01	-0.6598E-02
28	0.1393E+01	0.1998E+00	-0.2767E+00	0.1959E-01	-0.3170E-01	0.2632E-01
29	0.4583E+00	0.1985E+00	-0.5475E+00	-0.3705E-01	-0.3870E-01	0.6166E-01
9015	-0.1761E+01	0.1956E+00	-0.2120E+01	-0.2215E-01	-0.4031E-01	0.3468E-01
9016	-0.1396E+01	0.1924E+00	-0.1466E+01	0.5286E-01	-0.4592E-01	-0.5243E-01
30	0.1337E+01	0.1889E+00	0.7995E+00	0.4386E-01	-0.5153E-01	-0.7279E-01
31	0.1410E+01	0.1888E+00	0.8426E+00	0.4166E-01	-0.5168E-01	-0.7167E-01
32	0.1535E+01	0.1515E+00	0.9385E+00	0.2877E-01	-0.5284E-01	-0.6542E-01
35	0.1462E+01	0.9424E-01	0.9653E+00	0.1375E-01	-0.5457E-01	-0.6001E-01
37	0.9910E+00	0.9255E-01	0.9657E+00	-0.1586E-01	-0.5766E-01	-0.4569E-01
9017	-0.8099E+00	0.1830E+01	0.9654E+00	-0.6187E-01	-0.4328E-01	0.9286E-02
9018	-0.1412E+01	0.2817E+01	0.9637E+00	0.1374E-01	0.9014E-02	0.6426E-01
38	-0.4402E+00	0.9416E+00	0.9608E+00	0.8920E-01	0.4100E-01	0.1192E+00
39	-0.1918E-01	-0.3322E-01	0.9596E+00	0.9606E-01	0.3835E-01	0.1368E+00
9019	0.8681E+00	-0.2745E+01	0.9536E+00	0.4322E-01	0.1180E-01	0.1947E+00
40	0.9540E+00	-0.2633E+01	0.9462E+00	-0.4066E-01	0.4979E-03	0.2525E+00
41	0.1432E+01	-0.1425E+01	0.9388E+00	-0.1473E-01	0.4463E-01	0.3025E+00
43	0.1640E+01	-0.2676E+00	0.6984E+00	0.2050E-01	0.7206E-01	0.3076E+00
44	0.1640E+01	0.1771E+00	0.5908E+00	0.2846E-01	0.7442E-01	0.3081E+00
45	0.1639E+01	0.1356E+01	0.2946E+00	0.4553E-01	0.7704E-01	0.3059E+00
9020	0.1633E+01	0.8242E+01	-0.1742E+01	0.3072E+00	0.5966E-01	0.1278E+00
46	0.1625E+01	0.7456E+01	-0.3084E+01	0.3648E+00	0.3945E-01	-0.1796E+00
47	0.1624E+01	0.6869E+01	-0.3201E+01	0.3814E+00	0.3931E-01	-0.2101E+00
91	0.2251E+01	0.6869E+01	-0.2045E+01	0.3897E+00	0.2911E-01	-0.2066E+00
92	0.4464E+01	0.6874E+01	0.2477E+01	0.3902E+00	-0.4425E-01	-0.1906E+00
93	0.4895E+01	0.5558E+01	0.3670E+01	0.3262E+00	-0.8828E-01	-0.1831E+00
94	0.4584E+01	0.4535E+01	0.3872E+01	0.3090E+00	-0.1011E+00	-0.1830E+00
95	0.4033E+01	0.3047E+01	0.3875E+01	0.2901E+00	-0.1161E+00	-0.1829E+00
96	0.3423E+01	0.1631E+01	0.3876E+01	0.2768E+00	-0.1199E+00	-0.1828E+00
97	0.3392E+01	0.1562E+01	0.3876E+01	0.2762E+00	-0.1197E+00	-0.1826E+00

98	0.2287E+01	0.5619E+00	0.2899E+01	0.2562E+00	-0.9585E-01	-0.1707E+00
100	0.1542E+01	0.5621E+00	0.1757E+01	0.2551E+00	-0.7544E-01	-0.1525E+00
101	0.1105E+01	0.5623E+00	0.9916E+00	0.2579E+00	-0.6184E-01	-0.1325E+00
102	0.6534E+00	0.5632E+00	0.4595E-01	0.2466E+00	-0.4889E-01	-0.1002E+00
113	0.7700E+00	-0.1177E+01	0.9936E+00	0.3327E+00	-0.4768E-01	-0.1186E+00
114	0.5892E+00	-0.2703E+01	0.9955E+00	0.3773E+00	-0.3865E-01	-0.1057E+00
115	0.4384E+00	-0.4372E+01	0.9970E+00	0.4042E+00	-0.3260E-01	-0.9278E-01
116	0.2589E+00	-0.6982E+01	0.9992E+00	0.4266E+00	-0.2533E-01	-0.7375E-01
118	0.3551E+00	-0.7950E+01	0.1973E+01	0.4332E+00	-0.2137E-01	-0.6155E-01
9023	0.1049E+01	-0.7948E+01	0.1084E+02	0.7192E-01	0.1261E-01	0.1549E-01
120	-0.1703E+00	-0.7935E+01	0.4744E+01	-0.4316E+00	0.4659E-01	0.5431E-01
122	-0.1791E+00	-0.6884E+01	0.3724E+01	-0.4789E+00	0.5210E-01	0.5186E-01
124	0.5228E-01	-0.4825E+01	0.3723E+01	-0.4807E+00	0.5779E-01	0.4931E-01
125	0.6877E+00	-0.5769E+00	0.3716E+01	-0.3012E+00	0.6381E-01	0.4322E-01
127	0.9220E+00	-0.5931E-01	0.4097E+01	-0.9320E-01	0.6039E-01	0.3969E-01
129	0.1357E+01	-0.3502E-01	0.4563E+00	0.1585E+00	0.3561E-01	0.1839E-01
9024	0.6073E+00	-0.1751E-01	-0.5166E+00	-0.1964E-01	0.1780E-01	-0.4983E-01
130	0.3575E-07	-0.3629E-06	-0.8176E-07	-0.9015E-08	0.1011E-08	-0.6987E-08
48	0.1624E+01	0.6176E+01	-0.3347E+01	0.3702E+00	0.5168E-01	-0.2431E+00
49	0.1622E+01	0.4840E+01	-0.3644E+01	0.3514E+00	0.5908E-01	-0.2805E+00
50	0.1621E+01	0.3172E+01	-0.3938E+01	0.3327E+00	0.5450E-01	-0.2898E+00
51	0.1620E+01	0.2932E+01	-0.4019E+01	0.3271E+00	0.5166E-01	-0.2859E+00
52	0.1618E+01	0.1422E+01	-0.4270E+01	0.3065E+00	0.3613E-01	-0.2451E+00
53	0.1607E+01	-0.1625E+01	-0.4012E+01	0.2157E+00	-0.6164E-01	-0.2520E-01
54	0.1589E+01	-0.7420E-01	-0.1961E+00	0.8190E-01	-0.1150E+00	0.5417E-01
55	0.1588E+01	-0.3346E-01	-0.1005E+00	0.7909E-01	-0.1138E+00	0.5226E-01
56	0.1203E+01	-0.1190E+00	0.3040E+00	0.5950E-01	-0.4750E-01	0.2485E-01
57	0.1011E+01	-0.2461E+00	0.3039E+00	0.5593E-01	-0.7621E-01	0.1419E-01
58	0.8734E+00	-0.3536E+00	0.3039E+00	0.5391E-01	-0.6525E-01	0.4720E-02
59	0.7036E+00	-0.5098E+00	0.3037E+00	0.5295E-01	-0.5167E-01	-0.9491E-02
103	0.9031E+00	-0.3518E+00	0.1286E+00	0.6414E-01	-0.3733E-01	-0.1094E+00
104	0.7020E+00	0.1579E+01	-0.2573E-01	0.1097E+00	-0.2672E-02	-0.2251E+00
105	0.7015E+00	0.2180E+01	-0.2794E-01	0.1244E+00	0.2472E-03	-0.1668E+00
106	0.7008E+00	0.2565E+01	-0.2783E-01	0.1391E+00	-0.1261E-02	-0.9121E-01
107	0.6975E+00	0.2599E+01	-0.2633E+00	0.1955E+00	-0.5197E-01	0.3214E-01
109	0.6033E+00	0.2253E+01	-0.3508E+00	0.2027E+00	-0.6454E-01	0.1552E-01
111	0.4096E+00	0.1594E+01	-0.3506E+00	0.1798E+00	-0.3751E-01	-0.1755E-01
112	0.3736E+00	0.1352E+01	-0.3506E+00	0.1583E+00	-0.8483E-02	-0.3143E-01
60	0.5691E+00	-0.6672E+00	0.3036E+00	0.5414E-01	-0.4161E-01	-0.2159E-01
61	0.6589E+00	-0.8311E+00	0.3035E+00	0.5741E-01	-0.3550E-01	-0.3369E-01
62	0.4505E+00	-0.8453E+00	0.3035E+00	0.5777E-01	-0.3514E-01	-0.3470E-01
63	0.3370E+00	-0.8925E+00	0.1921E+00	0.7376E-01	-0.2902E-01	-0.5790E-01
64	0.3404E+00	-0.1672E+00	-0.1051E+00	0.1080E+00	-0.2327E-01	-0.6686E-01
65	0.3419E+00	0.1601E+00	-0.2107E+00	0.1236E+00	-0.1818E-01	-0.6061E-01
131	0.5370E+00	0.1602E+00	0.1916E+00	0.1245E+00	-0.1818E-01	-0.6134E-01
132	0.7414E+00	0.1603E+00	0.6004E+00	0.1253E+00	-0.1818E-01	-0.6240E-01
66	0.3449E+00	0.4493E+00	-0.2871E+00	0.1368E+00	-0.1256E-01	-0.5251E-01
67	0.3473E+00	0.6542E+00	-0.3307E+00	0.1481E+00	-0.6171E-02	-0.4189E-01
68	0.3491E+00	0.7683E+00	-0.3505E+00	0.1560E+00	-0.5304E-02	-0.3246E-01
69	0.3507E+00	0.8517E+00	-0.3602E+00	0.1628E+00	-0.1437E-02	-0.2185E-01
70	0.3515E+00	0.8923E+00	-0.3606E+00	0.1678E+00	0.1271E-02	-0.1310E-01
71	0.3546E+00	0.9073E+00	-0.3391E+00	0.1791E+00	0.6660E-02	0.8661E-02
133	0.3242E+00	0.9077E+00	0.2441E+00	0.1803E+00	0.6660E-02	0.8648E-02
134	0.2981E+00	0.9084E+00	0.8362E+00	0.1815E+00	0.6660E-02	0.8222E-02
72	0.3582E+00	0.8139E+00	-0.2914E+00	0.1865E+00	0.1002E-01	0.2525E-01
73	0.3742E+00	0.1200E+00	-0.2153E+00	0.2197E+00	-0.1505E-01	0.1030E-01
74	0.3759E+00	0.1044E+00	-0.2618E+00	0.2234E+00	-0.2124E-01	-0.5403E-03
75	0.3794E+00	0.1662E+00	-0.1974E+00	0.2309E+00	-0.3166E-01	-0.2792E-01
76	0.3828E+00	0.3840E+00	-0.5786E+00	0.2383E+00	-0.3996E-01	-0.6307E-01
77	0.3845E+00	0.5636E+00	-0.6837E+00	0.2420E+00	-0.4350E-01	-0.8361E-01
78	0.3847E+00	0.8691E+00	-0.8476E+00	0.2329E+00	-0.3790E-01	-0.6880E-01
9021	0.3862E+00	0.1417E+01	-0.1302E+01	0.1675E+00	0.7235E-02	0.2698E-01
79	0.3872E+00	-0.2510E+00	-0.5867E+00	0.1022E+00	0.3473E-02	0.7691E-01
80	0.3875E+00	-0.1103E+01	-0.2168E+00	0.7736E-01	0.3314E-01	0.7765E-01
81	0.3876E+00	-0.1311E+01	-0.1291E+00	0.7122E-01	0.3144E-01	0.7644E-01
82	0.2915E+00	-0.1360E+01	-0.2239E-01	0.5651E-01	0.2200E-01	0.7194E-01
9022	-0.2360E-01	-0.3484E+00	-0.2086E-01	0.2540E-01	0.4836E-02	0.4668E-01
83	-0.6142E-01	0.4105E-01	-0.1931E-01	0.6344E-02	0.4614E-03	0.2142E-01
84	-0.6256E-01	0.5413E-01	-0.1917E-01	0.4985E-02	0.7171E-03	0.1912E-01
85	-0.6362E-01	0.6158E-01	-0.1906E-01	0.4056E-02	0.9711E-03	0.1748E-01
86	-0.2419E-01	0.2413E-01	-0.1281E-01	-0.3772E-03	0.2109E-02	0.8064E-02
87	-0.1487E-07	0.8903E-08	-0.5099E-07	-0.1923E-08	0.3032E-08	0.7386E-08

COUPLED MODE	FREQUENCY (HZ)	DAMPING RATIO (%)
1	0.13145E+01	0.50000E+01
2	0.15867E+01	0.42150E+01
3	0.28009E+01	0.26665E+01
4	0.34301E+01	0.23447E+01
5	0.36006E+01	0.22825E+01
6	0.38984E+01	0.21920E+01
7	0.42591E+01	0.21076E+01
8	0.56890E+01	0.19441E+01
9	0.7a677E+01	0.19400E+01
10	0.80710E+01	0.19651E+01
11	0.83071E+01	0.19775E+01
12	0.10178E+02	0.21110E+01
13	0.10627E+02	0.21512E+01
14	0.12036E+02	0.22875E+01
15	0.13130E+02	0.24044E+01
16	0.13439E+02	0.24387E+01
17	0.14793E+02	0.25939E+01
18	0.16091E+02	0.27495E+01
19	0.16598E+02	0.28118E+01
20	0.17960E+02	0.29824E+01
21	0.18256E+02	0.30201E+01
22	0.19641E+02	0.31985E+01
23	0.20890E+02	0.33622E+01
24	0.22170E+02	0.35322E+01

25	0.23057E+02	0.36512E+01
26	0.23492E+02	0.37098E+01
27	0.23625E+02	0.37279E+01
28	0.24181E+02	0.38031E+01
29	0.25320E+02	0.39581E+01
30	0.26236E+02	0.40837E+01
31	0.26733E+02	0.41519E+01
32	0.26886E+02	0.41730E+01
33	0.27543E+02	0.42637E+01
34	0.32918E+02	0.50000E+01

INTERPOLATED SPECTRAL ACCELERATIONS FOR CORRESPONDING FREQUENCIES & DAMPING RATIOS

FREQUENCY (HZ)	DAMPING RATIO (%)	SPECTRAL ACCELERATIONS SAD	SAV
0.13145E+01	0.50000E+01	0.5745E+00	0.6519E+00
0.15867E+01	0.42150E+01	0.8108E+00	0.8108E+00
0.28009E+01	0.26665E+01	0.7563E+00	0.7921E+00
0.34301E+01	0.23447E+01	0.8093E+00	0.8498E+00
0.36006E+01	0.22825E+01	0.8973E+00	0.9412E+00
0.38984E+01	0.21920E+01	0.1182E+01	0.1236E+01
0.42591E+01	0.21076E+01	0.9319E+00	0.9700E+00
0.56890E+01	0.19441E+01	0.9336E+00	0.9445E+00
0.74677E+01	0.19400E+01	0.1100E+01	0.1060E+01
0.80710E+01	0.19651E+01	0.8610E+00	0.8132E+00
0.83071E+01	0.19775E+01	0.7384E+00	0.6916E+00
0.10178E+02	0.21110E+01	0.7469E+00	0.6514E+00
0.10627E+02	0.21512E+01	0.6236E+00	0.5335E+00
0.12036E+02	0.22875E+01	0.6715E+00	0.5384E+00
0.13130E+02	0.24044E+01	0.5529E+00	0.4195E+00
0.13439E+02	0.24387E+01	0.4971E+00	0.3711E+00
0.14793E+02	0.25939E+01	0.5556E+00	0.3843E+00
0.16091E+02	0.27495E+01	0.6278E+00	0.4006E+00
0.16598E+02	0.28118E+01	0.5800E+00	0.3579E+00
0.17960E+02	0.29824E+01	0.5173E+00	0.2897E+00
0.18256E+02	0.30201E+01	0.4911E+00	0.2688E+00
0.19641E+02	0.31985E+01	0.5075E+00	0.2676E+00
0.20890E+02	0.33622E+01	0.4397E+00	0.1904E+00
0.22170E+02	0.35322E+01	0.3965E+00	0.1485E+00
0.23057E+02	0.36512E+01	0.3843E+00	0.1275E+00
0.23492E+02	0.37098E+01	0.3827E+00	0.1187E+00
0.23625E+02	0.37279E+01	0.3845E+00	0.1166E+00
0.24181E+02	0.38031E+01	0.3783E+00	0.1036E+00
0.25320E+02	0.39581E+01	0.3830E+00	0.8859E-01
0.26236E+02	0.40837E+01	0.3706E+00	0.8250E-01
0.26733E+02	0.41519E+01	0.3656E+00	0.7976E-01
0.26886E+02	0.41730E+01	0.3616E+00	0.7842E-01
0.27543E+02	0.42637E+01	0.3579E+00	0.7562E-01
0.32918E+02	0.50000E+01	0.3570E+00	0.6221E-01

COMBINED VALUES OF COUPLED MODAL DISPLACEMENTS

DISPLACEMENTS AT PRIMARY SYSTEM CONNETING DOF

DOF #	DISPLACEMENT
3041	0.6709E-02
3042	0.0000E+00
3043	0.5926E-05
3061	0.1711E-01
3063	0.1991E-04
3072	0.0000E+00
3081	0.2843E-01
3103	0.7169E-04
3121	0.5853E-01
3122	0.0000E+00
3123	0.9354E-04
3091	0.3325E-01
3092	0.0000E+00
3093	0.4442E-04

DISPLACEMENTS AT SECONDARY SYSTEM DOF

NODE	DX	DY	DZ	ROT-X	ROT-Y	ROT-Z
1	0.6709E-02	0.3502E-09	0.5926E-05	0.1813E-09	0.4291E-09	0.1941E-09
2	0.6725E-02	0.7758E-03	0.1009E-02	0.1887E-03	0.4060E-03	0.2074E-03
3	0.8072E-02	0.7639E-02	0.1276E-01	0.6263E-03	0.1168E-02	0.6246E-03

4	0.8085E-02	0.3170E-01	0.5625E-01	0.1392E-02	0.2097E-02	0.1213E-02
5	0.8090E-02	0.4939E-01	0.8604E-01	0.1778E-02	0.2550E-02	0.1497E-02
9001	0.8183E-02	0.5219E-01	0.9074E-01	0.1823E-02	0.2682E-02	0.1576E-02
9002	0.8868E-02	0.5432E-01	0.9449E-01	0.1850E-02	0.2803E-02	0.1651E-02
6	0.1065E-01	0.5513E-01	0.9626E-01	0.1911E-02	0.2913E-02	0.1721E-02
7	0.1361E-01	0.5513E-01	0.9703E-01	0.1947E-02	0.3042E-02	0.1759E-02
9003	0.7605E-01	0.5513E-01	0.1275E+00	0.1613E-02	0.5550E-02	0.1418E-02
9004	0.9363E-01	0.5514E-01	0.1326E+00	0.1152E-02	0.8326E-02	0.7894E-03
9	0.1899E-01	0.5514E-01	0.3071E-01	0.4869E-02	0.1117E-01	0.4863E-02
10	0.4393E-01	0.5514E-01	0.3065E-02	0.5728E-02	0.1167E-01	0.5682E-02
9005	0.2646E+00	0.5514E-01	0.2392E+00	0.9011E-02	0.1411E-01	0.8210E-02
9006	0.5295E+00	0.5513E-01	0.5443E+00	0.1015E-01	0.1657E-01	0.8383E-02
11	0.7662E+00	0.5513E-01	0.8521E+00	0.9196E-02	0.1902E-01	0.6538E-02
12	0.8300E+00	0.5513E-01	0.9469E+00	0.8407E-02	0.1987E-01	0.5562E-02
9007	0.8397E+00	0.5247E-01	0.9687E+00	0.8117E-02	0.2001E-01	0.5222E-02
9008	0.8463E+00	0.4558E-01	0.9972E+00	0.7864E-02	0.2016E-01	0.4890E-02
13	0.8485E+00	0.3673E-01	0.1026E+01	0.7636E-02	0.2034E-01	0.4575E-02
14	0.8485E+00	0.2446E-01	0.1064E+01	0.7310E-02	0.2049E-01	0.4350E-02
15	0.8485E+00	0.3409E-02	0.1154E+01	0.6608E-02	0.2077E-01	0.3926E-02
16	0.8485E+00	0.5103E-01	0.1386E+01	0.5005E-02	0.2122E-01	0.3263E-02
17	0.8478E+00	0.5541E-01	0.1433E+01	0.4648E-02	0.2134E-01	0.3124E-02
18	0.8528E+00	0.5359E-01	0.1522E+01	0.4066E-02	0.2146E-01	0.2868E-02
19	0.8822E+00	0.4938E-01	0.1651E+01	0.3444E-02	0.2158E-01	0.2655E-02
20	0.1065E+01	0.1437E-01	0.2003E+01	0.2861E-02	0.2157E-01	0.3270E-02
21	0.1089E+01	0.6534E-02	0.2061E+01	0.3057E-02	0.2144E-01	0.3916E-02
9009	0.8759E+00	0.6555E-02	0.2131E+01	0.3039E-02	0.2094E-01	0.7296E-02
9010	0.5397E+00	0.6577E-02	0.2158E+01	0.2419E-02	0.2053E-01	0.9867E-02
22	0.1091E+00	0.6601E-02	0.2094E+01	0.3598E-02	0.2022E-01	0.1198E-01
23	0.3033E-01	0.6606E-02	0.2065E+01	0.4119E-02	0.2016E-01	0.1254E-01
24	0.2172E+00	0.6616E-02	0.1994E+01	0.5222E-02	0.2007E-01	0.1367E-01
9011	0.6998E+00	0.6638E-02	0.1788E+01	0.7480E-02	0.1995E-01	0.1521E-01
9012	0.1207E+01	0.6660E-02	0.1507E+01	0.9356E-02	0.1989E-01	0.1527E-01
25	0.1689E+01	0.6684E-02	0.1174E+01	0.1051E-01	0.1991E-01	0.1397E-01
26	0.1615E+01	0.6691E-02	0.1074E+01	0.1068E-01	0.1993E-01	0.1340E-01
9013	0.2223E+01	0.6717E-02	0.6949E+00	0.1052E-01	0.2005E-01	0.1080E-01
9014	0.2510E+01	0.6745E-02	0.3445E+00	0.9023E-02	0.2025E-01	0.8005E-02
27	0.2658E+01	0.6774E-02	0.7280E-01	0.6063E-02	0.2053E-01	0.6351E-02
28	0.2677E+01	0.6785E-02	0.2082E-02	0.4569E-02	0.2066E-01	0.6400E-02
29	0.2670E+01	0.6802E-02	0.6666E-01	0.2393E-02	0.2046E-01	0.7179E-02
9015	0.2563E+01	0.6834E-02	0.9863E-01	0.4262E-03	0.2131E-01	0.9435E-02
9016	0.2383E+01	0.6868E-02	0.5827E-01	0.1526E-02	0.2184E-01	0.1099E-01
30	0.2202E+01	0.6903E-02	0.1782E-01	0.9941E-03	0.2243E-01	0.1090E-01
31	0.2197E+01	0.6904E-02	0.1775E-01	0.9594E-03	0.2245E-01	0.1087E-01
32	0.2162E+01	0.6077E-02	0.1790E-01	0.7780E-03	0.2250E-01	0.1072E-01
35	0.2098E+01	0.4378E-02	0.1808E-01	0.6303E-03	0.2254E-01	0.1058E-01
37	0.1908E+01	0.1079E-02	0.1804E-01	0.5088E-03	0.2254E-01	0.1021E-01
9017	0.1195E+01	0.1296E-01	0.1808E-01	0.2812E-03	0.2117E-01	0.8795E-02
9018	0.5661E+00	0.1893E-01	0.1807E-01	0.1373E-03	0.1733E-01	0.7380E-02
38	0.1154E+00	0.2005E-01	0.1807E-01	0.1104E-03	0.1081E-01	0.5965E-02
39	0.5924E-01	0.1962E-01	0.1807E-01	0.1204E-03	0.8143E-02	0.5511E-02
9019	0.1568E+00	0.1606E-01	0.1806E-01	0.1675E-03	0.8742E-03	0.4022E-02

40	0.1228E+00	0.1022E-01	0.1805E-01	0.2116E-03	0.2657E-02	0.2534E-02
41	0.7122E-01	0.5789E-02	0.1805E-01	0.2485E-03	0.2529E-02	0.1251E-02
43	0.6934E-01	0.1756E-02	0.1014E-01	0.2661E-03	0.1856E-02	0.9405E-03
44	0.6937E-01	0.4813E-03	0.7557E-01	0.2702E-03	0.1759E-02	0.8923E-03
45	0.6937E-01	0.2751E-02	0.1662E-02	0.2816E-03	0.1502E-02	0.7682E-03
9020	0.6932E-01	0.1347E-01	0.1878E-01	0.3929E-03	0.1162E-03	0.6534E-04
46	0.6927E-01	0.8585E-02	0.1372E-01	0.5279E-03	0.3284E-03	0.3460E-03
47	0.6926E-01	0.7596E-02	0.1302E-01	0.5428E-03	0.3116E-03	0.3705E-03
91	0.6974E-01	0.7596E-02	0.1178E-01	0.5471E-03	0.2978E-03	0.3869E-03
92	0.7290E-01	0.7594E-02	0.8464E-02	0.5224E-03	0.2326E-03	0.4976E-03
93	0.7493E-01	0.6919E-02	0.8374E-02	0.4458E-03	0.2359E-03	0.5597E-03
94	0.7541E-01	0.6675E-02	0.8372E-02	0.4237E-03	0.2319E-03	0.5865E-03
95	0.7607E-01	0.6853E-02	0.8368E-02	0.3926E-03	0.2161E-03	0.6317E-03
96	0.7660E-01	0.7542E-02	0.8365E-02	0.3676E-03	0.1956E-03	0.6808E-03
97	0.7662E-01	0.7586E-02	0.8365E-02	0.3665E-03	0.1946E-03	0.6834E-03
98	0.7468E-01	0.8303E-02	0.7265E-02	0.3507E-03	0.1593E-03	0.7490E-03
100	0.7182E-01	0.8303E-02	0.5837E-02	0.3506E-03	0.1518E-03	0.7670E-03
101	0.6995E-01	0.8304E-02	0.4893E-02	0.3460E-03	0.1520E-03	0.7706E-03
102	0.6766E-01	0.8304E-02	0.3757E-02	0.3485E-03	0.1042E-03	0.7728E-03
113	0.7134E-01	0.9362E-02	0.4893E-02	0.2636E-03	0.3964E-03	0.6617E-03
114	0.7334E-01	0.9956E-02	0.4893E-02	0.1984E-03	0.5379E-03	0.5604E-03
115	0.7576E-01	0.1037E-01	0.4893E-02	0.1449E-03	0.6143E-03	0.4592E-03
116	0.7975E-01	0.1068E-01	0.4892E-02	0.8766E-04	0.6665E-03	0.3111E-03
118	0.8166E-01	0.1070E-01	0.4938E-02	0.5700E-04	0.6683E-03	0.2115E-03
9023	0.7736E-01	0.1070E-01	0.3475E-02	0.2325E-03	0.6945E-03	0.5174E-03
120	0.5655E-01	0.1069E-01	0.1060E-01	0.4844E-03	0.7257E-03	0.8102E-03
122	0.5644E-01	0.9519E-02	0.1169E-01	0.5412E-03	0.7442E-03	0.7519E-03
124	0.5956E-01	0.7158E-02	0.1169E-01	0.5674E-03	0.7843E-03	0.6829E-03
125	0.6772E-01	0.1283E-02	0.1169E-01	0.5725E-03	0.8244E-03	0.5181E-03
127	0.7053E-01	0.2089E-04	0.1046E-01	0.5379E-03	0.7753E-03	0.4405E-03
129	0.7409E-01	0.1232E-04	0.2765E-03	0.1973E-03	0.4571E-03	0.2501E-03
9024	0.6541E-01	0.6159E-05	0.7847E-03	0.3760E-04	0.2286E-03	0.5715E-03
130	0.5853E-01	0.1347E-09	0.9354E-04	0.1288E-10	0.1298E-10	0.8088E-10
48	0.6925E-01	0.6586E-02	0.1240E-01	0.5402E-03	0.3099E-03	0.3644E-03
49	0.6923E-01	0.4841E-02	0.1144E-01	0.5372E-03	0.3030E-03	0.3678E-03
50	0.6922E-01	0.2989E-02	0.1056E-01	0.5355E-03	0.2920E-03	0.3845E-03
51	0.6921E-01	0.2410E-02	0.1031E-01	0.5353E-03	0.2881E-03	0.3914E-03
52	0.6919E-01	0.3864E-03	0.9488E-02	0.5357E-03	0.2714E-03	0.4223E-03
53	0.6908E-01	0.1233E-01	0.6851E-02	0.5580E-03	0.1813E-03	0.6106E-03
54	0.6891E-01	0.3766E-01	0.5611E-03	0.6441E-03	0.3141E-03	0.7964E-03
55	0.6890E-01	0.3825E-01	0.4942E-03	0.6464E-03	0.3220E-03	0.7984E-03
56	0.6763E-01	0.4032E-01	0.1458E-02	0.6626E-03	0.3492E-03	0.8246E-03
57	0.6694E-01	0.3983E-01	0.1458E-02	0.6660E-03	0.3028E-03	0.8342E-03
58	0.6659E-01	0.3943E-01	0.1458E-02	0.6678E-03	0.2531E-03	0.8430E-03
59	0.6620E-01	0.3890E-01	0.1457E-02	0.6677E-03	0.1990E-03	0.8563E-03
103	0.6621E-01	0.3601E-01	0.8726E-03	0.6570E-03	0.1356E-03	0.8126E-03
104	0.6623E-01	0.2942E-01	0.6758E-03	0.6143E-03	0.5223E-04	0.8593E-03
105	0.6623E-01	0.2726E-01	0.7828E-03	0.6009E-03	0.5432E-04	0.9396E-03
106	0.6623E-01	0.2505E-01	0.9020E-03	0.5877E-03	0.4828E-04	0.1019E-02
107	0.6623E-01	0.1832E-01	0.1357E-02	0.5393E-03	0.2188E-03	0.1017E-02

109	0.6611E-01	0.1825E-01	0.1578E-02	0.5320E-03	0.2698E-03	0.9482E-03
111	0.6587E-01	0.1924E-01	0.1578E-02	0.4905E-03	0.1536E-03	0.8307E-03
112	0.6582E-01	0.1967E-01	0.1578E-02	0.4651E-03	0.3254E-04	0.7834E-03
60	0.6597E-01	0.3847E-01	0.1457E-02	0.6639E-03	0.1651E-03	0.8711E-03
61	0.6583E-01	0.3815E-01	0.1456E-02	0.6558E-03	0.1444E-03	0.8861E-03
62	0.6582E-01	0.3812E-01	0.1456E-02	0.6550E-03	0.1432E-03	0.8873E-03
63	0.6570E-01	0.3512E-01	0.1142E-02	0.6166E-03	0.1138E-03	0.9140E-03
64	0.6571E-01	0.2776E-01	0.9853E-03	0.5432E-03	0.9286E-04	0.9141E-03
65	0.6572E-01	0.2505E-01	0.1227E-02	0.5115E-03	0.7054E-04	0.8961E-03
131	0.6395E-01	0.2505E-01	0.6041E-03	0.5109E-03	0.7054E-04	0.8892E-03
132	0.6238E-01	0.2505E-01	0.2179E-02	0.5112E-03	0.7054E-04	0.8810E-03
66	0.6571E-01	0.2288E-01	0.1429E-02	0.4909E-03	0.4596E-04	0.8637E-03
67	0.6575E-01	0.2153E-01	0.1537E-02	0.4741E-03	0.2938E-04	0.8196E-03
68	0.6575E-01	0.2084E-01	0.1578E-02	0.4628E-03	0.2084E-04	0.7799E-03
69	0.6576E-01	0.2035E-01	0.1586E-02	0.4509E-03	0.1379E-04	0.7330E-03
70	0.6577E-01	0.2008E-01	0.1569E-02	0.4423E-03	0.1561E-04	0.6940E-03
71	0.6578E-01	0.1968E-01	0.1467E-02	0.4343E-03	0.2907E-04	0.5993E-03
133	0.6477E-01	0.1968E-01	0.2269E-03	0.4246E-03	0.2907E-04	0.5943E-03
134	0.6394E-01	0.1968E-01	0.1329E-02	0.4267E-03	0.2907E-04	0.5871E-03
72	0.6580E-01	0.1928E-01	0.1294E-02	0.4059E-03	0.4371E-04	0.5042E-03
73	0.6590E-01	0.1402E-01	0.1093E-02	0.3514E-03	0.1268E-03	0.5263E-03
74	0.6591E-01	0.1302E-01	0.1394E-02	0.3487E-03	0.1362E-03	0.5644E-03
75	0.6593E-01	0.1081E-01	0.2068E-02	0.3456E-03	0.1368E-03	0.6459E-03
76	0.6594E-01	0.8978E-02	0.2696E-02	0.3457E-03	0.1142E-03	0.7278E-03
77	0.6595E-01	0.8304E-02	0.2948E-02	0.3459E-03	0.9661E-04	0.7671E-03
78	0.6595E-01	0.8013E-02	0.3255E-02	0.3397E-03	0.7089E-04	0.7996E-03
9021	0.6598E-01	0.2674E-01	0.4524E-02	0.4939E-03	0.1411E-03	0.9302E-03
79	0.6599E-01	0.5083E-01	0.5574E-02	0.8126E-03	0.9093E-04	0.8007E-03
80	0.6599E-01	0.5875E-01	0.4714E-02	0.9455E-03	0.1684E-03	0.7101E-03
81	0.6599E-01	0.6057E-01	0.4324E-02	0.9788E-03	0.2000E-03	0.6887E-03
82	0.6490E-01	0.5908E-01	0.3572E-02	0.1071E-02	0.3478E-03	0.6129E-03
9022	0.5232E-01	0.3025E-01	0.3577E-02	0.1117E-02	0.5958E-03	0.3841E-03
83	0.3754E-01	0.5425E-02	0.3581E-02	0.7314E-03	0.4771E-03	0.1596E-03
84	0.3647E-01	0.3789E-02	0.3582E-02	0.6709E-03	0.4416E-03	0.1401E-03
85	0.3575E-01	0.2711E-02	0.3582E-02	0.6250E-03	0.4131E-03	0.1265E-03
86	0.3344E-01	0.1781E-03	0.1100E-02	0.2809E-03	0.1832E-03	0.5731E-04
87	0.3325E-01	0.5392E-09	0.4442E-04	0.2120E-09	0.1426E-09	0.5892E-10

COMBINED VALUES OF COUPLED MEMBER FORCES

NODE	FX	FY	FZ	MX	MY	MZ
1	0.9816E-01	0.3502E-01	0.9375E-01	0.1510E+00	0.3575E+00	0.1617E+00
2	0.9816E-01	0.3502E-01	0.9375E-01	0.1584E+00	0.3148E+00	0.1536E+00
2	0.9726E-01	0.3501E-01	0.9374E-01	0.1384E+00	0.3148E+00	0.1536E+00
3	0.9726E-01	0.3501E-01	0.9374E-01	0.1231E+00	0.2413E+00	0.1352E+00
3	0.9589E-01	0.3493E-01	0.9343E-01	0.1231E+00	0.2413E+00	0.1352E+00
4	0.9589E-01	0.3493E-01	0.9343E-01	0.1231E+00	0.2543E+00	0.1327E+00
4	0.9499E-01	0.3479E-01	0.9230E-01	0.1231E+00	0.2543E+00	0.1327E+00
5	0.9499E-01	0.3479E-01	0.9230E-01	0.1231E+00	0.3169E+00	0.1484E+00
5	0.9474E-01	0.3479E-01	0.9175E-01	0.1231E+00	0.3169E+00	0.1484E+00
9001	0.9474E-01	0.3479E-01	0.9175E-01	0.1195E+00	0.3273E+00	0.1475E+00

9001	0.9469E-01	0.3480E-01	0.9161E-01	0.1195E+00	0.3273E+00	0.1475E+00
9002	0.9469E-01	0.3480E-01	0.9161E-01	0.1096E+00	0.3351E+00	0.1394E+00
9002	0.9463E-01	0.3481E-01	0.9147E-01	0.1096E+00	0.3351E+00	0.1394E+00
6	0.9463E-01	0.3481E-01	0.9147E-01	0.9622E-01	0.3380E+00	0.1264E+00
6	0.9457E-01	0.3482E-01	0.9132E-01	0.9622E-01	0.3380E+00	0.1264E+00
7	0.9457E-01	0.3482E-01	0.9132E-01	0.8061E-01	0.3380E+00	0.1099E+00
7	0.9409E-01	0.3500E-01	0.9018E-01	0.8061E-01	0.3380E+00	0.1099E+00
9003	0.9409E-01	0.3500E-01	0.9018E-01	0.2057E+00	0.3380E+00	0.1934E+00
9003	0.9298E-01	0.3565E-01	0.8839E-01	0.2057E+00	0.3380E+00	0.1934E+00
9004	0.9298E-01	0.3565E-01	0.8839E-01	0.4730E+00	0.3380E+00	0.4729E+00
9004	0.9757E-01	0.3670E-01	0.8717E-01	0.4730E+00	0.3380E+00	0.4729E+00
9	0.9757E-01	0.3670E-01	0.8717E-01	0.7376E+00	0.3380E+00	0.7607E+00
9	0.1783E+00	0.3826E-01	0.8685E-01	0.7376E+00	0.3380E+00	0.7607E+00
10	0.1783E+00	0.3826E-01	0.8685E-01	0.7833E+00	0.3380E+00	0.6675E+00
10	0.1697E+00	0.4005E-01	0.1496E+00	0.7833E+00	0.3380E+00	0.6675E+00
9005	0.1697E+00	0.4005E-01	0.1496E+00	0.3945E+00	0.3380E+00	0.2355E+00
9005	0.1576E+00	0.4176E-01	0.1469E+00	0.3945E+00	0.3380E+00	0.2355E+00
9006	0.1576E+00	0.4176E-01	0.1469E+00	0.3619E-01	0.3380E+00	0.2073E+00
9006	0.1385E+00	0.4364E-01	0.1408E+00	0.3619E-01	0.3380E+00	0.2073E+00
11	0.1385E+00	0.4364E-01	0.1408E+00	0.3576E+00	0.3380E+00	0.5590E+00
11	0.1221E+00	0.4499E-01	0.1349E+00	0.3576E+00	0.3380E+00	0.5590E+00
12	0.1221E+00	0.4499E-01	0.1349E+00	0.4777E+00	0.3380E+00	0.6676E+00
12	0.1172E+00	0.4541E-01	0.1330E+00	0.4777E+00	0.3380E+00	0.6676E+00
9007	0.1172E+00	0.4541E-01	0.1330E+00	0.4984E+00	0.3336E+00	0.6869E+00
9007	0.1157E+00	0.4553E-01	0.1325E+00	0.4984E+00	0.3336E+00	0.6869E+00
9008	0.1157E+00	0.4553E-01	0.1325E+00	0.5135E+00	0.3216E+00	0.7031E+00
9008	0.1142E+00	0.4565E-01	0.1319E+00	0.5135E+00	0.3216E+00	0.7031E+00
13	0.1142E+00	0.4565E-01	0.1319E+00	0.5190E+00	0.3057E+00	0.7122E+00
13	0.1124E+00	0.4576E-01	0.1311E+00	0.5190E+00	0.3057E+00	0.7122E+00
14	0.1124E+00	0.4576E-01	0.1311E+00	0.5190E+00	0.2835E+00	0.7185E+00
14	0.1071E+00	0.4579E-01	0.1288E+00	0.5190E+00	0.2835E+00	0.7185E+00
15	0.1071E+00	0.4579E-01	0.1288E+00	0.5190E+00	0.2414E+00	0.7324E+00
15	0.9086E-01	0.2285E+00	0.1194E+00	0.5190E+00	0.2414E+00	0.7324E+00
16	0.9086E-01	0.2285E+00	0.1194E+00	0.5190E+00	0.1935E+00	0.5767E+00
16	0.8784E-01	0.2284E+00	0.1160E+00	0.5190E+00	0.1935E+00	0.5767E+00
17	0.8784E-01	0.2284E+00	0.1160E+00	0.4983E+00	0.1892E+00	0.5566E+00
17	0.8652E-01	0.2284E+00	0.1140E+00	0.4983E+00	0.1892E+00	0.5566E+00
18	0.8652E-01	0.2284E+00	0.1140E+00	0.4062E+00	0.1717E+00	0.5299E+00
18	0.8514E-01	0.2284E+00	0.1104E+00	0.4062E+00	0.1717E+00	0.5299E+00
19	0.8514E-01	0.2284E+00	0.1104E+00	0.2774E+00	0.1534E+00	0.5190E+00
19	0.8570E-01	0.2283E+00	0.1019E+00	0.2774E+00	0.1534E+00	0.5190E+00
20	0.8570E-01	0.2283E+00	0.1019E+00	0.1097E+00	0.1504E+00	0.6367E+00
20	0.9011E-01	0.2283E+00	0.9257E-01	0.1097E+00	0.1504E+00	0.6367E+00
21	0.9011E-01	0.2283E+00	0.9257E-01	0.1272E+00	0.1550E+00	0.6500E+00
21	0.1013E+00	0.2283E+00	0.7899E-01	0.1272E+00	0.1550E+00	0.6500E+00
9009	0.1013E+00	0.2283E+00	0.7899E-01	0.1792E+00	0.1550E+00	0.4761E+00
9009	0.1200E+00	0.2283E+00	0.5456E-01	0.1792E+00	0.1550E+00	0.4761E+00
9010	0.1200E+00	0.2283E+00	0.5456E-01	0.3507E+00	0.1550E+00	0.4884E+00
9010	0.1342E+00	0.2284E+00	0.2986E-01	0.3507E+00	0.1550E+00	0.4884E+00
22	0.1342E+00	0.2284E+00	0.2986E-01	0.4446E+00	0.1550E+00	0.7725E+00
22	0.1419E+00	0.2284E+00	0.1597E-01	0.4446E+00	0.1550E+00	0.7725E+00

23	0.1419E+00	0.2284E+00	0.1597E-01	0.4541E+00	0.1550E+00	0.8538E+00
23	0.1551E+00	0.2284E+00	0.1103E-01	0.4541E+00	0.1550E+00	0.8538E+00
24	0.1551E+00	0.2284E+00	0.1103E-01	0.4462E+00	0.1550E+00	0.6695E+00
24	0.1456E+00	0.2285E+00	0.2295E-01	0.4462E+00	0.1550E+00	0.6695E+00
9011	0.1456E+00	0.2285E+00	0.2295E-01	0.3901E+00	0.1550E+00	0.3855E+00
9011	0.1253E+00	0.2285E+00	0.3960E-01	0.3901E+00	0.1550E+00	0.3855E+00
9012	0.1253E+00	0.2285E+00	0.3960E-01	0.2869E+00	0.1550E+00	0.3587E+00
9012	0.1009E+00	0.2285E+00	0.5401E-01	0.2869E+00	0.1550E+00	0.3587E+00
25	0.1009E+00	0.2285E+00	0.5401E-01	0.1495E+00	0.1550E+00	0.5009E+00
25	0.8647E-01	0.2286E+00	0.6137E-01	0.1495E+00	0.1550E+00	0.5009E+00
26	0.8647E-01	0.2286E+00	0.6137E-01	0.1103E+00	0.1550E+00	0.5421E+00
26	0.7816E-01	0.2286E+00	0.6866E-01	0.1103E+00	0.1550E+00	0.5421E+00
9013	0.7816E-01	0.2286E+00	0.6866E-01	0.1383E+00	0.1550E+00	0.6668E+00
9013	0.7150E-01	0.2287E+00	0.7647E-01	0.1383E+00	0.1550E+00	0.6668E+00
9014	0.7150E-01	0.2287E+00	0.7647E-01	0.3488E+00	0.1550E+00	0.7447E+00
9014	0.6353E-01	0.2287E+00	0.8061E-01	0.3488E+00	0.1550E+00	0.7447E+00
27	0.6353E-01	0.2287E+00	0.8061E-01	0.5820E+00	0.1550E+00	0.7750E+00
27	0.5375E-01	0.2288E+00	0.8125E-01	0.5820E+00	0.1550E+00	0.7750E+00
28	0.5375E-01	0.2288E+00	0.8125E-01	0.6706E+00	0.1550E+00	0.7703E+00
28	0.5588E-01	0.2288E+00	0.7939E-01	0.6706E+00	0.1550E+00	0.7703E+00
29	0.5588E-01	0.2288E+00	0.7939E-01	0.5388E+00	0.1550E+00	0.7097E+00
29	0.7199E-01	0.2289E+00	0.7990E-01	0.5388E+00	0.1550E+00	0.7097E+00
9015	0.7199E-01	0.2289E+00	0.7990E-01	0.2917E+00	0.1550E+00	0.5213E+00
9015	0.9562E-01	0.2290E+00	0.8094E-01	0.2917E+00	0.1550E+00	0.5213E+00
9016	0.9562E-01	0.2290E+00	0.8094E-01	0.4930E-01	0.1550E+00	0.2590E+00
9016	0.1115E+00	0.2290E+00	0.8177E-01	0.4930E-01	0.1550E+00	0.2590E+00
30	0.1115E+00	0.2290E+00	0.8177E-01	0.2175E+00	0.1550E+00	0.1564E+00
30	0.1156E+00	0.2291E+00	0.8188E-01	0.2175E+00	0.1550E+00	0.1564E+00
31	0.1156E+00	0.2291E+00	0.8188E-01	0.2242E+00	0.1550E+00	0.1623E+00
31	0.1163E+00	0.2291E+00	0.8189E-01	0.2242E+00	0.1550E+00	0.1623E+00
32	0.1163E+00	0.2291E+00	0.8189E-01	0.2216E+00	0.1509E+00	0.1792E+00
32	0.1173E+00	0.2291E+00	0.8191E-01	0.2216E+00	0.1509E+00	0.1792E+00
35	0.1173E+00	0.2291E+00	0.8191E-01	0.1799E+00	0.1433E+00	0.1866E+00
35	0.1195E+00	0.2291E+00	0.8194E-01	0.1799E+00	0.1433E+00	0.1866E+00
37	0.1195E+00	0.2291E+00	0.8194E-01	0.4957E-01	0.1477E+00	0.1866E+00
37	0.1513E+00	0.5088E-02	0.8229E-01	0.4957E-01	0.1477E+00	0.1866E+00
9017	0.1513E+00	0.5088E-02	0.8229E-01	0.3915E-01	0.4513E+00	0.1866E+00
9017	0.1682E+00	0.5227E-02	0.8256E-01	0.3915E-01	0.4513E+00	0.1866E+00
9018	0.1682E+00	0.5227E-02	0.8256E-01	0.2935E-01	0.8856E+00	0.1866E+00
9018	0.1786E+00	0.5511E-02	0.8288E-01	0.2935E-01	0.8856E+00	0.1866E+00
38	0.1786E+00	0.5511E-02	0.8288E-01	0.2210E-01	0.1354E+01	0.1866E+00
38	0.1834E+00	0.5266E-02	0.8312E-01	0.2210E-01	0.1354E+01	0.1866E+00
39	0.1834E+00	0.5266E-02	0.8312E-01	0.2099E-01	0.1508E+01	0.1866E+00
39	0.2253E+00	0.4742E-02	0.8378E-01	0.2099E-01	0.1508E+01	0.1866E+00
9019	0.2253E+00	0.4742E-02	0.8378E-01	0.1865E-01	0.8829E+00	0.1866E+00
9019	0.2228E+00	0.4269E-02	0.8426E-01	0.1865E-01	0.8829E+00	0.1866E+00
40	0.2228E+00	0.4269E-02	0.8426E-01	0.1932E-01	0.2595E+00	0.1866E+00
40	0.2274E+00	0.4683E-02	0.8476E-01	0.1932E-01	0.2595E+00	0.1866E+00
41	0.2274E+00	0.4683E-02	0.8476E-01	0.2266E-01	0.3037E+00	0.1866E+00
41	0.2317E+00	0.4832E-02	0.8505E-01	0.2266E-01	0.3037E+00	0.1866E+00

43	0.2317E+00	0.4832E-02	0.8505E-01	0.2347E-01	0.3746E+00	0.1877E+00
43	0.2328E+00	0.4839E-02	0.8509E-01	0.2347E-01	0.3746E+00	0.1877E+00
44	0.2328E+00	0.4839E-02	0.8509E-01	0.2347E-01	0.3750E+00	0.1880E+00
44	0.2405E+00	0.3374E-01	0.8530E-01	0.2347E-01	0.3750E+00	0.1880E+00
45	0.2405E+00	0.3374E-01	0.8530E-01	0.2347E-01	0.3775E+00	0.1781E+00
45	0.2575E+00	0.3355E-01	0.8484E-01	0.2347E-01	0.3775E+00	0.1781E+00
9020	0.2575E+00	0.3355E-01	0.8484E-01	0.2347E-01	0.1759E+00	0.1079E+00
9020	0.2749E+00	0.3303E-01	0.8510E-01	0.2347E-01	0.1759E+00	0.1079E+00
46	0.2749E+00	0.3303E-01	0.8510E-01	0.2347E-01	0.2864E-01	0.5751E-01
46	0.2856E+00	0.3296E-01	0.8507E-01	0.2347E-01	0.2864E-01	0.5751E-01
47	0.2856E+00	0.3296E-01	0.8507E-01	0.2347E-01	0.4913E-01	0.5579E-01
47	0.3043E+00	0.2692E-01	0.1957E-01	0.2393E-01	0.1740E-01	0.1022E+00
48	0.3043E+00	0.2692E-01	0.1957E-01	0.2393E-01	0.1910E-01	0.9819E-01
48	0.3080E+00	0.2683E-01	0.1921E-01	0.2393E-01	0.1910E-01	0.9819E-01
49	0.3080E+00	0.2683E-01	0.1921E-01	0.2393E-01	0.2378E-01	0.9229E-01
49	0.3665E+00	0.2631E-01	0.1403E-01	0.2393E-01	0.2378E-01	0.9229E-01
50	0.3665E+00	0.2631E-01	0.1403E-01	0.2393E-01	0.2678E-01	0.8800E-01
50	0.3698E+00	0.2630E-01	0.1379E-01	0.2393E-01	0.2678E-01	0.8800E-01
51	0.3698E+00	0.2630E-01	0.1379E-01	0.2393E-01	0.2779E-01	0.8694E-01
51	0.3732E+00	0.2630E-01	0.1355E-01	0.2393E-01	0.2779E-01	0.8694E-01
52	0.3732E+00	0.2630E-01	0.1355E-01	0.2393E-01	0.3184E-01	0.8409E-01
52	0.4068E+00	0.1553E-01	0.1191E-01	0.2393E-01	0.3184E-01	0.8409E-01
53	0.4068E+00	0.1553E-01	0.1191E-01	0.2393E-01	0.4714E-01	0.5394E-01
53	0.4412E+00	0.1336E-01	0.1200E-01	0.2393E-01	0.4714E-01	0.5394E-01
54	0.4412E+00	0.1336E-01	0.1200E-01	0.2393E-01	0.7209E-01	0.2353E-01
54	0.4796E+00	0.1403E-01	0.3488E-01	0.2393E-01	0.7209E-01	0.2353E-01
55	0.4796E+00	0.1403E-01	0.3488E-01	0.2393E-01	0.7253E-01	0.2422E-01
55	0.4831E+00	0.1547E-01	0.3486E-01	0.2393E-01	0.7253E-01	0.2422E-01
56	0.4831E+00	0.1547E-01	0.3486E-01	0.2008E-01	0.9045E-01	0.2827E-01
56	0.4873E+00	0.1741E-01	0.3489E-01	0.2008E-01	0.9045E-01	0.2827E-01
57	0.4873E+00	0.1741E-01	0.3489E-01	0.1780E-01	0.1784E+00	0.2827E-01
57	0.1872E+00	0.2809E-01	0.3502E-01	0.1780E-01	0.1784E+00	0.2827E-01
58	0.1872E+00	0.2809E-01	0.3502E-01	0.1556E-01	0.1480E+00	0.2827E-01
58	0.1845E+00	0.2938E-01	0.3504E-01	0.1556E-01	0.1480E+00	0.2827E-01
59	0.1845E+00	0.2938E-01	0.3504E-01	0.1465E-01	0.1038E+00	0.2827E-01
59	0.1556E+00	0.3439E-01	0.3517E-01	0.1449E-01	0.1027E+00	0.2945E-01
60	0.1556E+00	0.3439E-01	0.3517E-01	0.1779E-01	0.6606E-01	0.2945E-01
60	0.1524E+00	0.3583E-01	0.3519E-01	0.1779E-01	0.6606E-01	0.2945E-01
61	0.1524E+00	0.3583E-01	0.3519E-01	0.2422E-01	0.3538E-01	0.2945E-01
61	0.1458E+00	0.3515E-01	0.3523E-01	0.2422E-01	0.3538E-01	0.2945E-01
62	0.1458E+00	0.3515E-01	0.3523E-01	0.2481E-01	0.3359E-01	0.2945E-01
62	0.1425E+00	0.3648E-01	0.3525E-01	0.2481E-01	0.3359E-01	0.2945E-01
63	0.1425E+00	0.3648E-01	0.3525E-01	0.3478E-01	0.2884E-01	0.1917E-01
63	0.1336E+00	0.3943E-01	0.3530E-01	0.3478E-01	0.2884E-01	0.1917E-01
64	0.1336E+00	0.3943E-01	0.3530E-01	0.3478E-01	0.2077E-01	0.2206E-01
64	0.1250E+00	0.4073E-01	0.3527E-01	0.3478E-01	0.2077E-01	0.2206E-01
65	0.1250E+00	0.4073E-01	0.3527E-01	0.3478E-01	0.1068E-01	0.3796E-01
65	0.2344E+00	0.6552E-01	0.1278E-01	0.2542E-01	0.1068E-01	0.3297E-01
66	0.2344E+00	0.6552E-01	0.1278E-01	0.2542E-01	0.2575E-01	0.5914E-01
66	0.2292E+00	0.6552E-01	0.1261E-01	0.2542E-01	0.2575E-01	0.5914E-01
67	0.2292E+00	0.6552E-01	0.1281E-01	0.2542E-01	0.2169E-01	0.8195E-01

67	0.2252E+00	0.6524E-01	0.1283E-01	0.2542E-01	0.2169E-01	0.8195E-01
68	0.2252E+00	0.6524E-01	0.1283E-01	0.2542E-01	0.1895E-01	0.9809E-01
68	0.2142E+00	0.6683E-01	0.1362E-01	0.2746E-01	0.2693E-01	0.9969E-01
69	0.2142E+00	0.6683E-01	0.1362E-01	0.2746E-01	0.2397E-01	0.1163E+00
69	0.2113E+00	0.6637E-01	0.1364E-01	0.2746E-01	0.2397E-01	0.1163E+00
70	0.2113E+00	0.6637E-01	0.1364E-01	0.2746E-01	0.2193E-01	0.1286E+00
70	0.2072E+00	0.6559E-01	0.1367E-01	0.2746E-01	0.2193E-01	0.1286E+00
71	0.2072E+00	0.6559E-01	0.1367E-01	0.2746E-01	0.1785E-01	0.1559E+00
71	0.3814E+00	0.1815E-01	0.1151E-01	0.2835E-01	0.1785E-01	0.1748E+00
72	0.3814E+00	0.1815E-01	0.1151E-01	0.2835E-01	0.1843E-01	0.1701E+00
72	0.3663E+00	0.2138E-01	0.1160E-01	0.2835E-01	0.1843E-01	0.1701E+00
73	0.3663E+00	0.2138E-01	0.1160E-01	0.2835E-01	0.3151E-01	0.1445E+00
73	0.3320E+00	0.2797E-01	0.7408E-01	0.2835E-01	0.3151E-01	0.1445E+00
74	0.3320E+00	0.2797E-01	0.7408E-01	0.2835E-01	0.1729E-01	0.1405E+00
74	0.3277E+00	0.2876E-01	0.7407E-01	0.2835E-01	0.1729E-01	0.1405E+00
75	0.3277E+00	0.2876E-01	0.7407E-01	0.2835E-01	0.1845E-01	0.1326E+00
75	0.2600E-00	0.3839E-01	0.7391E-01	0.2835E-01	0.1845E-01	0.1326E+00
76	0.2600E+00	0.3839E-01	0.7391E-01	0.2835E-01	0.4777E-01	0.1217E+00
76	0.2557E+00	0.3877E-01	0.7390E-01	0.2835E-01	0.4777E-01	0.1217E+00
77	0.2557E+00	0.3877E-01	0.7390E-01	0.2835E-01	0.6296E-01	0.1166E+00
77	0.8782E-01	0.3697E-01	0.2322E-01	0.5655E-01	0.6619E-01	0.1161E+00
78	0.8782E-01	0.3697E-01	0.2322E-01	0.5655E-01	0.5869E-01	0.1044E+00
78	0.6149E-01	0.3658E-01	0.2333E-01	0.5655E-01	0.5869E-01	0.1044E+00
9021	0.6149E-01	0.3658E-01	0.2333E-01	0.5655E-01	0.1555E-01	0.3892E-01
9021	0.3008E-01	0.2294E-01	0.2269E-01	0.5655E-01	0.1555E-01	0.3892E-01
79	0.3008E-01	0.2294E-01	0.2269E-01	0.5655E-01	0.5532E-01	0.4899E-01
79	0.7108E-02	0.1125E-01	0.2135E-01	0.5655E-01	0.5532E-01	0.4899E-01
80	0.7108E-02	0.1125E-01	0.2135E-01	0.5655E-01	0.7405E-01	0.4551E-01
80	0.6447E-02	0.1508E-01	0.2100E-01	0.5655E-01	0.7405E-01	0.4551E-01
81	0.6447E-02	0.1508E-01	0.2100E-01	0.5655E-01	0.7864E-01	0.4312E-01
81	0.9699E-02	0.1912E-01	0.2080E-01	0.5655E-01	0.7864E-01	0.4312E-01
82	0.9699E-02	0.1912E-01	0.2080E-01	0.5096E-01	0.8227E-01	0.3836E-01
82	0.2576E-01	0.3648E-01	0.2022E-01	0.5096E-01	0.8227E-01	0.3836E-01
9022	0.2576E-01	0.3648E-01	0.2022E-01	0.2967E-01	0.2774E-01	0.3836E-01
9022	0.4980E-01	0.5192E-01	0.1935E-01	0.2967E-01	0.2774E-01	0.3836E-01
83	0.4980E-01	0.5192E-01	0.1935E-01	0.1390E+00	0.7904E-01	0.3836E-01
83	0.6104E-01	0.5346E-01	0.1891E-01	0.1390E+00	0.7904E-01	0.3836E-01
84	0.6104E-01	0.5346E-01	0.1891E-01	0.1494E+00	0.9087E-01	0.3836E-01
84	0.6263E-01	0.5362E-01	0.1885E-01	0.1494E+00	0.9087E-01	0.3836E-01
85	0.6263E-01	0.5362E-01	0.1885E-01	0.1568E+00	0.9954E-01	0.3836E-01
85	0.6705E-01	0.5393E-01	0.1869E-01	0.1568E+00	0.9954E-01	0.3836E-01
86	0.6705E-01	0.5393E-01	0.1869E-01	0.1805E+00	0.1268E+00	0.3450E-01
86	0.7384E-01	0.5392E-01	0.1861E-01	0.1805E+00	0.1268E+00	0.3450E-01
87	0.7384E-01	0.5392E-01	0.1861E-01	0.1766E+00	0.1188E+00	0.4908E-01
47	JUNCTION					
47	0.7907E-01	0.2165E-01	0.7630E-01	0.3790E-01	0.5728E-01	0.1375E+00
91	0.7907E-01	0.2165E-01	0.7630E-01	0.2241E-01	0.5728E-01	0.1192E+00
91	0.7318E-01	0.2190E-01	0.7641E-01	0.2241E-01	0.5728E-01	0.1192E+00
92	0.7318E-01	0.2190E-01	0.7641E-01	0.5914E-01	0.5728E-01	0.6589E-01
92	0.6619E-01	0.2223E-01	0.7644E-01	0.5914E-01	0.5728E-01	0.6589E-01

93	0.6619E-01	0.2223E-01	0.7644E-01	0.8319E-01	0.4248E-01	0.5837E-01
93	0.6269E-01	0.2234E-01	0.7644E-01	0.8319E-01	0.4248E-01	0.5837E-01
94	0.6269E-01	0.2234E-01	0.7644E-01	0.8435E-01	0.3407E-01	0.5837E-01
94	0.5967E-01	0.2239E-01	0.7644E-01	0.8435E-01	0.3407E-01	0.5837E-01
95	0.5967E-01	0.2239E-01	0.7644E-01	0.8694E-01	0.3383E-01	0.5837E-01
95	0.7063E-01	0.2225E-01	0.7652E-01	0.8694E-01	0.3383E-01	0.5837E-01
96	0.7063E-01	0.2225E-01	0.7652E-01	0.9018E-01	0.2281E-01	0.5837E-01
96	0.7321E-01	0.2222E-01	0.7653E-01	0.9018E-01	0.2281E-01	0.5837E-01
97	0.7321E-01	0.2222E-01	0.7653E-01	0.9036E-01	0.2309E-01	0.5837E-01
97	0.7613E-01	0.2217E-01	0.7654E-01	0.9036E-01	0.2309E-01	0.5837E-01
98	0.7613E-01	0.2217E-01	0.7654E-01	0.7196E-01	0.3606E-01	0.4231E-01
98	0.8119E-01	0.2205E-01	0.7655E-01	0.7196E-01	0.3606E-01	0.4231E-01
100	0.8119E-01	0.2205E-01	0.7655E-01	0.4956E-01	0.3606E-01	0.3643E-01
100	0.8484E-01	0.2196E-01	0.7656E-01	0.4956E-01	0.3606E-01	0.3643E-01
101	0.8484E-01	0.2196E-01	0.7656E-01	0.3948E-01	0.3606E-01	0.4565E-01
101	0.1618E+00	0.2417E-01	0.7588E-01	0.4439E-01	0.8862E-01	0.5035E-01
102	0.1618E+00	0.2417E-01	0.7588E-01	0.3374E-01	0.8862E-01	0.7631E-01
102	0.1654E+00	0.2413E-01	0.7589E-01	0.3374E-01	0.8862E-01	0.7631E-01
77	0.1654E+00	0.2413E-01	0.7589E-01	0.3581E-01	0.8862E-01	0.1109E+00
77	JUNCTION					
59	JUNCTION					
59	0.2923E-01	0.3532E-02	0.1441E-02	0.2318E-03	0.1830E-02	0.1930E-02
103	0.2923E-01	0.3532E-02	0.1441E-02	0.2318E-03	0.1384E-02	0.8954E-03
103	0.2748E-01	0.2728E-02	0.1433E-02	0.2318E-03	0.1384E-02	0.8954E-03
104	0.2748E-01	0.2728E-02	0.1433E-02	0.2318E-03	0.2836E-03	0.1349E-02
104	0.2366E-01	0.1612E-02	0.1408E-02	0.2318E-03	0.2836E-03	0.1349E-02
105	0.2366E-01	0.1612E-02	0.1408E-02	0.2318E-03	0.1082E-03	0.1725E-02
105	0.1394E-01	0.1932E-02	0.1332E-02	0.2318E-03	0.1082E-03	0.1725E-02
106	0.1394E-01	0.1932E-02	0.1332E-02	0.2318E-03	0.4145E-03	0.1250E-02
106	0.1333E-01	0.2670E-02	0.1316E-02	0.2318E-03	0.4145E-03	0.1250E-02
107	0.1333E-01	0.2670E-02	0.1316E-02	0.2318E-03	0.1670E-02	0.1327E-02
107	0.1357E-01	0.2565E-02	0.1319E-02	0.2318E-03	0.1670E-02	0.1327E-02
109	0.1357E-01	0.2565E-02	0.1319E-02	0.5274E-03	0.2103E-03	0.1644E-02
109	0.1376E-01	0.2496E-02	0.1319E-02	0.5274E-03	0.2103E-03	0.1644E-02
111	0.1376E-01	0.2496E-02	0.1319E-02	0.1218E-02	0.3739E-02	0.1644E-02
111	0.1396E-01	0.2429E-02	0.1320E-02	0.1218E-02	0.3739E-02	0.1644E-02
112	0.1396E-01	0.2429E-02	0.1320E-02	0.1503E-02	0.5384E-02	0.1644E-02
112	0.1444E-01	0.2292E-02	0.1322E-02	0.1503E-02	0.5384E-02	0.1644E-02
68	0.1444E-01	0.2292E-02	0.1322E-02	0.2210E-02	0.9839E-02	0.1644E-02
68	JUNCTION					
101	JUNCTION					
101	0.7926E-01	0.1040E-01	0.2680E-02	0.2495E-01	0.9082E-01	0.2095E-01
113	0.7926E-01	0.1040E-01	0.2680E-02	0.2072E-01	0.5124E-01	0.2095E-01
113	0.6991E-01	0.1032E-01	0.2581E-02	0.2072E-01	0.5124E-01	0.2095E-01
114	0.6991E-01	0.1032E-01	0.2581E-02	0.1792E-01	0.2659E-01	0.2095E-01
114	0.3154E-01	0.1049E-01	0.2248E-02	0.1792E-01	0.2659E-01	0.2095E-01
115	0.3154E-01	0.1049E-01	0.2248E-02	0.1488E-01	0.1550E-01	0.2095E-01
115	0.2154E-01	0.1066E-01	0.2184E-02	0.1488E-01	0.1550E-01	0.2095E-01
116	0.2154E-01	0.1066E-01	0.2184E-02	0.1090E-01	0.4572E-02	0.2095E-01
116	0.1774E-01	0.1074E-01	0.2162E-02	0.1090E-01	0.4572E-02	0.2095E-01
118	0.1774E-01	0.1074E-01	0.2162E-02	0.9699E-02	0.2020E-02	0.2363E-01

118	0.5306E-02	0.1103E-01	0.2108E-02	0.9699E-02	0.2020E-02	0.2363E-01
9023	0.5306E-02	0.1103E-01	0.2108E-02	0.9331E-02	0.2020E-02	0.3269E-01
9023	0.1763E-01	0.1176E-01	0.2140E-02	0.9331E-02	0.2020E-02	0.3269E-01
120	0.1763E-01	0.1176E-01	0.2140E-02	0.1185E-01	0.2020E-02	0.9323E-02
120	0.2676E-01	0.1228E-01	0.2878E-02	0.1185E-01	0.2020E-02	0.9323E-02
122	0.2676E-01	0.1228E-01	0.2878E-02	0.1024E-01	0.5906E-02	0.1428E-01
122	0.2900E-01	0.1240E-01	0.3148E-02	0.1024E-01	0.5906E-02	0.1428E-01
124	0.2900E-01	0.1240E-01	0.3148E-02	0.6777E-02	0.1595E-01	0.1428E-01
124	0.2674E-01	0.1343E-01	0.6494E-02	0.6777E-02	0.1595E-01	0.1428E-01
125	0.2674E-01	0.1343E-01	0.6494E-02	0.7822E-02	0.6728E-02	0.1428E-01
125	0.2199E-01	0.1346E-01	0.7109E-02	0.7822E-02	0.6728E-02	0.1428E-01
127	0.2199E-01	0.1346E-01	0.7109E-02	0.1024E-01	0.1081E-01	0.1827E-01
127	0.1144E-01	0.1346E-01	0.8320E-02	0.1024E-01	0.1081E-01	0.1827E-01
129	0.1144E-01	0.1346E-01	0.8320E-02	0.2279E-01	0.1081E-01	0.4255E-01
129	0.2949E-01	0.1347E-01	0.1082E-01	0.2279E-01	0.1081E-01	0.4255E-01
9024	0.2949E-01	0.1347E-01	0.1082E-01	0.6109E-02	0.1081E-01	0.2989E-02
9024	0.4181E-01	0.1347E-01	0.1092E-01	0.6109E-02	0.1081E-01	0.2989E-02
130	0.4181E-01	0.1347E-01	0.1092E-01	0.1073E-01	0.1081E-01	0.6737E-01
65	0.2161E+00	0.2210E-01	0.4571E-01	0.1207E-01	0.0000E+00	0.1459E-01
65	JUNCTION					
131	0.2161E+00	0.2210E-01	0.4571E-01	0.1621E-02	0.0000E+00	0.4836E-01
131	0.1785E+00	0.1914E-01	0.5981E-02	0.1621E-02	0.0000E+00	0.4836E-01
132	0.1785E+00	0.1914E-01	0.5981E-02	0.0000E+00	0.0000E+00	0.0000E+00
71	JUNCTION					
71	0.2704E+00	0.5448E-01	0.1401E-01	0.3839E-02	0.0000E+00	0.2393E-01
133	0.2704E+00	0.5448E-01	0.1401E-01	0.9294E-03	0.0000E+00	0.5024E-01
133	0.1854E+00	0.4720E-01	0.3429E-02	0.9294E-03	0.0000E+00	0.5024E-01
134	0.1854E+00	0.4720E-01	0.3429E-02	0.0000E+00	0.0000E+00	0.0000E+00

COMBINED VALUES OF COUPLED SUPPORT REACTIONS

TYPE	NODE	SUPPORT REACTION
FX	1	0.9845E-01
FY	1	0.3502E-01
FZ	1	0.9375E-01
MX	1	0.1510E+00
MY	1	0.1575E+00
MZ	1	0.1617E+00
FX	9	0.2865E+00
FZ	10	0.2359E+00
FY	14	0.1370E-02
FY	15	0.2625E+00
FX	23	0.2821E+00
FZ	28	0.1601E+00
FY	37	0.2288E+00
FX	39	0.4228E+00
FY	44	0.3706E-01
FZ	45	0.1272E+00
FY	52	0.2975E-01
FY	53	0.1554E-02
FZ	54	0.4082E-01

FX	57	0.6868E+00
FY	61	0.8545E-02
FZ	73	0.8114E-01
FY	78	0.3205E-02
FY	79	0.1779E-02
FX	87	0.7697E-01
FY	87	0.5392E-01
FZ	87	0.1861E-01
MX	87	0.1766E+00
MY	87	0.1188E+00
MZ	87	0.4506E-01
FX	124	0.7997E-01
FZ	129	0.1879E-01
FX	130	0.4743E-01
FY	130	0.1347E-01
FZ	130	0.1092E-01
MX	130	0.1073E-01
MY	130	0.1081E-01
MZ	130	0.6737E-01
FX	131	0.4211E+00
FZ	131	0.4766E-01
FX	133	0.4843E+00
FZ	133	0.1475E-01

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PRESSURIZER SPRAY LINE - X DIRECTION RUN

  NUMBER OF PRIMARY DOF                    NP=   78
  NUMBER OF CONNECTING DOF                 NC=   14
  NUMBER OF PIPING ANCHORS                 NA=    3
  NUMBER OF PRIMARY MODES                  NPM=   3
  NUMBER OF SECONDARY MODES                NSM=  31
  NORMALIZATION INDEX FOR P.S.    NORMP=    1
  NORMALIZATION INDEX FOR S.S.    NORMS=    0
  OUTPUT TYPE INDICATOR           IPRINT=   0
  OUTPUT TYPE INDICATOR           IPRINTS=  1
  PRIMARY RESIDUAL MODE KEY       KRESP=    0
  SECONDARY RESIDUAL MODE KEY     KRESS=    1
  NUMBER OF NONZERO IN PRIMARY SYSTEM STIFFNESS MATRIX       NONZP=1191
  GLOBAL EARTHQUAKE DIRECTION  X=1  Y=2(VERTICAL)  Z=3       KFLG=   1

  NUMBER OF ITERATIONS                     NITER=  900
  NUMBER OF SPECTRA CURVES                 NCURVE=  34
  NUMBER OF SPECTRUM POINTS                MXLP=   34
  ITERATION TOLERANCE                      TOL=  0.1000E-05
  RIGID FREQUENCY                          FR=  28.180
  SPECTRUM FACTOR                          SFTR= 386.400
  CORRELATION TOLERANCE                    ET=   0.010


  TOTAL STORAGE REQUIRED  =   1435037
  ACTUAL PROVIDED STORAGE  = 550000000

  PRIMARY DAMPING RATIOS

  0.2111E-01  0.2287E-01  0.5000E-01

  SECONDARY DAMPING RATIOS

  0.5000E-01  0.4215E-01  0.2666E-01  0.2345E-01  0.2282E-01  0.2192E-01
  0.2106E-01  0.1946E-01  0.1940E-01  0.1965E-01  0.1977E-01  0.2151E-01
  0.2404E-01  0.2439E-01  0.2594E-01  0.2750E-01  0.2812E-01  0.2982E-01
  0.3020E-01  0.3199E-01  0.3362E-01  0.3512E-01  0.3651E-01  0.3710E-01
  0.3728E-01  0.3803E-01  0.3958E-01  0.4084E-01  0.4152E-01  0.4173E-01
  0.4264E-01

  CONECTING DOF # OF PRIMARY SYSTEM

 3041 3042 3043 3061 3063 3072 3081 3103 3121 3122 3123 3091 3092 3093

  CONECTING DOF # OF PIPING SUPPORTS

    1    2    3    4    6    8   10   15   16   17   18   19   20   21

  STIFFNESS OF CONNECTING DOF OF S.S.

  0.1000E+09  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.1000E+09  0.0000E+00  0.0000E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
  0.1000E+09  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.7700E+02  0.0000E+00  0.0000E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
  0.7700E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.7706E+02  0.0000E+00  0.0000E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
  0.7700E+02  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.6000E+00  0.0000E+00  0.0000E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.7700E+02  0.0000E+00  0.0000E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
  0.1000E+09  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.1000E+09  0.0000E+00  0.0000E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
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  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
  0.1000E+09  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.1000E+09  0.0000E+00  0.0000E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
  0.1000E+09  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00  0.0000E+00
  0.0000E+00  0.0000E+00  0.0000E+00  0.1000E+09

  NODE # OF PIPING ANCHORS

    1   87  130
 JCTAB =  1  2  3  4  5  9001  9002  6  7  9003  9004  9  10  9005  9006  11  12
  9007  9008  13  14  15  16  17  18  19  20  21  9009  9010  22  23  24  9011
  9012  25  26  9013  9014  27  28  29  9015  9016  30  31  32  35  37  9017
  9018  38  39  9019  40  41  43  44  45  9020  46  47  91  92  93  94  95  96
  97  98  100  101  102  113  114  115  116  118  9023  120  122  124  125  127
  129  9024  130  48  49  50  51  52  53  54  55  56  57  58  59  103  104  105
  106  107  109  111  112  60  61  62  63  64  65  131  132  66  67  68  69  70
  71  133  134  72  73  74  75  76  77  78  9021  79  80  81  82  9022  83  84
  85  86  87

  SECONDARY FREQUENCIES (HZ)

   1.3145174   1.[illegible]67480   2.8009113   3.4301104   3.6005707   3.8[illegible]3602
   4.2590651   [illegible].6890492   7.4677360   8.0709815   8.3071158  10.6266291
  13.1298864  13.4392027  14.7926822  16.0903496  16.5975174  17.9593901
  18.2558554  19.6406358  20.8892353  22.169586[illegible]  23.0565499  23.4915415
  23.6250718  24.1808508  25.3192702  26.236267[illegible]  26.7325045  26.8657538
  27.5431523

  PRIMARY FREQUENCIES (HZ)

  10.1792000  12.0367000  32.9170000

  MODE SHAPE OF P.S. AT CONNECTING DOF    3041

  0.0000E+00  0.2317E-01  0.1283E+00

  MODE SHAPE OF P.S. AT CONNECTING DOF    3042

  0.0000E+00  0.0000E+00  0.0000E+00

  MODE SHAPE OF P.S. AT CONNECTING DOF    3043

  0.1573E-01  0.0000E+00  0.0000E+00

  MODE SHAPE OF P.S. AT CONNECTING DOF    3061

  0.0000E+00  0.6384E-01  0.1936E+00

  MODE SHAPE OF P.S. AT CONNECTING DOF    3063

  0.5286E-01  0.0000E+00  0.0000E+00

  MODE SHAPE OF P.S. AT CONNECTING DOF    3072

  0.0000E+00  0.0000E+00  0.0000E+00

  MODE SHAPE OF P.S. AT CONNECTING DOF    3081

  0.0000E+00  0.1114E+00  0.1635E+00

  MODE SHAPE OF P.S. AT CONNECTING DOF    3103

  0.1903E+00  0.0000E+00  0.0000E+00

  MODE SHAPE OF P.S. AT CONNECTING DOF    3121

  0.0000E+00  0.2428E+00 -0.9269E-01

  MODE SHAPE OF P.S. AT CONNECTING DOF    3122

  0.0000E+00  0.0000E+00  0.0000E+00

  MODE SHAPE OF P.S. AT CONNECTING DOF    3123

  0.2483E+00  0.0000E+00  0.0000E+00

  MODE SHAPE OF P.S. AT CONNECTING DOF    3091

  0.0000E+00  0.1323E+00  0.1277E+00

  MODE SHAPE OF P.S. AT CONNECTING DOF    3092
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0.0000E+00 0.0000E+00 0.0000E+00

NODE SHAPE OF P.S. AT CONNECTING DOF 3093

0.1179E+00 0.0000E+00 0.0000E+00

PARTICIPATION FACTOR FOR P.S.---GAMAF

0.0000E+00 0.5388E-01 0.3758E+01

INPUT SPECTRUM CURVE NUMBER = 1

NUMBER OF DEFINITION POINTS = 34

DAMPING RATIO FOR THIS CURVE = 0.19000E-01

INPUT POINT	FREQUENCY (HZ)	INPUT SPECTRAL ACCELERATION
1	0.1315E+01	0.3012E+00
2	0.1587E+01	0.3829E+00
3	0.2801E+01	0.7056E+00
4	0.3430E+01	0.5727E+00
5	0.3601E+01	0.5737E+00
6	0.3898E+01	0.5001E+00
7	0.4259E+01	0.6502E+00
8	0.5689E+01	0.4877E+00
9	0.7468E+01	0.4020E+00
10	0.8071E+01	0.3116E+00
11	0.8307E+01	0.2837E+00
12	0.1018E+02	0.2340E+00
13	0.1063E+02	0.2189E+00
14	0.1204E+02	0.22[illegible]E+00
15	0.1313E+02	0.21[illegible]E+00
16	0.1344E+02	0.20[illegible]E+00
17	0.1479E+02	0.1953E+00
18	0.1609E+02	0.1860E+00
19	0.1660E+02	0.1877E+00
20	0.1796E+02	0.18[illegible]E+00
21	0.1826E+02	0.1845E+00
22	0.1964E+02	0.1895E+00
23	0.2089E+02	0.1867E+00
24	0.2217E+02	0.1832E+00
25	0.2306E+02	0.1867E+00
26	0.2349E+02	0.1890E+00
27	0.2362E+02	0.1895E+00
28	0.2418E+02	0.1908E+00
29	0.2532E+02	0.1902E+00
30	0.2624E+02	0.1903E+00
31	0.2673E+02	0.1895E+00
32	0.2689E+02	0.1889E+00
33	0.2754E+02	0.1853E+00
34	0.3292E+02	0.1829E+00

INPUT SPECTRUM CURVE NUMBER = 2

NUMBER OF DEFINITION POINTS = 34

DAMPING RATIO FOR THIS CURVE = 0.19400E-01

INPUT POINT	FREQUENCY (HZ)	INPUT SPECTRAL ACCELERATION
1	0.1315E+01	0.2999E+00
2	0.1587E+01	0.3817E+00
3	0.2801E+01	0.6982E+00
4	0.3430E+01	0.5684E+00
5	0.3601E+01	0.5694E+00
6	0.3898E+01	0.4969E+00
7	0.4259E+01	0.6423E+00
8	0.5689E+01	0.4855E+00
9	0.7468E+01	0.3988E+00
10	0.8071E+01	0.3091E+00
11	0.8307E+01	0.2820E+00
12	0.1018E+02	0.2334E+00
13	0.1063E+02	0.2183E+00
14	0.1204E+02	0.2264E+00
15	0.1313E+02	0.2129E+00
16	0.1344E+02	0.2071E+00
17	0.1479E+02	0.1952E+00
18	0.1609E+02	0.1862E+00
19	0.1660E+02	0.1877E+00
20	0.1796E+02	0.1842E+00
21	0.1826E+02	0.1846E+00
22	0.1964E+02	0.1895E+00
23	0.2089E+02	0.1867E+00
24	0.2217E+02	0.1832E+00
25	0.2306E+02	0.1867E+00
26	0.2349E+02	0.1890E+00
27	0.2362E+02	0.1895E+00
28	0.2418E+02	0.1907E+00
29	0.2532E+02	0.1902E+00
30	0.2624E+02	0.1902E+00
31	0.2673E+02	0.1894E+00
32	0.2689E+02	0.1889E+00
33	0.2754E+02	0.1853E+00
34	0.3292E+02	0.1829E+00

INPUT SPECTRUM CURVE NUMBER = 3

NUMBER OF DEFINITION POINTS = 34

DAMPING RATIO FOR THIS CURVE = 0.19441E-01

INPUT POINT	FREQUENCY (HZ)	INPUT SPECTRAL ACCELERATION
1	0.1315E+01	0.2998E+00
2	0.1587E+01	0.3816E+00
3	0.2801E+01	0.6975E+00
4	0.3430E+01	0.5680E+00
5	0.3601E+01	0.5689E+00
6	0.3898E+01	0.4966E+00
7	0.4259E+01	0.6415E+00
8	0.5689E+01	0.4864E+00
9	0.7468E+01	0.3984E+00
10	0.8071E+01	0.3089E+00
11	0.8307E+01	0.2818E+00
12	0.1018E+02	0.2333E+00
13	0.1063E+02	0.2183E+00
14	0.1204E+02	0.2262E+00
15	0.1313E+02	0.2129E+00
16	0.1344E+02	0.2071E+00
17	0.1479E+02	0.1952E+00
18	0.1609E+02	0.1862E+00
19	0.1660E+02	0.1877E+00
20	0.1796E+02	0.1842E+00
21	0.1826E+02	0.1846E+00
22	0.1964E+02	0.1895E+00
23	0.2089E+02	0.1867E+00
24	0.2217E+02	0.1832E+00
25	0.2306E+02	0.1867E+00
26	0.2349E+02	0.1890E+00
27	0.2362E+02	0.1895E+00
28	0.2418E+02	0.1907E+00
29	0.2532E+02	0.1902E+00
30	0.2624E+02	0.1902E+00
31	0.2673E+02	0.1894E+00
32	0.2689E+02	0.1888E+00
33	0.2754E+02	0.1853E+00
34	0.3292E+02	0.1829E+00

INPUT SPECTRUM CURVE NUMBER = 4

NUMBER OF DEFINITION POINTS = 34

DAMPING RATIO FOR THIS CURVE = 0.19651E-01

INPUT POINT	FREQUENCY (HZ)	INPUT SPECTRAL ACCELERATION
1	0.1315E+01	0.2991E+00
2	0.1587E+01	0.3809E+00
3	0.2801E+01	0.6936E+00
4	0.3430E+01	0.5658E+00
5	0.3601E+01	0.5666E+00
6	0.3898E+01	0.4950E+00
7	0.4259E+01	0.6375E+00
8	0.5689E+01	0.4859E+00
9	0.7468E+01	0.3968E+00
10	0.8071E+01	0.3076E+00
11	0.8307E+01	0.2810E+00
12	0.1018E+02	0.2330E+00
13	0.1063E+02	0.2180E+00
14	0.1204E+02	0.2253E+00
15	0.1313E+02	0.2126E+00
16	0.1344E+02	0.2068E+00
17	0.1479E+02	0.1952E+00
18	0.1609E+02	0.1863E+00
19	0.1660E+02	0.1876E+00
20	0.1796E+02	0.1842E+00
21	0.1826E+02	0.1846E+00
22	0.1964E+02	0.1895E+00
23	0.2089E+02	0.1867E+00
24	0.2217E+02	0.1833E+00
25	0.2306E+02	0.1867E+00
26	0.2349E+02	0.1890E+00
27	0.2362E+02	0.1894E+00
28	0.2418E+02	0.1907E+00
29	0.2532E+02	0.1902E+00
30	0.2624E+02	0.1902E+00
31	0.2673E+02	0.1894E+00
32	0.2689E+02	0.1888E+00
33	0.2754E+02	0.1853E+00
34	0.3292E+02	0.1830E+00

INPUT SPECTRUM CURVE NUMBER = 5

NUMBER OF DEFINITION POINTS = 34

DAMPING RATIO FOR THIS CURVE = 0.19775E-01

INPUT POINT	FREQUENCY (HZ)	INPUT SPECTRAL ACCELERATION
1	0.1315E+01	0.2988E+00
2	0.1587E+01	0.3806E+00
3	0.2801E+01	0.6913E+00
4	0.3430E+01	0.5645E+00

5	0.3601E+01	0.5653E+00
6	0.3898E+01	0.4940E+00
7	0.4259E+01	0.6351E+00
8	0.5689E+01	0.4855E+00
9	0.7468E+01	0.3958E+00
10	0.8071E+01	0.3068E+00
11	0.8307E+01	0.2805E+00
12	0.1018E+02	0.2329E+00
13	0.1063E+02	0.2178E+00
14	0.1204E+02	0.2248E+00
15	0.1313E+02	0.2124E+00
16	0.1344E+02	0.2067E+00
17	0.1479E+02	0.1951E+00
18	0.1609E+02	0.1863E+00
19	0.1660E+02	0.1876E+00
20	0.1796E+02	0.1842E+00
21	0.1826E+02	0.1846E+00
22	0.1964E+02	0.1895E+00
23	0.2089E+02	0.1867E+00
24	0.2217E+02	0.1833E+00
25	0.2306E+02	0.1867E+00
26	0.2349E+02	0.1889E+00
27	0.2362E+02	0.1894E+00
28	0.2418E+02	0.1907E+00
29	0.2532E+02	0.1902E+00
30	0.2624E+02	0.1902E+00
31	0.2673E+02	0.1894E+00
32	0.2689E+02	0.1888E+00
33	0.2754E+02	0.1853E+00
34	0.3292E+02	0.1830E+00

INPUT SPECTRUM CURVE NUMBER = 6

NUMBER OF DEFINITION POINTS = 34

DAMPING RATIO FOR THIS CURVE = 0.21076E-01

INPUT POINT	FREQUENCY (HZ)	INPUT SPECTRAL ACCELERATION
1	0.1315E+01	0.2948E+00
2	0.1587E+01	0.3766E+00
3	0.2801E+01	0.6684E+00
4	0.3430E+01	0.5512E+00
5	0.3601E+01	0.5515E+00
6	0.3898E+01	0.4841E+00
7	0.4259E+01	0.6116E+00
8	0.5689E+01	0.4816E+00
9	0.7468E+01	0.3859E+00
10	0.8071E+01	0.2993E+00
11	0.8307E+01	0.2754E+00
12	0.1018E+02	0.2312E+00
13	0.1063E+02	0.2160E+00
14	0.1204E+02	0.2195E+00
15	0.1313E+02	0.2108E+00
16	0.1344E+02	0.2052E+00
17	0.1479E+02	0.1948E+00
18	0.1609E+02	0.1869E+00
19	0.1660E+02	0.1875E+00
20	0.1796E+02	0.1843E+00
21	0.1826E+02	0.1848E+00
22	0.1964E+02	0.1894E+00
23	0.2089E+02	0.1867E+00
24	0.2217E+02	0.1835E+00
25	0.2306E+02	0.1867E+00
26	0.2349E+02	0.1888E+00
27	0.2362E+02	0.1893E+00
28	0.2418E+02	0.1905E+00
29	0.2532E+02	0.1901E+00
30	0.2624E+02	0.1901E+00
31	0.2673E+02	0.1893E+00
32	0.2689E+02	0.1888E+00
33	0.2754E+02	0.1855E+00
34	0.3292E+02	0.1830E+00

INPUT SPECTRUM CURVE NUMBER = 7

NUMBER OF DEFINITION POINTS = 34

DAMPING RATIO FOR THIS CURVE = 0.21110E-01

INPUT POINT	FREQUENCY (HZ)	INPUT SPECTRAL ACCELERATION
1	0.1315E+01	0.2947E+00
2	0.1587E+01	0.3767E+00
3	0.2801E+01	0.6679E+00
4	0.3430E+01	0.5508E+00
5	0.3601E+01	0.5511E+00
6	0.3898E+01	0.4838E+00
7	0.4259E+01	0.6110E+00
8	0.5689E+01	0.4817E+00
9	0.7468E+01	0.3857E+00
10	0.8071E+01	0.2991E+00
11	0.8307E+01	0.2753E+00
12	0.1018E+02	0.2311E+00
13	0.1063E+02	0.2160E+00
14	0.1204E+02	0.2193E+00
15	0.1313E+02	0.2108E+00
16	0.1344E+02	0.2052E+00
17	0.1479E+02	0.1948E+00

18	0.1609E+02	0.1869E+00
19	0.1660E+02	0.1875E+00
20	0.1796E+02	0.1843E+00
21	0.1826E+02	0.1848E+00
22	0.1964E+02	0.1894E+00
23	0.2089E+02	0.1867E+00
24	0.2217E+02	0.1835E+00
25	0.2306E+02	0.1867E+00
26	0.2349E+02	0.1888E+00
27	0.2362E+02	0.1893E+00
28	0.2418E+02	0.1905E+00
29	0.2532E+02	0.1901E+00
30	0.2624E+02	0.1901E+00
31	0.2673E+02	0.1893E+00
32	0.2689E+02	0.1887E+00
33	0.2754E+02	0.1855E+00
34	0.3292E+02	0.1830E+00

INPUT SPECTRUM CURVE NUMBER = 8

NUMBER OF DEFINITION POINTS = 34

DAMPING RATIO FOR THIS CURVE = 0.21512E-01

INPUT POINT	FREQUENCY (HZ)	INPUT SPECTRAL ACCELERATION
1	0.1315E+01	0.2935E+00
2	0.1587E+01	0.3756E+00
3	0.2801E+01	0.6612E+00
4	0.3430E+01	0.5466E+00
5	0.3601E+01	0.5470E+00
6	0.3898E+01	0.4808E+00
7	0.4259E+01	0.6041E+00
8	0.5689E+01	0.4805E+00
9	0.7468E+01	0.3827E+00
10	0.8071E+01	0.2969E+00
11	0.8307E+01	0.2739E+00
12	0.1018E+02	0.2307E+00
13	0.1063E+02	0.2154E+00
14	0.1204E+02	0.2178E+00
15	0.1313E+02	0.2103E+00
16	0.1344E+02	0.2048E+00
17	0.1479E+02	0.1947E+00
18	0.1609E+02	0.1870E+00
19	0.1660E+02	0.1874E+00
20	0.1796E+02	0.1843E+00
21	0.1826E+02	0.1849E+00
22	0.1964E+02	0.1894E+00
23	0.2089E+02	0.1867E+00
24	0.2217E+02	0.1835E+00
25	0.2306E+02	0.1867E+00
26	0.2349E+02	0.1888E+00
27	0.2362E+02	0.1892E+00
28	0.2418E+02	0.1904E+00
29	0.2532E+02	0.1901E+00
30	0.2624E+02	0.1900E+00
31	0.2673E+02	0.1892E+00
32	0.2689E+02	0.1887E+00
33	0.2754E+02	0.1855E+00
34	0.3292E+02	0.1830E+00

INPUT SPECTRUM CURVE NUMBER = 9

NUMBER OF DEFINITION POINTS = 34

DAMPING RATIO FOR THIS CURVE = 0.21920E-01

INPUT POINT	FREQUENCY (HZ)	INPUT SPECTRAL ACCELERATION
1	0.1315E+01	0.2923E+00
2	0.1587E+01	0.3744E+00
3	0.2801E+01	0.6546E+00
4	0.3430E+01	0.5428E+00
5	0.3601E+01	0.5428E+00
6	0.3898E+01	0.4779E+00
7	0.4259E+01	0.5973E+00
8	0.5689E+01	0.4793E+00
9	0.7468E+01	0.3798E+00
10	0.8071E+01	0.2947E+00
11	0.8307E+01	0.2724E+00
12	0.1018E+02	0.2302E+00
13	0.1063E+02	0.2149E+00
14	0.1204E+02	0.2162E+00
15	0.1313E+02	0.2099E+00
16	0.1344E+02	0.2044E+00
17	0.1479E+02	0.1946E+00
18	0.1609E+02	0.1872E+00
19	0.1660E+02	0.1874E+00
20	0.1796E+02	0.1844E+00
21	0.1826E+02	0.1849E+00
22	0.1964E+02	0.1894E+00
23	0.2089E+02	0.1867E+00
24	0.2217E+02	0.1836E+00
25	0.2306E+02	0.1867E+00
26	0.2349E+02	0.1887E+00
27	0.2362E+02	0.1892E+00
28	0.2418E+02	0.1904E+00
29	0.2532E+02	0.1901E+00
30	0.2624E+02	0.1900E+00

31	0.2673E+02	0.1892E+00
32	0.2689E+02	0.1887E+00
33	0.2754E+02	0.1855E+00
34	0.3292E+02	0.1830E+00

INPUT SPECTRUM CURVE NUMBER = 10

NUMBER OF DEFINITION POINTS = 34

DAMPING RATIO FOR THIS CURVE = 0.22625E-01

INPUT POINT	FREQUENCY (HZ)	INPUT SPECTRAL ACCELERATION
1	0.1315E+01	0.2896E+00
2	0.1587E+01	0.3719E+00
3	0.2801E+01	0.6405E+00
4	0.3430E+01	0.5341E+00
5	0.3601E+01	0.5338E+00
6	0.3898E+01	0.4713E+00
7	0.4259E+01	0.5829E+00
8	0.5689E+01	0.4766E+00
9	0.7468E+01	0.3735E+00
10	0.8071E+01	0.2902E+00
11	0.8307E+01	0.2693E+00
12	0.1018E+02	0.2292E+00
13	0.1063E+02	0.2136E+00
14	0.1204E+02	0.2131E+00
15	0.1313E+02	0.2089E+00
16	0.1344E+02	0.2036E+00
17	0.1479E+02	0.1943E+00
18	0.1609E+02	0.1875E+00
19	0.1660E+02	0.1873E+00
20	0.1796E+02	0.1844E+00
21	0.1826E+02	0.1850E+00
22	0.1964E+02	0.1894E+00
23	0.2089E+02	0.1867E+00
24	0.2217E+02	0.1837E+00
25	0.2306E+02	0.1867E+00
26	0.2349E+02	0.1886E+00
27	0.2362E+02	0.1891E+00
28	0.2418E+02	0.1903E+00
29	0.2532E+02	0.1901E+00
30	0.2624E+02	0.1899E+00
31	0.2673E+02	0.1891E+00
32	0.2689E+02	0.1886E+00
33	0.2754E+02	0.1856E+00
34	0.3292E+02	0.1830E+00

INPUT SPECTRUM CURVE NUMBER = 11

NUMBER OF DEFINITION POINTS = 34

DAMPING RATIO FOR THIS CURVE = 0.22875E-01

INPUT POINT	FREQUENCY (HZ)	INPUT SPECTRAL ACCELERATION
1	0.1315E+01	0.2894E+00
2	0.1587E+01	0.3717E+00
3	0.2801E+01	0.6397E+00
4	0.3430E+01	0.5337E+00
5	0.3601E+01	0.5333E+00
6	0.3898E+01	0.4710E+00
7	0.4259E+01	0.5821E+00
8	0.5689E+01	0.4765E+00
9	0.7468E+01	0.3731E+00
10	0.8071E+01	0.2899E+00
11	0.8307E+01	0.2692E+00
12	0.1018E+02	0.2291E+00
13	0.1063E+02	0.2137E+00
14	0.1204E+02	0.2129E+00
15	0.1313E+02	0.2088E+00
16	0.1344E+02	0.2036E+00
17	0.1479E+02	0.1943E+00
18	0.1609E+02	0.1875E+00
19	0.1660E+02	0.1873E+00
20	0.1796E+02	0.1844E+00
21	0.1826E+02	0.1850E+00
22	0.1964E+02	0.1894E+00
23	0.2089E+02	0.1867E+00
24	0.2217E+02	0.1837E+00
25	0.2306E+02	0.1867E+00
26	0.2349E+02	0.1886E+00
27	0.2362E+02	0.1891E+00
28	0.2418E+02	0.1903E+00
29	0.2532E+02	0.1900E+00
30	0.2624E+02	0.1899E+00
31	0.2673E+02	0.1891E+00
32	0.2689E+02	0.1886E+00
33	0.2754E+02	0.1856E+00
34	0.3292E+02	0.1830E+00

INPUT SPECTRUM CURVE NUMBER = 12

NUMBER OF DEFINITION POINTS = 34

DAMPING RATIO FOR THIS CURVE = 0.23447E-01

INPUT	FREQUENCY	INPUT SPECTRAL

POINT	(HZ)	ACCELERATION
1	0.1315E+01	0.2870E+00
2	0.1587E+01	0.3701E+00
3	0.2801E+01	0.6312E+00
4	0.3430E+01	0.5263E+00
5	0.3601E+01	0.5277E+00
6	0.3898E+01	0.4669E+00
7	0.4259E+01	0.5741E+00
8	0.5689E+01	0.4747E+00
9	0.7468E+01	0.3693E+00
10	0.8071E+01	0.2872E+00
11	0.8307E+01	0.2673E+00
12	0.1018E+02	0.2285E+00
13	0.1063E+02	0.2130E+00
14	0.1204E+02	0.2110E+00
15	0.1313E+02	0.2083E+00
16	0.1344E+02	0.2032E+00
17	0.1479E+02	0.1942E+00
18	0.1609E+02	0.1877E+00
19	0.1660E+02	0.1873E+00
20	0.1796E+02	0.1845E+00
21	0.1826E+02	0.1851E+00
22	0.1964E+02	0.1894E+00
23	0.2089E+02	0.1868E+00
24	0.2217E+02	0.1838E+00
25	0.2306E+02	0.1867E+00
26	0.2349E+02	0.1886E+00
27	0.2362E+02	0.1890E+00
28	0.2418E+02	0.1902E+00
29	0.2532E+02	0.1900E+00
30	0.2624E+02	0.1899E+00
31	0.2673E+02	0.1891E+00
32	0.2689E+02	0.1886E+00
33	0.2754E+02	0.1856E+00
34	0.3292E+02	0.1831E+00

INPUT SPECTRUM CURVE NUMBER = 13

NUMBER OF DEFINITION POINTS = 34

DAMPING RATIO FOR THIS CURVE = 0.24044E-01

INPUT POINT	FREQUENCY (HZ)	INPUT SPECTRAL ACCELERATION
1	0.1315E+01	0.2861E+00
2	0.1587E+01	0.3685E+00
3	0.2801E+01	0.6226E+00
4	0.3430E+01	0.5228E+00
5	0.3601E+01	0.5220E+00
6	0.3898E+01	0.4627E+00
7	0.4259E+01	0.5694E+00
8	0.5689E+01	0.4729E+00
9	0.7468E+01	0.3656E+00
10	0.8071E+01	0.2845E+00
11	0.8307E+01	0.2654E+00
12	0.1018E+02	0.2279E+00
13	0.1063E+02	0.2124E+00
14	0.1204E+02	0.2092E+00
15	0.1313E+02	0.2077E+00
16	0.1344E+02	0.2027E+00
17	0.1479E+02	0.1941E+00
18	0.1609E+02	0.1878E+00
19	0.1660E+02	0.1872E+00
20	0.1796E+02	0.1845E+00
21	0.1826E+02	0.1852E+00
22	0.1964E+02	0.1893E+00
23	0.2089E+02	0.1868E+00
24	0.2217E+02	0.1839E+00
25	0.2306E+02	0.1866E+00
26	0.2349E+02	0.1885E+00
27	0.2362E+02	0.1890E+00
28	0.2418E+02	0.1901E+00
29	0.2532E+02	0.1900E+00
30	0.2624E+02	0.1898E+00
31	0.2673E+02	0.1890E+00
32	0.2689E+02	0.1885E+00
33	0.2754E+02	0.1856E+00
34	0.3292E+02	0.1831E+00

INPUT SPECTRUM CURVE NUMBER = 14

NUMBER OF DEFINITION POINTS = 34

DAMPING RATIO FOR THIS CURVE = 0.24387E-01

INPUT POINT	FREQUENCY (HZ)	INPUT SPECTRAL ACCELERATION
1	0.1315E+01	0.2851E+00
2	0.1587E+01	0.3675E+00
3	0.2801E+01	0.6178E+00
4	0.3430E+01	0.5197E+00
5	0.3601E+01	0.5187E+00
6	0.3898E+01	0.4603E+00
7	0.4259E+01	0.5667E+00
8	0.5689E+01	0.4719E+00
9	0.7468E+01	0.3638E+00
10	0.8071E+01	0.2829E+00
11	0.8307E+01	0.2643E+00
12	0.1018E+02	0.2276E+00

13	0.1063E+02	0.2120E+00
14	0.1204E+02	0.2081E+00
15	0.1313E+02	0.2074E+00
16	0.1344E+02	0.2025E+00
17	0.1479E+02	0.1940E+00
18	0.1609E+02	0.1879E+00
19	0.1660E+02	0.1872E+00
20	0.1796E+02	0.1845E+00
21	0.1826E+02	0.1852E+00
22	0.1964E+02	0.1893E+00
23	0.2089E+02	0.1868E+00
24	0.2217E+02	0.1839E+00
25	0.2306E+02	0.1866E+00
26	0.2349E+02	0.1885E+00
27	0.2362E+02	0.1889E+00
28	0.2418E+02	0.1901E+00
29	0.2532E+02	0.1900E+00
30	0.2624E+02	0.1898E+00
31	0.2673E+02	0.1890E+00
32	0.2689E+02	0.1885E+00
33	0.2754E+02	0.1857E+00
34	0.3292E+02	0.1831E+00

INPUT SPECTRUM CURVE NUMBER = 15

NUMBER OF DEFINITION POINTS = 34

DAMPING RATIO FOR THIS CURVE = 0.25939E-01

INPUT POINT	FREQUENCY (HZ)	INPUT SPECTRAL ACCELERATION
1	0.1315E+01	0.2821E+00
2	0.1587E+01	0.3633E+00
3	0.2801E+01	0.5973E+00
4	0.3430E+01	0.5060E+00
5	0.3601E+01	0.5044E+00
6	0.3898E+01	0.4500E+00
7	0.4259E+01	0.5551E+00
8	0.5689E+01	0.4670E+00
9	0.7468E+01	0.3559E+00
10	0.8071E+01	0.2763E+00
11	0.8307E+01	0.2597E+00
12	0.1018E+02	0.2261E+00
13	0.1063E+02	0.2103E+00
14	0.1204E+02	0.2054E+00
15	0.1313E+02	0.2060E+00
16	0.1344E+02	0.2014E+00
17	0.1479E+02	0.1936E+00
18	0.1609E+02	0.1884E+00
19	0.1660E+02	0.1872E+00
20	0.1796E+02	0.1846E+00
21	0.1826E+02	0.1853E+00
22	0.1964E+02	0.1893E+00
23	0.2089E+02	0.1868E+00
24	0.2217E+02	0.1841E+00
25	0.2306E+02	0.1866E+00
26	0.2349E+02	0.1884E+00
27	0.2362E+02	0.1888E+00
28	0.2418E+02	0.1899E+00
29	0.2532E+02	0.1899E+00
30	0.2624E+02	0.1896E+00
31	0.2677E+02	0.1888E+00
32	0.2689E+02	0.1884E+00
33	0.2754E+02	0.1857E+00
34	0.3292E+02	0.1831E+00

INPUT SPECTRUM CURVE NUMBER = 16

NUMBER OF DEFINITION POINTS = 34

DAMPING RATIO FOR THIS CURVE = 0.26665E-01

INPUT POINT	FREQUENCY (HZ)	INPUT SPECTRAL ACCELERATION
1	0.1315E+01	0.2807E+00
2	0.1587E+01	0.3613E+00
3	0.2801E+01	0.5882E+00
4	0.3430E+01	0.4999E+00
5	0.3601E+01	0.4980E+00
6	0.3898E+01	0.4457E+00
7	0.4259E+01	0.5499E+00
8	0.5689E+01	0.4647E+00
9	0.7468E+01	0.3523E+00
10	0.8071E+01	0.2733E+00
11	0.8307E+01	0.2577E+00
12	0.1018E+02	0.2255E+00
13	0.1063E+02	0.2095E+00
14	0.1204E+02	0.2050E+00
15	0.1313E+02	0.2054E+00
16	0.1344E+02	0.2009E+00
17	0.1479E+02	0.1935E+00
18	0.1609E+02	0.1885E+00
19	0.1660E+02	0.1872E+00
20	0.1796E+02	0.1847E+00
21	0.1826E+02	0.1854E+00
22	0.1964E+02	0.1892E+00
23	0.2089E+02	0.1868E+00
24	0.2217E+02	0.1842E+00
25	0.2306E+02	0.1866E+00

26	0.2349E+02	0.1883E+00
27	0.2362E+02	0.1887E+00
28	0.2418E+02	0.1898E+00
29	0.2532E+02	0.1899E+00
30	0.2624E+02	0.1896E+00
31	0.2673E+02	0.1888E+00
32	0.2689E+02	0.1883E+00
33	0.2754E+02	0.1858E+00
34	0.3292E+02	0.1832E+00

INPUT SPECTRUM CURVE NUMBER = 17

NUMBER OF DEFINITION POINTS = 34

DAMPING RATIO FOR THIS CURVE = 0.27495E-01

INPUT POINT	FREQUENCY (HZ)	INPUT SPECTRAL ACCELERATION
1	0.1315E+01	0.2792E+00
2	0.1587E+01	0.3591E+00
3	0.2801E+01	0.5783E+00
4	0.3430E+01	0.4930E+00
5	0.3601E+01	0.4907E+00
6	0.3898E+01	0.4408E+00
7	0.4259E+01	0.5442E+00
8	0.5689E+01	0.4621E+00
9	0.7468E+01	0.3484E+00
10	0.8071E+01	0.2701E+00
11	0.8307E+01	0.2555E+00
12	0.1018E+02	0.2248E+00
13	0.1063E+02	0.2087E+00
14	0.1204E+02	0.2044E+00
15	0.1313E+02	0.2047E+00
16	0.1344E+02	0.2004E+00
17	0.1479E+02	0.1931E+00
18	0.1609E+02	0.1887E+00
19	0.1660E+02	0.1872E+00
20	0.1796E+02	0.1847E+00
21	0.1826E+02	0.1855E+00
22	0.1964E+02	0.1892E+00
23	0.2089E+02	0.1868E+00
24	0.2217E+02	0.1843E+00
25	0.2306E+02	0.1866E+00
26	0.2349E+02	0.1883E+00
27	0.2362E+02	0.1887E+00
28	0.2418E+02	0.1897E+00
29	0.2532E+02	0.1898E+00
30	0.2624E+02	0.1895E+00
31	0.2673E+02	0.1887E+00
32	0.2689E+02	0.1883E+00
33	0.2754E+02	0.1858E+00
34	0.3292E+02	0.1832E+00

INPUT SPECTRUM CURVE NUMBER = 18

NUMBER OF DEFINITION POINTS = 34

DAMPING RATIO FOR THIS CURVE = 0.28118E-01

INPUT POINT	FREQUENCY (HZ)	INPUT SPECTRAL ACCELERATION
1	0.1315E+01	0.2781E+00
2	0.1587E+01	0.3575E+00
3	0.2801E+01	0.5712E+00
4	0.3430E+01	0.4879E+00
5	0.3601E+01	0.4854E+00
6	0.3898E+01	0.4372E+00
7	0.4259E+01	0.5400E+00
8	0.5689E+01	0.4601E+00
9	0.7468E+01	0.3455E+00
10	0.8071E+01	0.2677E+00
11	0.8307E+01	0.2539E+00
12	0.1018E+02	0.2243E+00
13	0.1063E+02	0.2081E+00
14	0.1204E+02	0.2041E+00
15	0.1313E+02	0.2043E+00
16	0.1344E+02	0.2001E+00
17	0.1479E+02	0.1931E+00
18	0.1609E+02	0.1888E+00
19	0.1660E+02	0.1871E+00
20	0.1796E+02	0.1848E+00
21	0.1826E+02	0.1855E+00
22	0.1964E+02	0.1892E+00
23	0.2089E+02	0.1868E+00
24	0.2217E+02	0.1844E+00
25	0.2306E+02	0.1866E+00
26	0.2349E+02	0.1882E+00
27	0.2362E+02	0.1886E+00
28	0.2418E+02	0.1897E+00
29	0.2532E+02	0.1898E+00
30	0.2624E+02	0.1894E+00
31	0.2673E+02	0.1887E+00
32	0.2689E+02	0.1882E+00
33	0.2754E+02	0.1858E+00
34	0.3292E+02	0.1832E+00

INPUT SPECTRUM CURVE NUMBER = 19

NUMBER OF DEFINITION POINTS = 34

DAMPING RATIO FOR THIS CURVE = 0.29824E-01

INPUT POINT	FREQUENCY (HZ)	INPUT SPECTRAL ACCELERATION
1	0.1315E+01	0.2750E+00
2	0.1587E+01	0.3531E+00
3	0.2801E+01	0.5527E+00
4	0.3430E+01	0.4746E+00
5	0.3601E+01	0.4713E+00
6	0.3898E+01	0.4276E+00
7	0.4259E+01	0.5288E+00
8	0.5689E+01	0.4547E+00
9	0.7468E+01	0.3379E+00
10	0.8071E+01	0.2615E+00
11	0.8307E+01	0.2496E+00
12	0.1018E+02	0.2229E+00
13	0.1063E+02	0.2067E+00
14	0.1204E+02	0.2031E+00
15	0.1313E+02	0.2031E+00
16	0.1344E+02	0.1993E+00
17	0.1479E+02	0.1928E+00
18	0.1609E+02	0.1891E+00
19	0.1660E+02	0.1871E+00
20	0.1796E+02	0.1849E+00
21	0.1826E+02	0.1856E+00
22	0.1964E+02	0.1891E+00
23	0.2089E+02	0.1868E+00
24	0.2217E+02	0.1845E+00
25	0.2306E+02	0.1866E+00
26	0.2349E+02	0.1881E+00
27	0.2362E+02	0.1865E+00
28	0.2418E+02	0.1895E+00
29	0.2532E+02	0.1897E+00
30	0.2624E+02	0.1893E+00
31	0.2673E+02	0.1885E+00
32	0.2689E+02	0.1881E+00
33	0.2754E+02	0.1859E+00
34	0.3292E+02	0.1833E+00

INPUT SPECTRUM CURVE NUMBER = 20

NUMBER OF DEFINITION POINTS = 34

DAMPING RATIO FOR THIS CURVE = 0.30201E-01

INPUT POINT	FREQUENCY (HZ)	INPUT SPECTRAL ACCELERATION
1	0.1315E+01	0.2743E+00
2	0.1587E+01	0.3521E+00
3	0.2801E+01	0.5488E+00
4	0.3430E+01	0.4717E+00
5	0.3601E+01	0.4683E+00
6	0.3898E+01	0.4255E+00
7	0.4259E+01	0.5265E+00
8	0.5689E+01	0.4535E+00
9	0.7468E+01	0.3363E+00
10	0.8071E+01	0.2602E+00
11	0.8307E+01	0.2487E+00
12	0.1018E+02	0.2226E+00
13	0.1063E+02	0.2064E+00
14	0.1204E+02	0.2029E+00
15	0.1313E+02	0.2029E+00
16	0.1344E+02	0.1992E+00
17	0.1479E+02	0.1927E+00
18	0.1609E+02	0.1892E+00
19	0.1660E+02	0.1871E+00
20	0.1796E+02	0.1849E+00
21	0.1826E+02	0.1857E+00
22	0.1964E+02	0.1890E+00
23	0.2089E+02	0.1868E+00
24	0.2217E+02	0.1846E+00
25	0.2306E+02	0.1866E+00
26	0.2349E+02	0.1881E+00
27	0.2362E+02	0.1865E+00
28	0.2418E+02	0.1895E+00
29	0.2532E+02	0.1897E+00
30	0.2624E+02	0.1892E+00
31	0.2673E+02	0.1885E+00
32	0.2689E+02	0.1881E+00
33	0.2754E+02	0.1859E+00
34	0.3292E+02	0.1833E+00

INPUT SPECTRUM CURVE NUMBER = 21

NUMBER OF DEFINITION POINTS = 34

DAMPING RATIO FOR THIS CURVE = 0.31985E-01

INPUT POINT	FREQUENCY (HZ)	INPUT SPECTRAL ACCELERATION
1	0.1315E+01	0.2712E+00
2	0.1587E+01	0.3476E+00
3	0.2801E+01	0.5312E+00
4	0.3430E+01	0.4586E+00
5	0.3601E+01	0.4544E+00
6	0.3898E+01	0.4160E+00
7	0.4259E+01	0.5156E+00

8	0.5689E+01	0.4478E+00
9	0.7468E+01	0.3290E+00
10	0.8071E+01	0.2543E+00
11	0.8307E+01	0.2447E+00
12	0.1018E+02	0.2213E+00
13	0.1063E+02	0.2050E+00
14	0.1204E+02	0.2020E+00
15	0.1313E+02	0.2019E+00
16	0.1344E+02	0.1985E+00
17	0.1479E+02	0.1924E+00
18	0.1609E+02	0.1894E+00
19	0.1660E+02	0.1872E+00
20	0.1796E+02	0.1850E+00
21	0.1826E+02	0.1858E+00
22	0.1964E+02	0.1889E+00
23	0.2089E+02	0.1868E+00
24	0.2217E+02	0.1847E+00
25	0.2306E+02	0.1865E+00
26	0.2349E+02	0.1880E+00
27	0.2362E+02	0.1864E+00
28	0.2418E+02	0.1893E+00
29	0.2532E+02	0.1896E+00
30	0.2624E+02	0.1891E+00
31	0.2673E+02	0.1884E+00
32	0.2689E+02	0.1880E+00
33	0.2754E+02	0.1859E+00
34	0.3292E+02	0.1833E+00

INPUT SPECTRUM CURVE NUMBER = 22

NUMBER OF DEFINITION POINTS = 34

DAMPING RATIO FOR THIS CURVE = 0.33622E-01

INPUT POINT	FREQUENCY (HZ)	INPUT SPECTRAL ACCELERATION
1	0.1315E+01	0.2684E+00
2	0.1587E+01	0.3435E+00
3	0.2801E+01	0.5165E+00
4	0.3430E+01	0.4472E+00
5	0.3601E+01	0.4423E+00
6	0.3898E+01	0.4076E+00
7	0.4259E+01	0.5062E+00
8	0.5689E+01	0.4425E+00
9	0.7468E+01	0.3227E+00
10	0.8071E+01	0.2492E+00
11	0.8307E+01	0.2412E+00
12	0.1018E+02	0.2201E+00
13	0.1063E+02	0.2038E+00
14	0.1204E+02	0.2013E+00
15	0.1313E+02	0.2010E+00
16	0.1344E+02	0.1979E+00
17	0.1479E+02	0.1922E+00
18	0.1609E+02	0.1896E+00
19	0.1660E+02	0.1872E+00
20	0.1796E+02	0.1851E+00
21	0.1826E+02	0.1858E+00
22	0.1964E+02	0.1888E+00
23	0.2089E+02	0.1868E+00
24	0.2217E+02	0.1849E+00
25	0.2306E+02	0.1865E+00
26	0.2349E+02	0.1879E+00
27	0.2362E+02	0.1863E+00
28	0.2418E+02	0.1892E+00
29	0.2532E+02	0.1895E+00
30	0.2624E+02	0.1890E+00
31	0.2673E+02	0.1882E+00
32	0.2689E+02	0.1879E+00
33	0.2754E+02	0.1860E+00
34	0.3292E+02	0.1834E+00

INPUT SPECTRUM CURVE NUMBER = 23

NUMBER OF DEFINITION POINTS = 34

DAMPING RATIO FOR THIS CURVE = 0.35322E-01

INPUT POINT	FREQUENCY (HZ)	INPUT SPECTRAL ACCELERATION
1	0.1315E+01	0.2655E+00
2	0.1587E+01	0.3394E+00
3	0.2801E+01	0.5022E+00
4	0.3430E+01	0.4359E+00
5	0.3601E+01	0.4302E+00
6	0.3898E+01	0.3991E+00
7	0.4259E+01	0.4969E+00
8	0.5689E+01	0.4371E+00
9	0.7468E+01	0.3165E+00
10	0.8071E+01	0.2442E+00
11	0.8307E+01	0.2378E+00
12	0.1018E+02	0.2189E+00
13	0.1063E+02	0.2026E+00
14	0.1204E+02	0.2007E+00
15	0.1313E+02	0.2002E+00
16	0.1344E+02	0.1973E+00
17	0.1479E+02	0.1920E+00
18	0.1609E+02	0.1897E+00
19	0.1660E+02	0.1872E+00
20	0.1796E+02	0.1852E+00

21	0.1826E+02	0.1859E+00
22	0.1964E+02	0.1888E+00
23	0.2089E+02	0.1868E+00
24	0.2217E+02	0.1850E+00
25	0.2306E+02	0.1865E+00
26	0.2349E+02	0.1878E+00
27	0.2362E+02	0.1882E+00
28	0.2418E+02	0.1890E+00
29	0.2532E+02	0.1894E+00
30	0.2624E+02	0.1888E+00
31	0.2673E+02	0.1881E+00
32	0.2689E+02	0.1878E+00
33	0.2754E+02	0.1860E+00
34	0.3292E+02	0.1834E+00

INPUT SPECTRUM CURVE NUMBER = 24

NUMBER OF DEFINITION POINTS = 34

DAMPING RATIO FOR THIS CURVE = 0.36512E-01

INPUT POINT	FREQUENCY (HZ)	INPUT SPECTRAL ACCELERATION
1	0.1315E+01	0.2615E+00
2	0.1587E+01	0.3366E+00
3	0.2801E+01	0.4928E+00
4	0.3430E+01	0.4283E+00
5	0.3601E+01	0.4226E+00
6	0.3898E+01	0.3934E+00
7	0.4259E+01	0.4906E+00
8	0.5689E+01	0.4332E+00
9	0.7468E+01	0.3123E+00
10	0.8071E+01	0.2409E+00
11	0.8307E+01	0.2356E+00
12	0.1018E+02	0.2182E+00
13	0.1063E+02	0.2019E+00
14	0.1204E+02	0.2002E+00
15	0.1313E+02	0.1997E+00
16	0.1344E+02	0.1969E+00
17	0.1479E+02	0.1919E+00
18	0.1609E+02	0.1897E+00
19	0.1660E+02	0.1872E+00
20	0.1796E+02	0.1853E+00
21	0.1826E+02	0.1860E+00
22	0.1964E+02	0.1887E+00
23	0.2089E+02	0.1868E+00
24	0.2217E+02	0.1851E+00
25	0.2306E+02	0.1865E+00
26	0.2349E+02	0.1878E+00
27	0.2362E+02	0.1881E+00
28	0.2418E+02	0.1889E+00
29	0.2532E+02	0.1893E+00
30	0.2624E+02	0.1888E+00
31	0.2673E+02	0.1880E+00
32	0.2689E+02	0.1877E+00
33	0.2754E+02	0.1860E+00
34	0.3292E+02	0.1834E+00

INPUT SPECTRUM CURVE NUMBER = 25

NUMBER OF DEFINITION POINTS = 34

DAMPING RATIO FOR THIS CURVE = 0.37098E-01

INPUT POINT	FREQUENCY (HZ)	INPUT SPECTRAL ACCELERATION
1	0.1315E+01	0.2625E+00
2	0.1587E+01	0.3352E+00
3	0.2801E+01	0.4883E+00
4	0.3430E+01	0.4247E+00
5	0.3601E+01	0.4196E+00
6	0.3898E+01	0.3906E+00
7	0.4259E+01	0.4876E+00
8	0.5689E+01	0.4314E+00
9	0.7468E+01	0.3103E+00
10	0.8071E+01	0.2394E+00
11	0.8307E+01	0.2346E+00
12	0.1018E+02	0.2178E+00
13	0.1063E+02	0.2015E+00
14	0.1204E+02	0.2000E+00
15	0.1313E+02	0.1995E+00
16	0.1344E+02	0.1967E+00
17	0.1479E+02	0.1918E+00
18	0.1609E+02	0.1898E+00
19	0.1660E+02	0.1872E+00
20	0.1796E+02	0.1853E+00
21	0.1826E+02	0.1860E+00
22	0.1964E+02	0.1887E+00
23	0.2089E+02	0.1868E+00
24	0.2217E+02	0.1851E+00
25	0.2306E+02	0.1865E+00
26	0.2349E+02	0.1878E+00
27	0.2362E+02	0.1880E+00
28	0.2418E+02	0.1889E+00
29	0.2532E+02	0.1893E+00
30	0.2624E+02	0.1887E+00
31	0.2673E+02	0.1880E+00
32	0.2689E+02	0.1877E+00
33	0.2754E+02	0.1860E+00

34	0.3292E+02	0.1835E+00

INPUT SPECTRUM CURVE NUMBER = 26

NUMBER OF DEFINITION POINTS = 34

DAMPING RATIO FOR THIS CURVE = 0.37275E-01

INPUT POINT	FREQUENCY (HZ)	INPUT SPECTRAL ACCELERATION
1	0.1315E+01	0.2622E+00
2	0.1587E+01	0.3348E+00
3	0.2801E+01	0.4869E+00
4	0.3430E+01	0.4235E+00
5	0.3601E+01	0.4187E+00
6	0.3898E+01	0.3897E+00
7	0.4259E+01	0.4867E+00
8	0.5689E+01	0.4308E+00
9	0.7468E+01	0.3097E+00
10	0.8071E+01	0.2389E+00
11	0.8307E+01	0.2342E+00
12	0.1018E+02	0.2177E+00
13	0.1063E+02	0.2014E+00
14	0.1204E+02	0.2000E+00
15	0.1313E+02	0.1994E+00
16	0.1344E+02	0.1967E+00
17	0.1479E+02	0.1918E+00
18	0.1609E+02	0.1898E+00
19	0.1660E+02	0.1873E+00
20	0.1796E+02	0.1853E+00
21	0.1826E+02	0.1860E+00
22	0.1964E+02	0.1886E+00
23	0.2089E+02	0.1868E+00
24	0.2217E+02	0.1851E+00
25	0.2306E+02	0.1865E+00
26	0.2349E+02	0.1877E+00
27	0.2362E+02	0.1880E+00
28	0.2418E+02	0.1889E+00
29	0.2532E+02	0.1892E+00
30	0.2624E+02	0.1887E+00
31	0.2673E+02	0.1880E+00
32	0.2689E+02	0.1877E+00
33	0.2754E+02	0.1860E+00
34	0.3292E+02	0.1835E+00

INPUT SPECTRUM CURVE NUMBER = 27

NUMBER OF DEFINITION POINTS = 34

DAMPING RATIO FOR THIS CURVE = 0.38031E-01

INPUT POINT	FREQUENCY (HZ)	INPUT SPECTRAL ACCELERATION
1	0.1315E+01	0.2610E+00
2	0.1587E+01	0.3330E+00
3	0.2801E+01	0.4814E+00
4	0.3430E+01	0.4190E+00
5	0.3601E+01	0.4149E+00
6	0.3898E+01	0.3862E+00
7	0.4259E+01	0.4830E+00
8	0.5689E+01	0.4284E+00
9	0.7468E+01	0.3073E+00
10	0.8071E+01	0.2369E+00
11	0.8307E+01	0.2329E+00
12	0.1018E+02	0.2172E+00
13	0.1063E+02	0.2009E+00
14	0.1204E+02	0.1998E+00
15	0.1313E+02	0.1991E+00
16	0.1344E+02	0.1965E+00
17	0.1479E+02	0.1917E+00
18	0.1609E+02	0.1898E+00
19	0.1660E+02	0.1873E+00
20	0.1796E+02	0.1854E+00
21	0.1826E+02	0.1860E+00
22	0.1964E+02	0.1886E+00
23	0.2089E+02	0.1868E+00
24	0.2217E+02	0.1852E+00
25	0.2306E+02	0.1865E+00
26	0.2349E+02	0.1877E+00
27	0.2362E+02	0.1880E+00
28	0.2418E+02	0.1888E+00
29	0.2532E+02	0.1892E+00
30	0.2624E+02	0.1887E+00
31	0.2673E+02	0.1880E+00
32	0.2689E+02	0.1876E+00
33	0.2754E+02	0.1860E+00
34	0.3292E+02	0.1835E+00

INPUT SPECTRUM CURVE NUMBER = 28

NUMBER OF DEFINITION POINTS = 34

DAMPING RATIO FOR THIS CURVE = 0.39581E-01

INPUT POINT	FREQUENCY (HZ)	INPUT SPECTRAL ACCELERATION
1	0.1315E+01	0.2584E+00
2	0.1587E+01	0.3294E+00

3	0.2801E+01	0.4704E+00
4	0.3430E+01	0.4099E+00
5	0.3601E+01	0.4073E+00
6	0.3898E+01	0.3796E+00
7	0.4259E+01	0.4755E+00
8	0.5689E+01	0.4234E+00
9	0.7468E+01	0.3023E+00
10	0.8071E+01	0.2329E+00
11	0.8307E+01	0.2303E+00
12	0.1018E+02	0.2163E+00
13	0.1063E+02	0.1999E+00
14	0.1204E+02	0.1993E+00
15	0.1313E+02	0.1986E+00
16	0.1344E+02	0.1961E+00
17	0.1479E+02	0.1916E+00
18	0.1609E+02	0.1899E+00
19	0.1660E+02	0.1873E+00
20	0.1796E+02	0.1854E+00
21	0.1826E+02	0.1861E+00
22	0.1964E+02	0.1885E+00
23	0.2089E+02	0.1868E+00
24	0.2217E+02	0.1853E+00
25	0.2306E+02	0.1865E+00
26	0.2349E+02	0.1876E+00
27	0.2362E+02	0.1879E+00
28	0.2418E+02	0.1887E+00
29	0.2532E+02	0.1891E+00
30	0.2624E+02	0.1885E+00
31	0.2673E+02	0.1879E+00
32	0.2689E+02	0.1876E+00
33	0.2754E+02	0.1860E+00
34	0.3292E+02	0.1835E+00

INPUT SPECTRUM CURVE NUMBER = 29

NUMBER OF DEFINITION POINTS = 34

DAMPING RATIO FOR THIS CURVE = 0.40837E-01

INPUT POINT	FREQUENCY (HZ)	INPUT SPECTRAL ACCELERATION
1	0.1315E+01	0.2564E+00
2	0.1587E+01	0.3266E+00
3	0.2801E+01	0.4620E+00
4	0.3430E+01	0.4028E+00
5	0.3601E+01	0.4013E+00
6	0.3898E+01	0.3776E+00
7	0.4259E+01	0.4697E+00
8	0.5689E+01	0.4195E+00
9	0.7468E+01	0.2985E+00
10	0.8071E+01	0.2299E+00
11	0.8307E+01	0.2282E+00
12	0.1018E+02	0.2155E+00
13	0.1063E+02	0.1992E+00
14	0.1204E+02	0.1990E+00
15	0.1313E+02	0.1981E+00
16	0.1344E+02	0.1958E+00
17	0.1479E+02	0.1915E+00
18	0.1609E+02	0.1900E+00
19	0.1660E+02	0.1873E+00
20	0.1796E+02	0.1855E+00
21	0.1826E+02	0.1861E+00
22	0.1964E+02	0.1884E+00
23	0.2089E+02	0.1867E+00
24	0.2217E+02	0.1853E+00
25	0.2306E+02	0.1865E+00
26	0.2349E+02	0.1876E+00
27	0.2362E+02	0.1879E+00
28	0.2418E+02	0.1886E+00
29	0.2532E+02	0.1890E+00
30	0.2624E+02	0.1885E+00
31	0.2673E+02	0.1878E+00
32	0.2689E+02	0.1875E+00
33	0.2754E+02	0.1860E+00
34	0.3292E+02	0.1835E+00

INPUT SPECTRUM CURVE NUMBER = 30

NUMBER OF DEFINITION POINTS = 34

DAMPING RATIO FOR THIS CURVE = 0.41519E-01

INPUT POINT	FREQUENCY (HZ)	INPUT SPECTRAL ACCELERATION
1	0.1315E+01	0.2553E+00
2	0.1587E+01	0.3250E+00
3	0.2801E+01	0.4576E+00
4	0.3430E+01	0.3992E+00
5	0.3601E+01	0.3982E+00
6	0.3898E+01	0.3766E+00
7	0.4259E+01	0.4666E+00
8	0.5689E+01	0.4173E+00
9	0.7468E+01	0.2965E+00
10	0.8071E+01	0.2283E+00
11	0.8307E+01	0.2271E+00
12	0.1018E+02	0.2151E+00
13	0.1063E+02	0.1988E+00
14	0.1204E+02	0.1988E+00
15	0.1313E+02	0.1979E+00

16	0.1344E+02	0.1957E+00
17	0.1479E+02	0.1914E+00
18	0.1609E+02	0.1900E+00
19	0.1660E+02	0.1874E+00
20	0.1796E+02	0.1855E+00
21	0.1826E+02	0.1861E+00
22	0.1964E+02	0.1884E+00
23	0.2089E+02	0.1867E+00
24	0.2217E+02	0.1854E+00
25	0.2306E+02	0.1865E+00
26	0.2349E+02	0.1875E+00
27	0.2362E+02	0.1878E+00
28	0.2418E+02	0.1885E+00
29	0.2532E+02	0.1890E+00
30	0.2624E+02	0.1884E+00
31	0.2673E+02	0.1877E+00
32	0.2689E+02	0.1875E+00
33	0.2754E+02	0.1860E+00
34	0.3292E+02	0.1835E+00

INPUT SPECTRUM CURVE NUMBER = 31

NUMBER OF DEFINITION POINTS = 34

DAMPING RATIO FOR THIS CURVE = 0.41730E-01

INPUT POINT	FREQUENCY (HZ)	INPUT SPECTRAL ACCELERATION
1	0.1315E+01	0.2549E+00
2	0.1587E+01	0.3246E+00
3	0.2801E+01	0.4563E+00
4	0.3430E+01	0.3982E+00
5	0.3601E+01	0.3972E+00
6	0.3898E+01	0.3762E+00
7	0.4259E+01	0.4657E+00
8	0.5689E+01	0.4167E+00
9	0.7468E+01	0.2959E+00
10	0.8071E+01	0.2278E+00
11	0.8307E+01	0.2268E+00
12	0.1018E+02	0.2150E+00
13	0.1063E+02	0.1987E+00
14	0.1204E+02	0.1988E+00
15	0.1313E+02	0.1978E+00
16	0.1344E+02	0.1957E+00
17	0.1479E+02	0.1914E+00
18	0.1609E+02	0.1900E+00
19	0.1660E+02	0.1874E+00
20	0.1796E+02	0.1855E+00
21	0.1826E+02	0.1862E+00
22	0.1964E+02	0.1884E+00
23	0.2089E+02	0.1867E+00
24	0.2217E+02	0.1854E+00
25	0.2306E+02	0.1865E+00
26	0.2349E+02	0.1875E+00
27	0.2362E+02	0.1878E+00
28	0.2418E+02	0.1885E+00
29	0.2532E+02	0.1890E+00
30	0.2624E+02	0.1884E+00
31	0.2673E+02	0.1877E+00
32	0.2689E+02	0.1875E+00
33	0.2754E+02	0.1860E+00
34	0.3292E+02	0.1835E+00

INPUT SPECTRUM CURVE NUMBER = 32

NUMBER OF DEFINITION POINTS = 34

DAMPING RATIO FOR THIS CURVE = 0.42150E-01

INPUT POINT	FREQUENCY (HZ)	INPUT SPECTRAL ACCELERATION
1	0.1315E+01	0.2542E+00
2	0.1587E+01	0.3236E+00
3	0.2801E+01	0.4536E+00
4	0.3430E+01	0.3962E+00
5	0.3601E+01	0.3953E+00
6	0.3898E+01	0.3756E+00
7	0.4259E+01	0.4638E+00
8	0.5689E+01	0.4153E+00
9	0.7468E+01	0.2947E+00
10	0.8071E+01	0.2268E+00
11	0.8307E+01	0.2262E+00
12	0.1018E+02	0.2148E+00
13	0.1063E+02	0.1985E+00
14	0.1204E+02	0.1987E+00
15	0.1313E+02	0.1977E+00
16	0.1344E+02	0.1956E+00
17	0.1479E+02	0.1914E+00
18	0.1609E+02	0.1900E+00
19	0.1660E+02	0.1874E+00
20	0.1796E+02	0.1855E+00
21	0.1826E+02	0.1862E+00
22	0.1964E+02	0.1884E+00
23	0.2089E+02	0.1867E+00
24	0.2217E+02	0.1854E+00
25	0.2306E+02	0.1865E+00
26	0.2349E+02	0.1875E+00
27	0.2362E+02	0.1878E+00
28	0.2418E+02	0.1885E+00

29	0.2532E+02	0.1890E+00
30	0.2624E+02	0.1884E+00
31	0.2673E+02	0.1877E+00
32	0.2689E+02	0.1874E+00
33	0.2754E+02	0.1860E+00
34	0.3292E+02	0.1835E+00

INPUT SPECTRUM CURVE NUMBER = 33

NUMBER OF DEFINITION POINTS = 34

DAMPING RATIO FOR THIS CURVE = 0.42637E-01

INPUT POINT	FREQUENCY (HZ)	INPUT SPECTRAL ACCELERATION
1	0.1315E+01	0.2535E+00
2	0.1587E+01	0.3226E+00
3	0.2801E+01	0.4506E+00
4	0.3430E+01	0.3939E+00
5	0.3601E+01	0.3931E+00
6	0.3898E+01	0.3748E+00
7	0.4259E+01	0.4617E+00
8	0.5689E+01	0.4136E+00
9	0.7468E+01	0.2935E+00
10	0.8071E+01	0.2257E+00
11	0.8307E+01	0.2254E+00
12	0.1018E+02	0.2145E+00
13	0.1063E+02	0.1983E+00
14	0.1204E+02	0.1986E+00
15	0.1313E+02	0.1976E+00
16	0.1344E+02	0.1955E+00
17	0.1479E+02	0.1913E+00
18	0.1609E+02	0.1900E+00
19	0.1660E+02	0.1874E+00
20	0.1796E+02	0.1856E+00
21	0.1826E+02	0.1862E+00
22	0.1964E+02	0.1883E+00
23	0.2089E+02	0.1867E+00
24	0.2217E+02	0.1854E+00
25	0.2306E+02	0.1865E+00
26	0.2349E+02	0.1875E+00
27	0.2362E+02	0.1878E+00
28	0.2418E+02	0.1885E+00
29	0.2532E+02	0.1889E+00
30	0.2624E+02	0.1884E+00
31	0.2673E+02	0.1877E+00
32	0.2689E+02	0.1874E+00
33	0.2754E+02	0.1860E+00
34	0.3292E+02	0.1836E+00

INPUT SPECTRUM CURVE NUMBER = 34

NUMBER OF DEFINITION POINTS = 34

DAMPING RATIO FOR THIS CURVE = 0.50000E-01

INPUT POINT	FREQUENCY (HZ)	INPUT SPECTRAL ACCELERATION
1	0.1315E+01	0.2420E+00
2	0.1587E+01	0.3069E+00
3	0.2801E+01	0.4104E+00
4	0.3430E+01	0.3625?+00
5	0.3601E+01	0.3622E+00
6	0.3898E+01	0.3635E+00
7	0.4259?+01	0.4326E+00
8	0.5689E+01	0.3914E+00
9	0.7468E+01	0.2744E+00
10	0.8071E+01	0.2127E+00
11	0.8307E+01	0.2205E+00
12	0.1018E+02	0.2104E+00
13	0.1063E+02	0.1980E+00
14	0.1204E+02	0.1973E+00
15	0.1313E+02	0.1958E+00
16	0.1344E+02	0.1942E+00
17	0.1479E+02	0.1908E+00
18	0.1609E+02	0.1901E+00
19	0.1660E+02	0.1875E+00
20	0.1796E+02	0.1858E+00
21	0.1826E+02	0.1863E+00
22	0.1964E+02	0.1880E+00
23	0.2089E+02	0.1867E+00
24	0.2217E+02	0.1857E+00
25	0.2306E+02	0.1864E+00
26	0.2349E+02	0.1872E+00
27	0.2362E+02	0.1874E+00
28	0.2418E+02	0.1880E+00
29	0.2532E+02	0.1885E+00
30	0.2624E+02	0.1879E+00
31	0.2673E+02	0.1873E+00
32	0.2689E+02	0.1871E+00
33	0.2754E+02	0.1860E+00
34	0.3292E+02	0.1837E+00

A COMPUTER PROGRAM FOR

COUPLED RESPONSE SPECTRUM ANALYSIS OF SECONDARY SYSTEMS

" C R E S T "

DEVELOPED BY

AJAYA KUMAR GUPTA
JING-WEN JAW ABHINAV GUPTA

NORTH CAROLINA STATE UNIVERSITY
RALEIGH, NORTH CAROLINA

REVISION-1.0

C O U P L E D F R E Q U E N C I E S A N D M O D E S H A P E S E X T R A C T I O N

NUMBER OF ITERATIONS TO BE APPLIED FOR COUPLED FREQUENCIES EXTRACTION NITER = 900

CONVERGENCE TOLERANCE FOR COUPLED FREQUENCIES TOL = 0.10000E-05

COUPLED MODE SHAPES (FOR PRIMARY MODE) MODE 1
FREQUENCY (HZ.) = 10.17803

MODAL DISP AT PRIMARY SYSTEM CONNETING DOF

DOF #	DISPLACEMENT
3041	0.1681E-04
3042	0.0000E+00
3043	0.4540E-02
3061	0.3292E-04
3063	0.1526E-01
3072	0.0000E+00
3081	0.4284E-04
3103	0.5492E-02
3121	0.5575E-04
3122	0.0000E+00
3123	0.7166E-01
3091	0.4532E-04
3092	0.0000E+00
3093	0.3403E-01

MODAL DISPLACEMENTS AT SECONDARY SYSTEM DOF

NODE	DX	DY	DZ	ROT-X	ROT-Y	ROT-Z
1	0.2097E-09	0.4413E-10	0.1451E-06	-0.8188E-11	-0.7718E-09	0.7145E-11
2	0.1814E-02	-5.4021E-05	0.1824E-02	-0.1163E-04	-0.7364E-03	0.8466E-05
3	0.9203E-02	0.6994E-04	0.2336E-01	-0.4756E-04	-0.2125E-02	0.1658E-04
4	0.9209E-02	0.2816E-03	0.9883E-01	-0.1142E-03	-0.3289E-02	-0.7716E-05
5	0.9211E-02	0.1492E-04	0.1437E+00	-0.1477E-03	-0.3353E-02	-0.9384E-04
9001	0.9231E-02	-0.5598E-04	0.1499E+00	-0.1556E-03	-0.3325E-02	-0.4194E-04
9002	0.9295E-02	-0.1189E-03	0.1542E+00	-0.1718E-03	-0.3292E-02	-0.4954E-04
6	0.9396E-02	-0.1452E-03	0.1555E+00	-0.1[illegible]E-03	-0.3259E-02	-0.5598E-04
7	0.9528E-02	-0.1451E-03	0.1551E+00	-0.2147E-03	-0.3224E-02	-0.5902E-04
9003	0.1109E-01	-0.1438E-03	0.1349E+00	-0.1036E-02	-0.2654E-02	0.1308E-04
9004	0.7516E-02	-0.1423E-03	0.7815E-01	-0.1915E-02	-0.2084E-02	0.1724E-03
9	0.2656E-03	-0.1408E-03	0.1024E-01	-0.1448E-02	-0.1514E-02	0.1776E-03
10	-0.8020E-03	-0.1405E-03	0.1822E-02	-0.1171E-02	-0.1415E-02	0.1583E-03
9005	-0.4801E-02	-0.1390E-03	-0.1346E-01	0.7498E-04	-0.9307E-03	0.1110E-03
9006	-0.8172E-02	-0.1375E-03	0.7440E-03	0.7537E-03	-0.4464E-03	0.1063E-03
11	-0.1111E-01	-0.1359E-03	0.2746E-01	0.8631E-03	0.3794E-04	0.6897E-04
12	-0.1170E-01	-0.1353E-03	0.3639E-01	0.7868E-03	0.2045E-03	0.3833E-04
9007	-0.1176E-01	-0.1199E-03	0.3772E-01	0.7504E-03	0.2386E-03	0.2604E-04
9008	-0.1179E-01	-0.9316E-04	0.3837E-01	0.7133E-03	0.2814E-03	0.1301E-04
13	-0.1180E-01	-0.6121E-04	0.3815E-01	0.6827E-03	0.3290E-03	-0.7087E-06
14	-0.1180E-01	-0.9739E-04	0.3720E-01	0.6454E-03	0.3662E-03	-0.1168E-04
15	-0.1180E-01	-0.2415E-03	0.3475E-01	0.5641E-03	0.4535E-03	-0.3733E-04
16	-0.1180E-01	-0.1121E-02	0.2697E-01	0.3751E-03	0.6576E-03	-0.8071E-04
17	-0.1102E-01	-0.1725E-02	0.2513E-01	0.3327E-03	0.7322E-03	-0.8312E-04
18	-0.7205E-02	-0.3600E-02	0.2131E-01	0.2440E-03	0.8236E-03	-0.1015E-03
19	-0.1079E-02	-0.5607E-02	0.1519E-01	0.1094E-03	0.9381E-03	-0.1185E-03
20	0.1783E-01	-0.6195E-02	-0.3735E-02	-0.3017E-03	0.1073E-02	-0.1084E-03
21	0.2094E-01	-0.5478E-02	-0.8093E-02	-0.4549E-03	0.1067E-02	-0.5101E-04
9009	0.1920E-01	-0.5501E-02	-0.2577E-01	-0.1311E-03	0.9421E-03	0.1381E-03
9010	0.1087E-01	-0.5544E-02	-0.1135E-01	0.7441E-03	0.8170E-03	0.2514E-03
22	0.1544E-02	-0.5606E-02	0.1736E-01	0.3638E-03	0.6819E-03	0.1752E-03
23	0.2350E-03	-0.5621E-02	0.1923E-01	0.6591E-04	0.6054E-03	0.1301E-03
24	-0.1181E-02	-0.5658E-02	0.1570E-01	-0.4678E-03	0.5143E-03	0.4938E-04
9011	-0.1150E-02	-0.5741E-02	-0.8164E-02	-0.7246E-03	0.5101E-03	-0.3473E-04
9012	0.6556E-03	-0.5838E-02	-0.2085E-01	0.1050E-03	0.4060E-03	-0.7462E-04
25	0.3844E-02	-0.5948E-02	-0.1466E-02	0.9061E-03	0.3018E-03	-0.1157E-03
26	0.4986E-02	-0.5982E-02	0.7519E-02	0.9581E-03	0.2721E-03	-0.1235E-05
9013	0.8637E-02	-0.6116E-02	0.3249E-01	0.1854E-03	0.1616E-03	-0.5164E-04
9014	0.7173E-02	-0.6265E-02	0.1725E-01	-0.8808E-03	0.5107E-04	0.1484E-03
27	-0.9554E-03	-0.6428E-02	-0.4555E-02	0.2427E-03	-0.5947E-04	0.2693E-03
28	-0.4442E-02	-0.6492E-02	0.6688E-02	0.1567E-02	-0.1008E-03	0.2475E-03
29	-0.8455E-02	-0.6597E-02	0.5633E-01	0.3067E-02	-0.1632E-05	0.1378E-03

9015	-0.8141E-02	-0.6804E-02	0.1606E+00	0.1660E-02	-0.2798E-03	-0.1585E-03
9016	0.9089E-03	-0.7026E-02	0.1532E+00	-0.1954E-02	-0.3963E-03	-0.2526E-03
30	0.7481E-02	-0.7262E-02	0.5804E-01	-0.2022E-02	-0.5128E-03	-0.8177E-04
31	0.7559E-02	-0.7268E-02	0.5604E-01	-0.1931E-02	-0.5159E-03	-0.7599E-04
32	0.7145E-02	-0.5535E-02	0.5152E-01	-0.1411E-02	-0.5276E-03	-0.4856E-04
35	0.5772E-02	-0.2576E-02	0.5016E-01	-0.9112E-03	-0.5369E-03	-0.3070E-04
37	0.1252E-02	0.2682E-02	0.5012E-01	-0.5010E-03	-0.5238E-03	0.1391E-04
9017	-0.1008E-01	0.1157E-01	0.4986E-01	-0.4391E-04	-0.5659E-04	0.1852E-03
9018	-0.2302E-02	0.5518E-02	0.4954E-01	0.4139E-03	0.4211E-03	0.3565E-03
38	0.4517E-02	-0.1309E-01	0.4917E-01	0.6687E-03	-0.3035E-03	0.5274E-03
39	-0.1528E-02	-0.2006E-01	0.4904E-01	0.6617E-03	-0.9062E-03	0.5827E-03
9019	-0.5160E-01	-0.3694E-01	0.4852E-01	0.2119E-03	-0.1420E-02	0.7629E-03
40	-0.7082E-01	-0.3108E-01	0.4794E-01	-0.5452E-03	0.5358E-03	0.9431E-03
41	-0.2880E-01	-0.8743E-02	0.4739E-01	-0.8631E-03	0.2249E-02	0.1099E-02
43	-0.1783E-01	-0.1308E-02	0.3820E-01	-0.8510E-03	0.2256E-02	0.1123E-02
44	-0.1782E-01	0.3147E-03	0.3488E-01	-0.8456E-03	0.2146E-02	0.1123E-02
45	-0.1782E-01	0.4603E-02	0.2723E-01	-0.8312E-03	0.1597E-02	0.1113E-02
9020	-0.1776E-01	0.3029E-01	0.4176E-01	-0.7234E-03	-0.1915E-02	0.5310E-03
46	-0.1770E-01	0.2955E-01	0.1014E+00	-0.6157E-03	-0.1620E-02	-0.6323E-03
47	-0.1769E-01	0.2744E-01	0.1059E+00	-0.6044E-03	-0.1380E-02	-0.7691E-03
91	-0.1540E-01	0.2745E-01	0.1041E+00	-0.6171E-03	-0.1280E-02	-0.7464E-03
92	-0.7947E-02	0.2749E-01	0.9737E-01	-0.4916E-03	-0.5573E-03	-0.5762E-03
93	-0.7044E-02	0.2842E-01	0.9597E-01	-0.2346E-04	-0.1186E-03	-0.4774E-03
94	-0.7170E-02	0.2822E-01	0.9596E-01	0.1923E-03	0.3935E-04	-0.4090E-03
95	-0.6366E-02	0.2633E-01	0.9594E-01	0.6167E-03	0.2796E-03	-0.3035E-03
96	-0.4372E-02	0.2204E-01	0.9592E-01	0.1141E-02	0.5114E-03	-0.1980E-03
97	-0.4242E-02	0.2176E-01	0.9590E-01	0.1169E-02	0.5227E-03	-0.1928E-03
98	-0.1924E-02	0.1567E-01	0.8848E-01	0.2363E-02	0.9423E-03	-0.6746E-05
100	-0.1808E-02	0.1569E-01	0.7687E-01	0.2688E-02	0.1194E-02	0.5187E-04
101	-0.1595E-02	0.1569E-01	0.6850E-01	0.2798E-02	0.1362E-02	0.8478E-04
102	-0.1217E-02	0.1570E-01	0.5742E-01	0.2959E-02	0.1569E-02	0.1131E-03
113	0.6569E-02	0.1045E-02	0.6853E-01	0.1953E-02	0.1351E-02	0.1412E-03
114	0.1226E-01	-0.5928E-02	0.6856E-01	0.1418E-02	0.1322E-02	0.1937E-03
115	0.1779E-01	-0.1116E-01	0.6858E-01	0.1151E-02	0.1278E-02	0.2462E-03
116	0.2556E-01	-0.1832E-01	0.6860E-01	0.1108E-02	0.1204E-02	0.3234E-03
118	0.2739E-01	-0.2165E-01	0.7235E-01	0.1881E-02	0.1133E-02	0.3802E-03
9023	0.1374E-01	-0.2147E-01	0.1342E+00	0.1349E-02	0.6615E-03	0.5295E-03
120	-0.4921E-04	-0.2126E-01	0.1259E+00	-0.1685E-02	0.1901E-03	0.3807E-03
122	-0.5119E-03	-0.1685E-01	0.1217E+00	-0.2001E-02	0.1303E-03	0.3238E-03
124	-0.6251E-04	-0.8375E-02	0.1217E+00	-0.1847E-02	0.8484E-04	0.2566E-03
125	0.4177E-03	0.1930E-02	0.1216E+00	0.3365E-03	0.2605E-04	0.9652E-04
127	0.5923E-03	-0.5419E-03	0.1177E+00	0.2536E-02	0.1615E-04	0.3493E-04
129	-0.3224E-03	-0.3198E-03	0.6806E-02	0.3157E-02	0.9524E-05	-0.3780E-04
9024	-0.3696E-03	-0.1599E-03	-0.1135E-01	-0.4823E-03	0.4762E-05	0.2191E-04
130	-0.4077E-10	-0.3497E-08	-0.1660E-08	-0.1911E-09	0.2704E-12	0.5389E-11
48	-0.1768E-01	0.2483E-01	0.1100E+00	-0.5387E-03	-0.1246E-02	-0.9261E-03
49	-0.1767E-01	0.1964E-01	0.1155E+00	-0.4292E-03	-0.9071E-03	-0.1085E-02
50	-0.1765E-01	0.1398E-01	0.1190E+00	-0.3197E-03	-0.4777E-03	-0.1101E-02
51	-0.1765E-01	0.1231E-01	0.1197E+00	-0.2869E-03	-0.3418E-03	-0.1075E-02
52	-0.1763E-01	0.6762E-02	0.1202E+00	-0.1665E-03	0.1762E-03	-0.8603E-03
53	-0.1755E-01	-0.5002E-03	0.9069E-01	0.3645E-03	0.2098E-02	0.1224E-03
54	-0.1741E-01	0.1036E-01	0.1748E-02	0.1147E-02	0.2126E-02	0.2109E-03
55	-0.1741E-01	0.1051E-01	0.1664E-03	0.1164E-02	0.2081E-02	0.1959E-03
56	-0.1127E-01	0.6172E-02	-0.6726E-02	0.1350E-02	0.1310E-02	-0.2140E-04
57	-0.8503E-02	0.3091E-02	-0.6730E-02	0.1394E-02	0.1105E-02	-0.8747E-04
58	-0.6519E-02	0.2636E-03	-0.6732E-02	0.1426E-02	0.9190E-03	-0.1462E-03
59	-0.4194E-02	-0.4139E-02	-0.6735E-02	0.1503E-02	0.6746E-03	-0.2343E-03
103	-0.4187E-02	-0.2458E-02	-0.4802E-02	0.1593E-02	0.1398E-03	-0.8954E-03
104	-0.4158E-02	0.1236E-01	-0.8246E-02	0.1992E-02	-0.6396E-03	-0.1800E-02
105	-0.4144E-02	0.1741E-01	-0.1009E-01	0.2119E-02	-0.5505E-03	-0.1508E-02
106	-0.4134E-02	0.2132E-01	-0.1146E-01	0.2246E-02	-0.3573E-03	-0.1105E-02
107	-0.4097E-02	0.2856E-01	-0.1035E-01	0.2712E-02	0.5877E-03	-0.4417E-03
109	-0.3029E-02	0.2507E-01	-0.9359E-02	0.2803E-02	0.7232E-03	-0.5371E-03
111	-0.9454E-03	0.1570E-01	-0.9359E-02	0.2707E-02	0.3579E-03	-0.7232E-03
112	-0.6578E-03	0.1139E-01	-0.9358E-02	0.2597E-02	-0.8559E-05	-0.8013E-03
60	-0.2535E-02	-0.8747E-02	-0.6738E-02	0.1571E-02	0.4804E-03	-0.3086E-03
61	-0.1390E-02	-0.1356E-01	-0.6740E-02	0.1640E-02	0.3314E-03	-0.3829E-03
62	-0.1313E-02	-0.1397E-01	-0.6740E-02	0.1646E-02	0.3210E-03	-0.3690E-03
63	-0.6793E-03	-0.1865E-01	-0.6375E-02	0.1847E-02	0.2249E-04	-0.5382E-03
64	-0.7234E-03	-0.1189E-01	-0.7071E-02	0.2192E-02	-0.1216E-03	-0.7186E-03
65	-0.7432E-03	-0.7908E-02	-0.7777E-02	0.2349E-02	-0.1489E-03	-0.7861E-03
131	0.1803E-02	-0.7909E-02	-0.1177E-03	0.2359E-02	-0.1489E-03	-0.7875E-03
132	0.4379E-02	-0.7912E-02	0.7587E-02	0.2366E-02	-0.1489E-03	-0.7908E-03
66	-0.7570E-03	-0.3786E-02	-0.8560E-02	0.2445E-02	-0.1412E-03	-0.8343E-03
67	-0.7687E-03	-0.1925E-03	-0.9113E-02	0.2526E-02	-0.9818E-04	-0.8323E-03
68	-0.7769E-03	0.2298E-02	-0.9358E-02	0.2584E-02	-0.4792E-04	-0.8071E-03
69	-0.7837E-03	0.4684E-02	-0.9451E-02	0.2635E-02	0.3188E-05	-0.7645E-03
70	-0.7888E-03	0.6375E-02	-0.9407E-02	0.2674E-02	0.5185E-04	-0.7210E-03
71	-0.8001E-03	0.9713E-02	-0.8851E-02	0.2759E-02	0.1912E-03	-0.5893E-03
133	0.1107E-02	0.9715E-02	0.1421E-03	0.2770E-02	0.1912E-03	-0.5884E-03
134	0.3024E-02	0.9719E-02	0.9188E-02	0.2778E-02	0.1912E-03	-0.5893E-03
72	-0.8065E-03	0.1231E-01	-0.7491E-02	0.2784E-02	0.3826E-03	-0.4540E-03
73	-0.8348E-03	0.1688E-01	0.1612E-01	0.2893E-02	0.1954E-02	-0.4359E-05
74	-0.8379E-03	0.1684E-01	0.2143E-01	0.2906E-02	0.2147E-02	0.2934E-04
75	-0.8441E-03	0.1654E-01	0.3288E-01	0.2930E-02	0.2233E-02	0.8323E-04
76	-0.8499E-03	0.1601E-01	0.4377E-01	0.2955E-02	0.1939E-02	0.1160E-03
77	-0.8529E-03	0.1570E-01	0.4843E-01	0.2967E-02	0.1656E-02	0.1235E-03
78	-0.8564E-03	0.1514E-01	0.5435E-01	0.2845E-02	0.1302E-02	0.1526E-03
9021	-0.8811E-03	0.8391E-02	0.5979E-01	0.1972E-02	-0.7657E-03	0.3020E-03
79	-0.9050E-03	-0.1271E-02	0.2289E-01	0.1099E-02	-0.1496E-02	0.3564E-03
80	-0.9118E-03	-0.5124E-02	0.7383E-02	0.7668E-03	-0.1286E-02	0.3461E-03
81	-0.9160E-03	-0.6049E-02	0.4025E-02	0.6849E-03	-0.1188E-02	0.3393E-03
82	0.7414E-02	-0.5217E-02	0.1696E-03	0.4760E-03	-0.7081E-03	0.3298E-03
9022	0.8340E-02	0.8122E-03	0.1178E-03	0.4552E-04	0.1263E-03	0.1973E-03
83	0.1760E-02	0.1147E-04	0.6624E-04	-0.3279E-04	0.2531E-03	0.6472E-04
84	0.1187E-02	-0.5595E-04	0.6157E-04	-0.1900E-04	0.2273E-03	0.5265E-04
85	0.8182E-03	-0.8237E-04	0.5823E-04	-0.6939E-05	0.2051E-03	0.4403E-04
86	0.1360E-04	-0.1909E-05	0.2414E-03	0.5864E-04	0.4001E-04	0.3855E-05
87	0.7736E-09	0.4441E-09	0.1666E-08	0.8649E-10	-0.2331E-10	-0.6112E-11

COUPLED MODE SHAPES (FOR PRIMARY MODE) MODE 2
FREQUENCY (HZ.) = 12.03604

MODAL DISP AT PRIMARY SYSTEM CONNETING DOF

DOF #	DISPLACEMENT
3041	0.6579E-02
3042	0.0000E+00
3043	-0.4505E-05
3061	0.1826E-01
3063	-0.1514E-04
3072	0.0000E+00
3081	0.3201E-01
3103	-0.5450E-04
3121	0.7016E-01
3122	0.0000E+00
3123	-0.7112E-04
3091	0.3808E-01
3092	0.0000E+00
3093	-0.3377E-04

MODAL DISPLACEMENTS AT SECONDARY SYSTEM DOF

NODE	DX	DY	DZ	ROT-X	ROT-Y	ROT-Z
1	0.2323E-09	-0.2186E-10	-0.6648E-10	-0.1991E-10	0.1442E-10	-0.2434E-10
2	-0.4575E-04	-0.1052E-03	-0.4816E-04	-0.1888E-04	0.2254E-04	-0.2469E-04
3	-0.3106E-03	-0.1044E-02	-0.8968E-03	-0.6688E-04	0.9507E-04	-0.7515E-04
4	-0.3034E-03	-0.4094E-02	-0.4661E-02	-0.1588E-03	0.1725E-03	-0.1531E-03
5	-0.2993E-03	-0.6415E-02	-0.7016E-02	-0.2045E-03	0.1721E-03	-0.1964E-03
9001	-0.1963E-03	-0.6795E-02	-0.7442E-02	-0.2110E-03	0.1676E-03	-0.2097E-03
9002	0.1024E-03	-0.7092E-02	-0.7965E-02	-0.2174E-03	0.1630E-03	-0.2226E-03
6	0.5331E-03	-0.7206E-02	-0.8462E-02	-0.2234E-03	0.1578E-03	-0.2339E-03
7	0.1069E-02	-0.7206E-02	-0.8972E-02	-0.2271E-03	0.1515E-03	-0.2395E-03
9003	0.8998E-02	-0.7198E-02	-0.1564E-01	-0.6426E-04	0.4732E-04	-0.1245E-03
9004	0.8196E-02	-0.7183E-02	-0.1185E-01	0.2521E-03	-0.5681E-04	0.1593E-03
9	0.2917E-03	-0.7162E-02	-0.1743E-02	0.1822E-03	-0.1610E-03	0.1927E-03
10	-0.8304E-03	-0.7157E-02	-0.8138E-03	0.1008E-03	-0.1790E-03	0.1595E-03
9005	-0.3461E-02	-0.7127E-02	-0.3126E-02	-0.1912E-03	-0.2675E-03	0.1558E-04
9006	-0.2898E-02	-0.7091E-02	-0.9812E-02	-0.1923E-03	-0.3560E-03	-0.2061E-04
11	-0.4534E-02	-0.7052E-02	-0.1364E-01	-0.6483E-04	-0.4444E-03	0.1757E-03
12	-0.7109E-02	-0.7037E-02	-0.1433E-01	-0.3352E-04	-0.4749E-03	0.3137E-03
9007	-0.7745E-02	-0.6858E-02	-0.1415E-01	-0.2805E-04	-0.4808E-03	0.3672E-03
9008	-0.8286E-02	-0.6309E-02	-0.1352E-01	-0.2435E-04	-0.4869E-03	0.4170E-03
13	-0.8505E-02	-0.5473E-02	-0.1261E-01	-0.2246E-04	-0.4915E-03	0.4575E-03
14	-0.8504E-02	-0.4163E-02	-0.1125E-01	-0.2057E-04	-0.4928E-03	0.4771E-03
15	-0.8501E-02	-0.1238E-02	-0.8297E-02	-0.1646E-04	-0.4850E-03	0.4721E-03
16	-0.8494E-02	0.4566E-02	-0.2008E-02	-0.6909E-05	-0.3932E-03	0.3427E-03
17	-0.8862E-02	0.5399E-02	-0.1036E-02	0.2344E-05	-0.3331E-03	0.2771E-03
18	-0.1032E-01	0.6494E-02	0.4094E-03	0.2276E-05	-0.2572E-03	0.1662E-03
19	-0.1175E-01	0.6991E-02	0.1854E-02	0.2137E-04	-0.1619E-03	-0.9850E-05
20	-0.1317E-01	0.6340E-03	0.3300E-02	0.1453E-03	-0.2913E-04	-0.5490E-03
21	-0.1067E-01	-0.1510E-02	0.4152E-02	0.2410E-03	-0.1608E-04	-0.7519E-03
9009	0.2179E-01	-0.1501E-02	0.1416E-01	0.1215E-03	-0.1734E-04	-0.5643E-03
9010	0.2426E-01	-0.1488E-02	0.9691E-02	-0.3173E-03	-0.1861E-04	0.4065E-03
22	0.3760E-02	-0.1471E-02	-0.5074E-02	-0.2848E-03	-0.1987E-04	0.2693E-03
23	0.2614E-02	-0.1467E-02	-0.7092E-02	-0.1846E-03	-0.2015E-04	-0.2198E-04
24	0.7289E-02	-0.1458E-02	-0.8397E-02	0.2300E-04	-0.2065E-04	-0.4663E-03
9011	0.2317E-01	-0.1437E-02	-0.2640E-02	0.2615E-03	-0.2170E-04	-0.2407E-03
9012	0.1591E-01	-0.1413E-02	0.5161E-02	0.1415E-03	-0.3275E-04	0.6694E-03
25	-0.1464E-01	-0.1386E-02	0.5013E-02	-0.1443E-03	-0.2380E-04	0.9473E-03
26	-0.2309E-01	-0.1378E-02	0.3305E-02	-0.2101E-03	-0.2410E-04	0.8091E-03
9013	-0.3609E-01	-0.1346E-02	-0.5168E-02	-0.1694E-03	-0.2522E-04	-0.1864E-03
9014	-0.1199E-01	-0.1311E-02	-0.7141E-02	0.8790E-04	-0.2633E-04	-0.1000E-02
27	0.2076E-01	-0.1273E-02	-0.1710E-02	0.1260E-03	-0.2745E-04	-0.6056E-03
28	0.2591E-01	-0.1258E-02	-0.7845E-03	-0.5954E-05	-0.2786E-04	-0.1529E-03
29	0.2222E-01	-0.1234E-02	-0.3153E-02	-0.2048E-03	-0.2849E-04	0.4786E-03
9015	-0.4128E-02	-0.1186E-02	-0.1250E-01	-0.2168E-03	-0.2967E-04	0.6642E-03
9016	-0.1542E-01	-0.1136E-02	-0.1614E-01	0.3329E-04	-0.3044E-04	-0.1283E-03
30	0.4129E-03	-0.1062E-02	-0.1293E-01	0.4490E-04	-0.3202E-04	-0.5088E-03
31	0.9218E-03	-0.1080E-02	-0.1288E-01	0.3763E-04	-0.3205E-04	-0.5023E-03
32	0.2174E-02	-0.1085E-02	-0.1284E-01	-0.4364E-05	-0.3749E-04	-0.4614E-03
35	0.2556E-02	-0.1011E-02	-0.1286E-01	-0.3341E-04	-0.5119E-04	-0.4218E-03
37	0.1985E-02	-0.7446E-03	-0.1285E-01	0.7959E-05	-0.9727E-04	-0.3153E-03
9017	-0.4739E-02	-0.5298E-02	-0.1282E-01	0.1930E-03	-0.2944E-03	0.9332E-04
9018	-0.1327E-01	-0.9373E-02	-0.1277E-01	0.1109E-04	-0.1304E-03	0.5020E-03
38	-0.7204E-02	-0.5149E-02	-0.1271E-01	-0.2531E-03	0.6011E-03	0.9107E-03
39	0.7632E-03	-0.2210E-02	-0.1269E-01	-0.3069E-03	0.9455E-03	0.1042E-02
9019	0.4082E-01	0.7740E-02	-0.1261E-01	-0.1911E-03	0.1011E-02	0.1472E-02
40	0.5416E-01	0.7213E-02	-0.1251E-01	0.2484E-03	-0.3163E-03	0.1902E-02
41	0.3116E-01	-0.6193E-02	-0.1242E-01	0.6455E-03	-0.1009E-02	0.2273E-02
43	0.2738E-01	-0.7029E-04	-0.8743E-02	0.7468E-03	-0.8981E-03	0.2350E-02
44	0.2738E-01	0.3324E-02	-0.7452E-02	0.7695E-03	-0.8606E-03	0.2363E-02
45	0.2737E-01	0.1243E-01	-0.4354E-02	0.8296E-03	-0.7191E-03	0.2371E-02
9020	0.2727E-01	0.6621E-01	0.1752E-03	0.1279E-02	0.3089E-03	0.9475E-03
46	0.2714E-01	0.5402E-01	-0.1725E-01	0.1729E-02	0.8235E-03	-0.1828E-02
47	0.2713E-01	0.4808E-01	-0.1976E-01	0.1776E-02	0.8499E-03	-0.2123E-02
91	0.3360E-01	0.4808E-01	-0.1435E-01	0.1848E-02	0.8367E-03	-0.2229E-02
92	0.6236E-01	0.4808E-01	0.8380E-02	0.2078E-02	0.7419E-03	-0.2816E-02
93	0.7618E-01	0.4049E-01	0.1613E-01	0.1947E-02	0.6925E-03	-0.3127E-02
94	0.7836E-01	0.3427E-01	0.1614E-01	0.1880E-02	0.6443E-03	-0.3262E-02
95	0.8138E-01	0.2514E-01	0.1616E-01	0.1752E-02	0.5500E-03	-0.3471E-02
96	0.8367E-01	0.1674E-01	0.1616E-01	0.1557E-02	0.5178E-03	-0.3679E-02
97	0.8399E-01	0.1634E-01	0.1616E-01	0.1545E-02	0.5199E-03	-0.3690E-02
98	0.7168E-01	0.1132E-01	0.1184E-01	0.9191E-03	0.7149E-03	-0.3873E-02
100	0.5414E-01	0.1130E-01	0.8306E-02	0.6691E-03	0.9095E-03	-0.3841E-02
101	0.4267E-01	0.1129E-01	0.6545E-02	0.5214E-03	0.1039E-02	-0.3741E-02
102	0.2874E-01	0.1128E-01	0.5019E-02	0.3046E-03	0.7022E-03	-0.3541E-02
113	0.5336E-01	0.7577E-02	0.6548E-02	0.7521E-03	0.2768E-02	-0.3266E-02

114	0.6771E-01	0.4026E-02	0.6551E-02	0.8913E-03	0.3794E-02	-0.2824E-02
115	0.8534E-01	0.6033E-04	0.6551E-02	0.9376E-03	0.4397E-02	-0.2382E-02
116	0.1145E+00	-0.5587E-02	0.6551E-02	0.8088E-03	0.4810E-02	-0.1731E-02
118	0.1287E+00	-0.7204E-02	0.7977E-02	0.5201E-03	0.4831E-02	-0.1260E-02
9023	0.1103E+00	-0.7256E-02	0.4704E-02	-0.6132E-03	0.4909E-02	0.2984E-02
120	-0.1927E-01	-0.7299E-02	-0.1704E-01	-0.6006E-03	0.4987E-02	0.4839E-02
122	-0.1856E-01	-0.6225E-02	-0.1824E-01	-0.4235E-03	0.5071E-02	0.4441E-02
124	0.3141E-02	-0.4631E-02	-0.1824E-01	-0.3536E-03	0.5226E-02	0.3994E-02
125	0.5733E-01	-0.1004E-02	-0.1824E-01	-0.4255E-03	0.5280E-02	0.2924E-02
127	0.7487E-01	0.6431E-04	-0.1706E-01	-0.5796E-03	0.4955E-02	0.2429E-02
129	0.9201E-01	0.3795E-04	-0.7362E-03	-0.4014E-03	0.2921E-04	-0.1605E-02
9024	0.9930E-01	0.1898E-04	0.1513E-02	0.6648E-04	0.1461E-02	-0.3292E-02
130	0.2161E-08	0.4150E-09	0.2191E-09	0.2518E-10	0.8296E-10	-0.4430E-09
48	0.2711E-01	0.4159E-01	-0.2241E-01	0.1611E-02	0.8762E-03	-0.2181E-02
49	0.2707E-01	0.3049E-01	-0.2682E-01	0.1335E-02	0.8405E-03	-0.2232E-02
50	0.2703E-01	0.1927E-01	-0.3081E-01	0.1060E-02	0.7313E-03	-0.2185E-02
51	0.2701E-01	0.1599E-01	-0.3189E-01	0.9769E-03	0.6892E-03	-0.2143E-02
52	0.2696E-01	0.4722E-02	-0.3522E-01	0.6739E-03	0.5026E-03	-0.1882E-02
53	0.2672E-01	-0.2106E-01	-0.3562E-01	-0.6628E-03	-0.4919E-03	-0.1867E-03
54	0.2632E-01	0.1308E-01	-0.1438E-01	-0.2633E-02	-0.1200SE-02	0.1858E-02
55	0.2631E-01	0.1449E-01	0.7584E-03	-0.2675E-02	-0.1197E-02	0.1886E-02
56	0.2209E-01	0.3306E-01	0.5159E-02	-0.3056E-02	-0.8914E-03	0.2201E-02
57	0.2011E-01	0.4004E-01	0.5161E-02	-0.3124E-02	-0.7029E-03	0.2277E-02
58	0.1898E-01	0.4636E-01	0.5163E-02	-0.3172E-02	-0.5153E-03	0.2345E-02
59	0.1788E-01	0.5599E-01	0.5165E-02	-0.3222E-02	-0.2883E-03	0.2446E-02
103	0.1790E-01	0.4586E-01	0.4522E-02	-0.3220E-02	0.5629E-04	0.3286E-02
104	0.1794E-01	0.7773E-02	0.8002E-02	-0.3209E-02	0.3967E-03	0.4210E-02
105	0.1796E-01	-0.4174E-02	0.8891E-02	-0.3206E-02	0.1662E-03	0.3673E-02
106	0.1797E-01	-0.1415E-01	0.8970E-02	-0.3202E-02	-0.1003E-01	0.2991E-02
107	0.1799E-01	-0.4051E-01	0.5827E-02	-0.3189E-02	-0.1548E-03	0.2162E-02
109	0.1791E-01	-0.3908E-01	0.5687E-02	-0.3161E-02	0.4020E-05	0.2451E-02
111	0.1805E-01	-0.2895E-01	0.5684E-02	-0.2745E-02	0.2135E-05	0.3006E-02
112	0.1801E-01	-0.2526E-01	0.5683E-02	-0.2430E-02	-0.9237E-04	0.3239E-02
60	0.1735E-01	0.6574E-01	0.5167E-02	-0.3248E-02	-0.1278E-03	0.2530E-02
61	0.1721E-01	0.7552E-01	0.5168E-02	-0.3249E-02	-0.2349E-04	0.2613E-02
62	0.1721E-01	0.7634E-01	0.5166E-02	-0.3247E-02	-0.1732E-04	0.2620E-02
63	0.1746E-01	0.7809E-01	0.5465E-02	-0.3130E-02	0.7844E-04	0.2862E-02
64	0.1752E-01	0.4448E-01	0.6193E-02	-0.2934E-02	0.3933E-04	0.3298E-02
65	0.1754E-01	0.2737E-01	0.6310E-02	-0.2845E-02	0.1864E-05	0.3557E-02
131	0.5905E-02	0.2738E-01	-0.2969E-02	-0.2869E-02	0.1864E-05	0.3569E-02
132	-0.5706E-02	0.2739E-01	-0.1239E-01	-0.2869E-02	0.1864E-05	0.3570E-02
66	0.1758E-01	0.9159E-02	0.6212E-02	-0.2663E-02	-0.4144E-04	0.3605E-02
67	0.1761E-01	-0.6080E-02	0.5957E-02	-0.2508E-02	-0.7842E-04	0.3460E-02
68	0.1764E-01	-0.1629E-01	0.5682E-02	-0.2398E-02	-0.1041E-03	0.3256E-02
69	0.1766E-01	-0.2576E-01	0.5322E-02	-0.2273E-02	-0.1332E-03	0.2973E-02
70	0.1768E-01	-0.3224E-01	0.4997E-02	-0.2179E-02	-0.1533E-03	0.2707E-02
71	0.1772E-01	-0.4419E-01	0.4122E-02	-0.1971E-02	-0.1922E-03	0.1957E-02
133	0.1126E-01	-0.4420E-01	-0.2300E-02	-0.1985E-02	-0.1922E-03	0.1966E-02
134	0.4907E-02	-0.4422E-01	-0.8819E-02	-0.1999E-02	-0.1922E-03	0.1958E-02
72	0.1780E-01	-0.5145E-01	0.3073E-02	-0.1712E-02	-0.2130E-03	0.9804E-03
73	0.1813E-01	-0.3309E-01	0.8746E-04	-0.5567E-03	0.5335E-04	-0.2302E-02
74	0.1817E-01	-0.2697E-01	0.2914E-03	-0.4292E-03	0.1201E-03	-0.2556E-02
75	0.1824E-01	-0.1297E-01	0.1245E-02	-0.1698E-03	0.2747E-03	-0.2981E-02
76	0.1830E-01	0.2861E-02	0.3041E-02	0.8942E-04	0.4585E-03	-0.3269E-02
77	0.1834E-01	0.1127E-01	0.4302E-02	0.2189E-03	0.5618E-03	-0.3399E-02
78	0.1834E-01	0.2422E-01	0.6342E-02	0.1540E-03	0.4576E-03	-0.3057E-02
9021	0.1834E-01	0.7676E-01	0.1014E-01	-0.3098E-03	-0.1455E-03	-0.6345E-03
79	0.1840E-01	0.6897E-01	0.1988E-02	-0.7736E-03	-0.3189E-03	0.8765E-03
80	0.1840E-01	0.5840E-01	-0.1079E-02	-0.9498E-03	-0.2210E-03	0.1007E-02
81	0.1840E-01	0.5568E-01	-0.1631E-02	-0.9934E-03	-0.1810E-03	0.1001E-02
82	0.1862E-01	0.4803E-01	-0.2067E-02	-0.1076E-02	0.1558E-04	0.9344E-03
9022	0.1292E-01	0.2096E-01	-0.2086E-02	-0.9269E-03	0.3831E-03	0.5706E-03
83	0.2292E-02	0.3435E-02	-0.2106E-02	-0.4235E-03	0.3490E-03	0.2071E-03
84	0.1504E-02	0.2505E-02	-0.2108E-02	-0.3730E-03	0.3187E-03	0.1740E-03
85	0.9865E-03	0.1913E-02	-0.2109E-02	-0.3366E-03	0.2942E-03	0.1503E-03
86	-0.7621E-04	0.6404E-04	-0.5603E-03	-0.1155E-03	0.1060E-03	0.3984E-04
87	0.5628E-09	0.2521E-10	0.6853E-09	-0.7803E-10	0.7015E-10	0.1739E-10

COUPLED MODE SHAPES (FOR PRIMARY MODE) MODE 3
FREQUENCY (HZ.) = 32.91754

MODAL DISP AT PRIMARY SYSTEM CONNETING DOF

DOF #	DISPLACEMENT
3041	0.3706E-01
3042	0.0000E+00
3043	0.4355E-05
3061	0.5596E-01
3063	0.1463E-04
3072	0.0000E+00
3081	0.4733E-01
3103	0.5268E-04
3121	-0.2647E-01
3122	0.0000E+00
3123	0.6874E-04
3091	0.3702E-01
3092	0.0000E+00
3093	0.3264E-04

MODAL DISPLACEMENTS AT SECONDARY SYSTEM DOF

MODE	DX	DY	DZ	ROT-X	ROT-Y	ROT-Z
1	-0.1208E-08	-0.3300E-09	-0.2217E-10	-0.6719E-11	0.1214E-09	-0.2279E-10
2	-0.2742E-03	-0.5926E-04	-0.2647E-03	0.3560E-05	0.9297E-04	-0.1751E-04
3	-0.1021E-02	-0.1288E-03	-0.2082E-02	0.6603E-04	0.1285E-03	0.1383E-04
4	-0.1059E-02	0.3810E-02	-0.5002E-02	0.2127E-03	0.9368E-04	0.3439E-03
5	-0.1076E-02	0.1029E-01	-0.6207E-02	0.2865E-03	0.9140E-04	0.6471E-03

9001	-0.1436E-02	0.1159E-01	-0.6231E-02	0.2974E-03	0.9342E-04	0.7435E-03
9002	-0.2536E-02	0.1267E-01	-0.5942E-02	0.3092E-03	0.9506E-04	0.8379E-03
6	-0.4203E-02	0.1311E-01	-0.5397E-02	0.3218E-03	0.9777E-04	0.9241E-03
7	-0.6352E-02	0.1311E-01	-0.4662E-02	0.3291E-03	0.1019E-03	0.9701E-03
9003	-0.4162E-01	0.1308E-01	0.6864E-02	0.2228E-03	0.1696E-03	0.5754E-03
9004	-0.3736E-01	0.1304E-01	0.8989E-02	-0.1111E-03	0.2377E-03	-0.7602E-03
9	-0.2005E-02	0.1297E-01	0.1637E-02	-0.2002E-03	0.3055E-03	-0.7400E-03
10	0.2033E-02	0.1296E-01	0.4614E-03	-0.1621E-03	0.3173E-03	-0.5336E-03
9005	0.6022E-02	0.1288E-01	-0.1261E-02	0.4177E-04	0.3749E-03	0.1926E-03
9006	-0.4026E-02	0.1279E-01	0.2109E-02	0.1508E-03	0.4326E-03	0.3301E-03
11	-0.6409E-02	0.1269E-01	0.6986E-02	0.1439E-03	0.4902E-03	-0.1432E-03
12	-0.5445E-02	0.1265E-01	0.8436E-02	0.1277E-03	0.5100E-03	-0.4177E-03
9007	-0.4568E-02	0.1240E-01	0.8414E-02	0.1235E-03	0.5140E-03	-0.5146E-03
9008	-0.3794E-02	0.1161E-01	0.7871E-02	0.1202E-03	0.5183E-03	-0.5978E-03
13	-0.3477E-02	0.1039E-01	0.6954E-02	0.1161E-03	0.5221E-03	-0.6550E-03
14	-0.3477E-02	0.8510E-02	0.5512E-02	0.1156E-03	0.5238E-03	-0.6696E-03
15	-0.3479E-02	0.4562E-02	0.2364E-02	0.1101E-03	0.5220E-03	-0.5807E-03
16	-0.3440E-02	-0.9478E-03	-0.4707E-02	0.9753E-04	0.4797E-03	-0.2296E-03
17	-0.2973E-02	-0.1510E-02	-0.5945E-02	0.8507E-04	0.4506E-03	-0.1219E-03
18	-0.8631E-03	-0.2189E-02	-0.8057E-02	0.1135E-03	0.4092E-03	0.3181E-04
19	0.1757E-02	-0.2262E-02	-0.1068E-01	0.1825E-03	0.3457E-03	0.2205E-03
20	0.6885E-02	-0.9430E-03	-0.1581E-01	0.5319E-03	0.2361E-03	0.5528E-03
21	0.5350E-02	-0.5952E-03	-0.1406E-01	0.6820E-03	0.2173E-03	0.5790E-03
9009	-0.1502E-01	-0.9774E-03	0.1488E-01	0.4979E-03	0.2312E-03	0.3075E-03
9010	-0.1536E-01	-0.9580E-03	0.1606E-01	-0.4306E-03	0.2452E-03	-0.2631E-03
22	-0.2343E-02	-0.9369E-03	-0.8631E-02	-0.5226E-03	0.2592E-03	-0.1943E-03
23	-0.1308E-02	-0.9322E-03	-0.1238E-01	-0.1463E-03	0.2622E-03	-0.3427E-04
24	-0.3220E-02	-0.9227E-03	-0.1487E-01	0.4293E-04	0.2679E-03	0.2300E-03
9011	-0.1292E-01	-0.9024E-03	-0.3443E-02	0.5341E-03	0.2795E-03	0.2333E-03
9012	-0.1447E-01	-0.8810E-03	0.1107E-01	0.3170E-03	0.2911E-03	-0.1609E-03
25	-0.3857E-02	-0.8586E-03	0.1335E-01	-0.3016E-03	0.3028E-03	-0.4012E-03
26	-0.4721E-04	-0.8520E-03	0.9685E-02	-0.4591E-03	0.3061E-03	-0.3919E-03
9013	0.9957E-02	-0.8268E-03	-0.9972E-02	-0.4814E-03	0.3184E-03	-0.1099E-03
9014	0.6973E-02	-0.8004E-03	-0.1721E-01	0.1187E-03	0.3308E-03	0.2381E-03
27	-0.2734E-02	-0.7730E-03	-0.5472E-02	0.3813E-03	0.3431E-03	0.2256E-03
28	-0.5015E-02	-0.7625E-03	-0.1256E-02	0.2193E-03	0.3477E-03	0..107E-03
29	-0.5337E-02	-0.7460E-03	-0.5674E-04	-0.6773E-04	0.3547E-03	-0.7087E-04
9015	0.3512E-03	-0.7144E-03	-0.6110E-02	-0.1569E-03	0.3677E-03	-0.1613E-03
9016	0.2970E-02	-0.6817E-03	-0.7825E-02	0.7660E-04	0.3807E-03	0.5389E-04
30	-0.1944E-02	-0.6481E-03	-0.3308E-02	0.7143E-04	0.3937E-03	0.2913E-03
31	-0.4237E-02	-0.6471E-03	-0.3236E-02	0.6376E-04	0.3941E-03	0.2957E-03
32	-0.4618E-02	-0.6820E-03	-0.3123E-02	0.1987E-04	0.3927E-03	0.3191E-03
35	-0.3937E-02	-0.6700E-03	-0.3114E-02	-0.1683E-04	0.3904E-03	0.3387E-03
37	-0.6600E-03	-0.4127E-03	-0.3114E-02	-0.2101E-04	0.3830E-03	0.3918E-03
9017	0.8989E-02	-0.1319E-02	-0.3097E-02	0.5360E-04	0.1497E-03	0.5954E-03
9018	0.7919E-02	-0.2700E-02	-0.3076E-02	0.1592E-04	-0.1695E-03	0.7989E-03
38	0.9724E-03	-0.1923E-02	-0.3052E-02	-0.6229E-04	-0.1251E-03	0.1003E-02
39	0.4248E-03	-0.1163E-02	-0.3044E-02	-0.8260E-04	0.3732E-04	0.1068E-02
9019	0.8701E-02	0.1663E-02	-0.3013E-02	-0.5390E-04	0.3197E-03	0.1282E-02
40	0.1613E-01	0.9791E-03	-0.2978E-02	0.1125E-03	0.5515E-04	0.1496E-02
41	0.1363E-01	-0.5421E-02	-0.2946E-02	0.3336E-03	-0.1697E-03	0.1681E-02
43	0.1297E-01	-0.4077E-03	-0.2288E-02	0.4126E-03	-0.1557E-03	0.1714E-02
44	0.1297E-01	0.2065E-02	-0.2062E-02	0.4305E-03	-0.1461E-03	0.1719E-02
45	0.1296E-01	0.8663E-02	-0.1552E-02	0.4771E-03	-0.1056E-03	0.1715E-02
9020	0.1292E-01	0.4730E-01	-0.3140E-02	0.8264E-03	0.1835E-03	0.6933E-03
46	0.1287E-01	0.4029E-01	-0.1082E-01	0.1176E-02	0.3425E-03	-0.1186E-02
47	0.1286E-01	0.3642E-01	-0.1187E-01	0.1212E-02	0.3562E-03	-0.1342E-02
91	0.1704E-01	0.3643E-01	-0.8171E-02	0.1266E-02	0.3336E-03	-0.1415E-02
92	0.3408E-01	0.3643E-01	0.7486E-02	0.1430E-02	0.1706E-03	-0.1594E-02
93	0.4064E-01	0.3125E-01	0.1280E-01	0.1330E-02	0.7391E-04	-0.1683E-02
94	0.4082E-01	0.2700E-01	0.1261E-01	0.1284E-02	0.3361E-04	-0.1727E-02
95	0.4083E-01	0.2072E-01	0.1282E-01	0.1219E-02	-0.2621E-04	-0.1795E-02
96	0.4056E-01	0.1480E-01	0.1283E-01	0.1120E-02	-0.3361E-04	-0.1863E-02
97	0.4055E-01	0.1452E-01	0.1283E-01	0.1113E-02	-0.3159E-04	-0.1866E-02
98	0.3344E-01	0.1074E-01	0.9408E-02	0.7936E-03	0.1396E-03	-0.1883E-02
100	0.2501E-01	0.1073E-01	0.6141E-02	0.6724E-03	0.2891E-03	-0.1811E-02
101	0.1966E-01	0.1073E-01	0.4242E-02	0.6052E-03	0.3887E-03	-0.1711E-02
102	0.1343E-01	0.1072E-01	0.2218E-02	0.4811E-03	0.2528E-03	-0.1523E-02
113	0.2430E-01	0.6493E-02	0.4245E-02	0.8401E-03	0.1283E-02	-0.1541E-02
114	0.3108E-01	0.2569E-02	0.4248E-02	0.9788E-03	0.1803E-02	-0.1383E-02
115	0.3948E-01	-0.1772E-02	0.4250E-02	0.1034E-02	0.2094E-02	-0.1224E-02
116	0.5312E-01	-0.8160E-02	0.4251E-02	0.9635E-03	0.2261E-02	-0.9913E-03
118	0.6041E-01	-0.1019E-01	0.6156E-02	0.7681E-03	0.2225E-02	-0.8083E-03
9023	0.5792E-01	-0.1023E-01	0.1274E-01	-0.3208E-03	0.1881E-02	0.1265E-02
120	-0.3352E-02	-0.1025E-01	-0.5550E-02	-0.7058E-03	0.1536E-02	0.2353E-02
122	-0.5083E-02	-0.8784E-02	-0.7071E-02	-0.6219E-03	0.1526E-02	0.2165E-02
124	0.1414E-02	-0.6265E-02	-0.7073E-02	-0.5735E-03	0.1571E-02	0.1946E-02
125	0.1787E-01	-0.9846E-03	-0.7075E-02	-0.4630E-03	0.1612E-02	0.1421E-02
127	0.2430E-01	-0.7304E-05	-0.6146E-02	-0.3865E-03	0.1508E-02	0.1188E-02
129	0.3500E-01	-0.4327E-05	-0.5045E-04	-0.9714E-04	0.8890E-03	-0.5433E-03
9024	0.1528E-01	-0.2165E-05	0.4293E-03	0.2119E-04	0.4445E-03	-0.1268E-02
130	0.4658E-09	-0.4734E-10	0.5696E-10	0.6834E-11	0.2524E-10	-0.1737E-09
48	0.1285E-01	0.3208E-01	-0.1303E-01	0.1091E-02	0.3919E-03	-0.1494E-02
49	0.1284E-01	0.2418E-01	-0.1509E-01	0.8876E-03	0.3980E-03	-0.1633E-02
50	0.1282E-01	0.1575E-01	-0.1701E-01	0.6846E-03	0.3550E-03	-0.1683E-02
51	0.1281E-01	0.1320E-01	-0.1754E-01	0.6217E-03	0.3360E-03	-0.1674E-02
52	0.1279E-01	0.4159E-02	-0.1917E-01	0.4006E-03	0.2447E-03	-0.1551E-02
53	0.1268E-01	-0.2200E-01	-0.1897E-01	-0.5438E-03	-0.2779E-03	-0.5922E-03
54	0.1250E-01	-0.2166E-01	0.1160E-03	-0.2035E-02	-0.6170E-03	0.4503E-03
55	0.1249E-01	-0.2131E-01	0.5802E-03	-0.2065E-02	-0.6134E-03	0.4611E-03
56	0.1041E-01	-0.1096E-01	0.2794E-02	-0.2333E-02	-0.4303E-03	0.5736E-03
57	0.9478E-02	-0.5638E-02	0.2796E-02	-0.2361E-02	-0.3335E-03	0.5911E-03
58	0.8918E-02	-0.8230E-03	0.2797E-02	-0.2413E-02	-0.2385E-03	0.6067E-03
59	0.8447E-01	0.6499E-02	0.2799E-02	-0.2445E-02	-0.1226E-03	0.6300E-03
103	0.8454E-02	0.5621E-02	0.2557E-02	-0.2419E-02	0.5017E-04	0.1061E-02
104	0.8482E-02	-0.9662E-02	0.4496E-02	-0.2313E-02	0.2216E-03	0.1405E-02
105	0.8490E-02	-0.1341E-01	0.5014E-02	-0.2279E-02	0.1088E-03	0.1053E-02
106	0.8495E-02	-0.1593E-01	0.5135E-02	-0.2244E-02	-0.2039E-04	0.6411E-03
107	0.8511E-02	-0.1918E-01	0.4085E-02	-0.2113E-02	-0.1069E-04	0.3062E-03
109	0.8589E-02	-0.1658E-01	0.4120E-02	-0.2078E-02	0.7360E-04	0.5471E-03
111	0.8647E-02	-0.9941E-02	0.4119E-02	-0.1800E-02	0.3178E-04	0.9932E-03

112	0.8845E-02	-0.7519E-02	0.4118E-02	-0.1599E-02	-0.5095E-04	0.1161E-02
60	0.8248E-02	0.1389E-01	0.2800E-02	-0.2455E-02	-0.3883E-04	0.6440E-03
61	0.8260E-02	0.2127E-01	0.2802E-02	-0.2442E-02	0.1840E-04	0.6580E-03
62	0.8268E-02	0.2188E-01	0.2802E-02	-0.2440E-02	0.2198E-04	0.6591E-03
63	0.8538E-02	0.2629E-01	0.3122E-02	-0.2308E-02	0.9071E-04	0.7378E-03
64	0.8562E-02	0.1911E-01	0.4074E-02	-0.2064E-02	0.6554E-04	0.9877E-03
65	0.8572E-02	0.1375E-01	0.4332E-02	-0.1952E-02	0.3071E-04	0.1176E-02
131	0.4703E-02	0.1375E-01	-0.2027E-02	-0.1965E-02	0.3071E-04	0.1182E-02
132	0.8648E-03	0.1376E-01	-0.8469E-02	-0.1976E-02	0.3071E-04	0.1181E-02
66	0.8598E-02	0.7530E-02	0.4181E-02	-0.1800E-02	-0.9322E-05	0.1258E-02
67	0.8620E-02	0.2108E-02	0.4272E-02	-0.1671E-02	-0.4041E-04	0.1247E-02
68	0.8635E-02	-0.1615E-02	0.4118E-02	-0.1579E-02	-0.6047E-04	0.1194E-02
69	0.8651E-02	-0.5126E-02	0.3899E-02	-0.1478E-02	-0.8214E-04	0.1108E-02
70	0.8662E-02	-0.7560E-02	0.3695E-02	-0.1403E-02	-0.9659E-04	0.1021E-02
71	0.8688E-02	-0.1213E-01	0.3136E-02	-0.1235E-02	-0.1228E-03	0.7567E-03
133	0.6177E-02	-0.1213E-01	-0.6874E-05	-0.1242E-02	-0.1228E-03	0.7608E-03
134	0.3726E-02	-0.1214E-01	-0.4956E-02	-0.1248E-02	-0.1228E-03	0.7558E-03
72	0.8733E-02	-0.1493E-01	0.2467E-02	-0.1037E-02	-0.1383E-03	0.3762E-03
73	0.8930E-02	-0.7414E-02	-0.7087E-04	-0.1598E-03	-0.3857E-04	-0.9321E-03
74	0.8952E-02	-0.4933E-02	-0.1386E-01	-0.6124E-04	-0.9626E-05	-0.1038E-02
75	0.8994E-02	0.7601E-03	-0.3137E-04	0.1361E-03	0.6046E-04	-0.1217E-02
76	0.9034E-02	0.7245E-02	0.4671E-03	0.3335E-03	0.1466E-03	-0.1355E-02
77	0.9053E-02	0.1072E-01	0.8881E-03	0.4321E-33	0.1961E-03	-0.1409E-02
78	0.9057E-02	0.1579E-01	0.1615E-02	0.4344E-03	0.1668E-03	-0.1124E-02
9021	0.9078E-02	0.2165E-01	0.3680E-02	0.4507E-03	-0.1199E-04	0.6133E-03
79	0.9091E-02	-0.1060E-01	0.2060E-02	0.4670E-03	-0.6850E-04	0.1408E-02
80	0.9093E-02	-0.2599E-01	0.1439E-02	0.4732E-03	-0.3757E-04	0.1387E-02
81	0.9093E-02	-0.2969E-01	0.1352E-02	0.4748E-03	-0.2454E-04	0.1360E-02
82	0.9036E-02	-0.3280E-01	0.1339E-02	0.5032E-03	0.4186E-04	0.1237E-02
9022	0.6014E-02	-0.1868E-01	0.1332E-02	0.6028E-03	0.1814E-03	0.7593E-03
83	0.9237E-03	-0.3598E-02	0.1324E-02	0.4967E-03	0.1770E-03	0.2815E-03
84	0.5203E-03	-0.2468E-02	0.1323E-02	0.4652E-03	0.1657E-03	0.2380E-03
85	0.2490E-03	-0.1707E-02	0.1323E-02	0.4403E-03	0.1565E-03	0.2069E-03
86	-0.1069E-03	0.1043E-03	0.4495E-03	0.2195E-03	0.7237E-04	0.5207E-04
87	0.2342E-09	-0.5026E-09	0.2941E-09	0.1630E-09	0.2489E-10	0.2250E-10

COUPLED MODE SHAPES (FOR SECONDARY MODE) MODE 4
FREQUENCY (HZ.) = 1.31452

MODAL DISP AT PRIMARY SYSTEM CONNETING DOF

DOF #	DISPLACEMENT
3041	0.3762E-06
3042	0.0000E+00
3043	0.1780E-06
3061	0.1096E-05
3063	0.5581E-06
3072	0.0000E+00
3081	0.1976E-05
3103	0.2154E-05
3121	0.4474E-05
3122	0.0000E+00
3123	0.2811E-05
3091	0.2372E-05
3092	0.0000E+00
3093	0.1335E-05

MODAL DISPLACEMENTS AT SECONDARY SYSTEM DOF

NODE	DX	DY	DZ	ROT-X	ROT-Y	ROT-Z
1	0.2094E-09	-0.5224E-09	-0.1785E-08	-0.4380E-09	-0.2161E-09	-0.2771E-09
2	0.5525E-0	-0.1694E-02	0.5365E-03	-0.4535E-03	-0.2556E-03	-0.2426E-03
3	0.3626E-02	-0.1347E-01	0.1040E-01	-0.1556E-02	-0.1204E-02	-0.6961E-03
4	0.3632E-02	-0.3908E-01	0.7872E-01	-0.3541E-02	-0.4273E-02	-0.1131E-02
5	0.3636E-02	-0.5447E-01	0.1503E+00	-0.4540E-02	-0.6533E-02	-0.1141E-02
9001	0.4205E-02	-0.5660E-01	0.1608E+00	-0.4643E-02	-0.7184E-02	-0.1122E-02
9002	0.5731E-02	-0.5813E-01	0.1646E+00	-0.4713E-02	-0.7753E-02	-0.1097E-02
6	0.7764E-02	-0.5868E-01	0.1596E+00	-0.4839E-02	-0.8260E-02	-0.1068E-02
7	0.1015E-01	-0.5868E-01	0.1486E+00	-0.4939E-02	-0.8837E-02	-0.1048E-02
9003	0.3984E-01	-0.5870E-01	-0.3901E-01	-0.4627E-02	-0.1826E-01	-0.4936E-03
9004	0.4140E-01	-0.5873E-01	-0.1478E+00	-0.6570E-03	-0.2769E-01	0.4808E-03
9	-0.7091E-03	-0.5875E-01	-0.4351E-01	0.6954E-02	-0.3711E-01	0.1868E-02
10	-0.1329E-01	-0.5875E-01	0.6044E-02	0.8641E-02	-0.3875E-01	0.2138E-02
9005	-0.9895E-01	-0.5877E-01	0.3881E+00	0.1507E-01	-0.4675E-01	0.3295E-02
9006	-0.2165E+00	-0.5879E-01	0.9056E+00	0.1731E-01	-0.5476E-01	0.4179E-02
11	-0.3576E+00	-0.5881E-01	0.1428E+01	0.1543E-01	-0.6277E-01	0.4808E-02
12	-0.4101E+00	-0.5881E-01	0.1586E+01	0.1385E-01	-0.6552E-01	0.4969E-02
9007	-0.4195E+00	-0.5630E-01	0.1645E+01	0.1329E-01	-0.6600E-01	0.5019E-02
9008	-0.4264E+00	-0.4938E-01	0.1754E+01	0.1283E-01	-0.6650E-01	0.5069E-02
13	-0.4290E+00	-0.3983E-01	0.1885E+01	0.1239E-01	-0.6710E-01	0.5124E-02
14	-0.4290E+00	-0.2566E-01	0.2071E+01	0.1173E-01	-0.6759E-01	0.5170E-02
15	-0.4290E+00	0.5682E-02	0.2479E+01	0.1030E-01	-0.6855E-01	0.5289E-02
16	-0.4290E+00	0.7933E-01	0.3449E+01	0.6954E-02	-0.7024E-01	0.5032E-02
17	-0.5065E+00	0.8527E-01	0.3635E+01	0.6240E-02	-0.7073E-01	0.4780E-02
18	-0.8546E+00	0.7971E-01	0.3984E+01	0.4844E-02	-0.7127E-01	0.3901E-02
19	-0.1351E+01	0.7406E-01	0.4480E+01	0.3206E-02	-0.7182E-01	0.2321E-02
20	-0.2675E+01	0.3329E-01	0.5804E+01	0.7809E-03	-0.7222E-01	-0.3769E-02
21	-0.2846E+01	0.1862E-01	0.5999E+01	0.1008E-02	-0.7187E-01	-0.6388E-02
9009	-0.2381E+01	0.1880E-01	0.6017E+01	-0.7405E-03	-0.7080E-01	-0.1672E-01
9010	-0.1517E+01	0.1899E-01	0.5900E+01	-0.5522E-02	-0.6973E-01	-0.2621E-01
22	-0.2969E+00	0.1917E-01	0.5552E+01	-0.1199E-01	-0.6866E-01	-0.3440E-01
23	0.2006E-02	0.1921E-01	0.5444E+01	-0.1347E-01	-0.6843E-01	-0.3595E-01
24	0.6121E+00	0.1929E-01	0.5201E+01	-0.1828E-01	-0.6799E-01	-0.3843E-01
9011	0.1945E+01	0.1944E-01	0.4569E+01	-0.2139E-01	-0.6710E-01	-0.4081E-01
9012	0.3299E+01	0.1960E-01	0.3787E+01	-0.2520E-01	-0.6621E-01	-0.3976E-01
25	0.4565E+01	0.1975E-01	0.2907E+01	-0.2716E-01	-0.6531E-01	-0.3561E-01
26	0.4896E+01	0.1980E-01	0.2648E+01	-0.2733E-01	-0.6506E-01	-0.3391E-01

9013	0.5965E+01	0.1996E-01	0.1692E+01	-0.2616E-01	-0.6411E-01	-0.2606E-01
9014	0.6720E+01	0.2012E-01	0.8302E+00	-0.2196E-01	-0.6316E-01	-0.1635E-01
27	0.7113E+01	0.2029E-01	0.1739E+00	-0.1454E-01	-0.6222E-01	-0.5763E-02
28	0.7163E+01	0.2035E-01	0.4695E-02	-0.1091E-01	-0.6186E-01	-0.1769E-02
29	0.7140E+01	0.2044E-01	-0.1589E+00	-0.5655E-02	-0.6133E-01	0.3972E-02
9015	0.6816E+01	0.2061E-01	-0.2302E+00	0.1162E-02	-0.6033E-01	0.1287E-01
9016	0.6219E+01	0.2079E-01	-0.1201E+00	0.4041E-02	-0.5933E-01	0.1844E-01
30	0.5495E+01	0.2096E-01	0.2307E-01	0.7952E-02	-0.5833E-01	0.1947E-01
31	0.5476E+01	0.2096E-01	0.2600E-01	0.2869E-02	-0.5830E-01	0.1963E-01
32	0.5361E+01	0.1817E-01	0.3302E-01	0.2398E-02	-0.5819E-01	0.1916E-01
35	0.5186E+01	0.1249E-01	0.3548E-01	0.1959E-02	-0.5800E-01	0.1890E-01
37	0.4698E+01	-0.1765E-02	0.3550E-01	0.1537E-02	-0.5755E-01	0.1825E-01
9017	0.2900E+01	-0.3895E-01	0.3557E-01	0.7887E-03	-0.5256E-01	0.1572E-01
9018	0.1353E+01	-0.5458E-01	0.3565E-01	0.2063E-03	-0.4205E-01	0.1320E-01
38	0.2389E+00	-0.5411E-01	0.3572E-01	-0.2048E-03	-0.2576E-01	0.1067E-01
39	0.4300E-02	-0.5147E-01	0.3574E-01	-0.2994E-03	-0.1931E-01	0.9862E-02
9019	-0.3275E+00	-0.3766E-01	0.3582E-01	-0.4753E-03	-0.1808E-02	0.7206E-02
40	-0.2234E+00	-0.2144E-01	0.3590E-01	-0.4396E-03	0.6284E-02	0.4550E-02
41	-0.2911E-01	-0.1109E-01	0.3596E-01	-0.2351E-03	0.5671E-02	0.2254E-02
43	-0.8968E-02	-0.3240E-02	0.1865E-01	-0.8151E-04	0.3982E-02	0.1688E-02
44	-0.9959E-02	-0.8709E-03	0.1310E-01	-0.6204E-04	0.3753E-02	0.1601E-02
45	-0.9934E-02	0.4784E-02	-0.5078E-04	-0.1047E-04	0.3176E-02	0.1374E-02
9020	-0.9748E-02	0.2352E-01	-0.4158E-01	0.3754E-03	0.1217E-03	0.5763E-04
46	-0.9562E-02	0.1424E-01	-0.2828E-01	0.7613E-03	-0.6661E-03	-0.5903E-03
47	-0.9543E-02	0.1241E-01	-0.2632E-01	0.8018E-03	-0.6194E-03	-0.6196E-03
91	-0.7669E-02	0.1241E-01	-0.2388E-01	0.8205E-03	-0.5783E-03	-0.6281E-03
92	-0.5762E-03	0.1241E-01	-0.1449E-01	0.7770E-03	-0.2822E-03	-0.5952E-03
93	0.8536E-03	0.1005E-01	-0.1185E-01	0.5160E-03	-0.1267E-03	-0.4917E-03
94	0.5331E-03	0.6527E-02	-0.1185E-01	0.4219E-03	-0.8383E-04	-0.4277E-03
95	0.2521E-03	0.6786E-02	-0.1184E-01	0.2693E-03	-0.4463E-04	-0.3289E-03
96	0.8541E-04	0.5832E-02	-0.1183E-01	0.1075E-03	-0.3816E-04	-0.2301E-03
97	0.7715E-04	0.5806E-02	-0.1183E-01	0.9920E-04	-0.3869E-04	-0.2252E-03
98	-0.6410E-03	0.5925E-02	-0.1134E-01	-0.2339E-03	-0.7356E-04	-0.1088E-03
100	-0.1022E-02	0.5924E-02	-0.1002E-01	-0.3231E-03	-0.1157E-03	-0.7572E-04
101	-0.1219E-02	0.5923E-02	-0.8966E-02	-0.3551E-03	-0.1438E-03	-0.6840E-04
102	-0.1463E-02	0.5922E-02	-0.7528E-02	-0.3859E-03	-0.1805E-03	-0.7547E-04
113	-0.2066E-02	0.7773E-02	-0.8966E-02	-0.2384E-03	-0.1370E-03	-0.7055E-04
114	-0.2635E-02	0.8579E-02	-0.8966E-02	-0.1470E-03	-0.1312E-03	-0.7256E-04
115	-0.3181E-02	0.9032E-02	-0.8966E-02	-0.7221E-04	-0.1258E-03	-0.7457E-04
116	-0.3945E-02	0.9206E-02	-0.8966E-02	0.7412E-05	-0.1189E-03	-0.7752E-04
118	-0.4030E-02	0.9141E-02	-0.8872E-02	0.5875E-04	-0.1136E-03	-0.7978E-04
9023	-0.1718E-02	0.9132E-02	-0.4146E-02	0.2688E-03	-0.7805E-04	-0.7676E-04
120	0.1373E-03	0.9123E-02	0.6288E-02	0.4584E-03	-0.4254E-04	-0.5061E-04
122	0.1555E-03	0.8041E-02	0.7347E-02	0.4915E-03	-0.3823E-04	-0.4383E-04
124	0.1445E-05	0.5927E-02	0.7347E-02	0.5006E-03	-0.3470E-04	-0.3621E-04
125	-0.3161E-03	0.9933E-03	0.7347E-02	0.4544E-03	-0.2875E-04	-0.1800E-04
127	-0.4064E-03	0.1981E-04	0.6416E-02	0.3903E-03	-0.2624E-04	-0.1065E-04
129	-0.3529E-03	0.1168E-04	0.7351E-04	0.1045E-03	-0.1547E-04	0.1083E-04
9024	-0.1263E-03	0.5839E-05	-0.4463E-03	-0.2201E-04	-0.7715E-05	0.1151E-04
130	-0.4856E-11	0.1277E-09	-0.5925E-10	-0.7107E-11	-0.4393E-12	0.1299E-11
48	-0.9527E-02	0.1055E-01	-0.2445E-01	0.7744E-03	-0.6197E-03	-0.6180E-03
49	-0.9499E-02	0.7473E-02	-0.2136E-01	0.7288E-03	-0.6143E-03	-0.6061E-03
50	-0.9472E-02	0.4486E-02	-0.1831E-01	0.6832E-03	-0.6015E-03	-0.5827E-03
51	-0.9464E-02	0.3616E-02	-0.1741E-01	0.6695E-03	-0.5962E-03	-0.5715E-03
52	-0.9433E-02	0.5651E-03	-0.1419E-01	0.6193E-03	-0.5710E-03	-0.5306E-03
53	-0.9301E-02	-0.1006E-01	-0.2617E-02	0.3980E-03	-0.3515E-03	-0.3672E-03
54	-0.9105E-02	-0.2166E-01	-0.4181E-03	0.2170E-04	0.2951E-03	-0.3203E-03
55	-0.9101E-02	-0.2192E-01	-0.6465E-03	0.6485E-04	0.3127E-03	-0.3217E-03
56	-0.7378E-02	-0.2325E-01	-0.2157E-02	0.4874E-05	0.4591E-03	-0.3363E-03
57	-0.6303E-02	-0.2324E-01	-0.2157E-02	-0.8981E-05	0.4349E-01	-0.3439E-03
58	-0.5473E-02	-0.2321E-01	-0.2157E-02	-0.2054E-04	0.3988E-03	-0.3506E-03
59	-0.4359E-02	-0.2312E-01	-0.2158E-02	-0.3654E-04	0.3479E-03	-0.3607E-03
103	-0.4354E-02	-0.2178E-01	-0.1011E-02	-0.4907E-04	0.2246E-03	-0.3590E-03
104	-0.4332E-02	-0.1845E-01	-0.5079E-03	-0.1001E-03	-0.5410E-04	-0.3620E-03
105	-0.4325E-02	-0.1735E-01	-0.7032E-03	-0.1166E-03	-0.6756E-04	-0.3662E-03
106	-0.4317E-02	-0.1625E-01	-0.8829E-03	-0.1330E-03	-0.4364E-04	-0.3715E-03
107	-0.4290E-02	-0.1184E-01	0.5905E-03	-0.1962E-03	0.3937E-03	-0.3953E-03
109	-0.3567E-02	-0.1094E-01	0.1259E-02	-0.2072E-03	0.4962E-03	-0.4007E-03
111	-0.2080E-02	-0.1022E-01	0.1258E-02	-0.2217E-03	0.2849E-03	-0.4110E-03
112	-0.1812E-02	-0.9903E-02	0.1258E-02	-0.2279E-03	0.5703E-04	-0.4153E-03
60	-0.3392E-02	-0.2299E-01	-0.2158E-02	-0.5079E-04	0.3045E-03	-0.3709E-03
61	-0.2545E-02	-0.2281E-01	-0.2158E-02	-0.6341E-04	0.2684E-03	-0.3810E-03
62	-0.2479E-02	-0.2280E-01	-0.2158E-02	-0.6439E-04	0.2657E-03	-0.3819E-03
63	-0.1633E-02	-0.2100E-01	-0.1400E-02	-0.1007E-03	0.1746E-03	-0.4041E-03
64	-0.1640E-02	-0.1640E-01	0.1231E-03	-0.1510E-03	0.1064E-03	-0.4259E-03
65	-0.1644E-02	-0.1426E-01	0.5876E-03	-0.1738E-03	0.8106E-04	-0.4294E-03
131	-0.2434E-03	-0.1426E-01	0.2216E-04	-0.1738E-03	0.8106E-04	-0.4302E-03
132	0.1156E-02	-0.1426E-01	-0.5432E-03	-0.1738E-03	0.8106E-04	-0.4302E-03
66	-0.1648E-02	-0.1211E-01	0.9344E-03	-0.1961E-03	0.5698E-04	-0.4262E-03
67	-0.1652E-02	-0.1031E-01	0.1147E-02	-0.2150E-03	0.4253E-04	-0.4207E-03
68	-0.1654E-02	-0.9054E-02	0.1256E-02	-0.2284E-03	0.3219E-04	-0.4156E-03
69	-0.1656E-02	-0.7814E-02	0.1324E-02	-0.2419E-03	0.1339E-04	-0.4094E-03
70	-0.1657E-02	-0.6896E-02	0.1338E-02	-0.2520E-03	0.2079E-06	-0.4041E-03
71	-0.1660E-02	-0.4907E-02	0.1268E-02	-0.2746E-03	-0.2628E-04	-0.3901E-03
133	-0.3876E-03	-0.4907E-02	0.3705E-03	-0.2753E-03	-0.2628E-04	-0.3908E-03
134	0.6833E-03	-0.4907E-02	-0.5249E-03	-0.2758E-03	-0.2628E-04	-0.3908E-03
72	-0.1665E-02	-0.3013E-02	0.1075E-02	-0.2881E-03	-0.5422E-04	-0.3656E-03
73	-0.1686E-02	-0.1611E-02	-0.2158E-02	-0.3480E-03	-0.2611E-03	-0.2184E-03
74	-0.1688E-02	0.4133E-02	-0.2866E-02	-0.3547E-03	-0.2849E-03	-0.1980E-03
75	-0.1693E-02	0.5019E-02	-0.4375E-02	-0.3682E-03	-0.2910E-03	-0.1546E-03
76	-0.1697E-02	0.5681E-02	-0.5776E-02	-0.3817E-03	-0.2414E-03	-0.1082E-03
77	-0.1699E-02	0.5922E-02	-0.6348E-02	-0.3884E-03	-0.1958E-03	-0.8182E-04
78	-0.1699E-02	0.6244E-02	-0.7023E-02	-0.3792E-03	-0.1437E-03	-0.7752E-04
9021	-0.1696E-02	0.7926E-02	-0.6966E-02	-0.3133E-03	0.1116E-03	-0.4233E-04
79	-0.1693E-02	0.8796E-02	-0.2530E-02	-0.2474E-03	0.1621E-03	-0.2097E-04
80	-0.1691E-02	0.8997E-02	-0.9172E-03	-0.2223E-03	0.1275E-03	-0.1633E-04
81	-0.1691E-02	0.9039E-02	-0.5890E-03	-0.2161E-03	0.1143E-03	-0.1543E-04
82	-0.1976E-02	0.8321E-02	-0.2385E-03	-0.1999E-03	0.5359E-04	-0.1458E-04
9022	-0.1879E-02	0.3835E-02	-0.2334E-03	-0.1485E-03	-0.4460E-04	-0.5738E-05
83	-0.4485E-03	0.7948E-03	-0.2283E-03	-0.8786E-04	-0.5053E-04	0.3106E-05
84	-0.3339E-03	0.5867E-03	-0.2278E-03	-0.8187E-04	-0.4648E-04	0.3911E-05

85	-0.2581E-03	0.4536E-03	-0.2275E-03	-0.7754E-04	-0.4312E-04	0.4487E-05
86	-0.2505E-04	0.2425E-04	-0.9278E-04	-0.4256E-04	-0.1644E-04	0.6647E-05
87	-0.9363E-10	0.9606E-11	-0.1669E-09	-0.3449E-10	-0.3299E-11	0.8455E-11

COUPLED MODE SHAPES (FOR SECONDARY MODE) MODE 5
FREQUENCY (HZ.) = 1.58675

MODAL DISP AT PRIMARY SYSTEM CONNETING DOF

DOF #	DISPLACEMENT
3041	-0.4219E-05
3042	0.0000E+00
3043	0.3131E-06
3061	-0.1289E-05
3063	0.1052E-05
3072	0.0000E+00
3081	-0.2387E-05
3103	0.3788E-05
3121	-0.5560E-05
3122	0.0000E+00
3123	0.4943E-05
3091	-0.2888E-05
3092	0.0000E+00
3093	0.2347E-05

MODAL DISPLACEMENTS AT SECONDARY SYSTEM DOF

NODE	DX	DY	DZ	ROT-X	ROT-Y	ROT-Z
1	-0.2144E-08	-0.1380E-08	-0.3584E-08	-0.6575E-09	0.1612E-08	-0.2707E-09
2	-0.3754E-02	-0.2174E-02	-0.3766E-02	-0.6883E-03	0.1488E-02	-0.1814E-03
3	-0.1816E-01	-0.1357E-01	-0.4486E-01	-0.2216E-02	0.3867E-02	-0.3445E-03
4	-0.1823E-01	-0.1699E-01	-0.1695E+00	-0.4888E-02	0.4808E-02	0.3480E-03
5	-0.1827E-01	-0.6830E-02	-0.2286E+00	-0.6222E-02	0.3836E-02	0.1250E-02
9001	-0.1900E-01	-0.4226E-02	-0.2387E+00	-0.6394E-02	0.3456E-02	0.1547E-02
9002	-0.2135E-01	-0.1915E-02	-0.2522E+00	-0.6549E-02	0.3115E-02	0.1846E-02
6	-0.2511E-01	-0.9375E-03	-0.2662E+00	-0.6734E-02	0.2794E-02	0.2133E-02
7	-0.3013E-01	-0.9412E-03	-0.2815E+00	-0.6848E-02	0.2417E-02	0.2198E-02
9003	-0.1357E+00	-0.1002E-02	-0.5204E+00	-0.4893E-02	-0.3733E-02	0.2689E-02
9004	-0.1758E+00	-0.1063E-02	-0.5557E+00	0.4190E-02	-0.9884E-02	-0.1250E-02
9	0.7984E-02	-0.1124E-02	-0.1278E+00	0.2026E-01	-0.1603E-01	-0.9480E-02
10	0.7401E-01	-0.1134E-02	0.1214E-01	0.2375E-01	-0.1710E-01	-0.1115E-01
9005	0.5111E+00	-0.1186E-02	0.9851E+00	0.3698E-01	-0.2232E-01	-0.1578E-01
9006	0.1001E+01	-0.1237E-02	0.2236E+01	0.4155E-01	-0.2755E-01	-0.1453E-01
11	0.1361E+01	-0.1289E-02	0.3497E+01	0.3769E-01	-0.3277E-01	-0.7513E-02
12	0.1422E+01	-0.1307E-02	0.3886E+01	0.3449E-01	-0.3457E-01	-0.3794E-02
9007	0.1428E+01	-0.276xE-02	0.3967E+01	0.3329E-01	-0.3482E-01	-0.2418E-02
9008	0.1431E+01	-0.5062E-02	0.4060E+01	0.3224E-01	-0.3500E-01	-0.1001E-02
13	0.1431E+01	-0.5578E-02	0.4142E+01	0.3128E-01	-0.3529E-01	0.4473E-03
14	0.1431E+01	-0.2625E-02	0.4239E+01	0.2995E-01	-0.3553E-01	0.1571E-02
15	0.1431E+01	0.1403E-01	0.4454E+01	0.2706E-01	-0.3586E-01	0.4075E-02
16	0.1431E+01	0.1065E+00	0.4954E+01	0.2032E-01	-0.3562E-01	0.8606E-02
17	0.1392E+01	0.1099E+00	0.5048E+01	0.1871E-01	-0.3522E-01	0.9845E-02
18	0.1221E+01	0.7526E-01	0.5220E+01	0.1631E-01	-0.3466E-01	0.1074E-01
19	0.9836E+00	0.4875E-01	0.5457E+01	0.1373E-01	-0.3378E-01	0.1118E-01
20	0.3873E+00	0.1215E-01	0.6053E+01	0.1155E-01	-0.3115E-01	0.7712E-02
21	0.2833E+00	-0.1337E-02	0.6181E+01	0.1255E-01	-0.3002E-01	0.5011E-02
9009	0.2357E+00	-0.6844E-03	0.6705E+01	0.1230E-01	-0.2428E-01	-0.1253E-02
9010	0.2783E+00	-0.4319E-03	0.7082E+01	0.5606E-02	-0.1854E-01	0.4985E-03
22	0.9140E-01	0.2067E-04	0.7099E+01	-0.5255E-02	-0.1281E-01	0.1018E-01
23	-0.7694E-02	0.1166E-03	0.7043E+01	-0.7910E-02	-0.1159E-01	0.1325E-01
24	-0.2729E+00	0.3014E-03	0.6872E+01	-0.1367E-01	-0.9246E-02	0.1895E-01
9011	-0.1058E+01	0.6782E-03	0.6266E+01	-0.2300E-01	-0.4868E-02	0.2730E-01
9012	-0.2048E+01	0.1055E-02	0.5355E+01	-0.3118E-01	0.3096E-03	0.3132E-01
25	-0.3105E+01	0.1432E-02	0.4216E+01	-0.3652E-01	0.5088E-02	0.3133E-01
26	-0.3399E+01	0.1539E-02	0.3864E+01	-0.3741E-01	0.6448E-02	0.3064E-01
9013	-0.4411E+01	0.1939E-02	0.2520E+01	-0.3767E-01	0.1152E-01	0.2589E-01
9014	-0.5199E+01	0.2339E-02	0.1256E+01	-0.3273E-01	0.1659E-01	0.1824E-01
27	-0.5682E+01	0.2739E-02	0.2665E+00	-0.2216E-01	0.2166E-01	0.8807E-02
28	-0.5774E+01	0.2888E-02	0.7832E-02	-0.1672E-01	0.2355E-01	0.5031E-02
29	-0.5818E+01	0.3114E-02	-0.2438E+00	-0.8772E-02	0.2642E-01	-0.5412E-03
9015	-0.5623E+01	0.3535E-02	-0.3632E+00	0.1305E-02	0.3176E-01	-0.9489E-02
9016	-0.5147E+01	0.3957E-02	-0.2228E+00	0.5126E-02	0.3711E-01	-0.1538E-01
30	-0.4530E+01	0.4378E-02	-0.5786E-01	0.2612E-02	0.4245E-01	-0.1677E-01
31	-0.4513E+01	0.4390E-02	-0.5531E-01	0.2457E-02	0.4259E-01	-0.1674E-01
32	-0.4422E+01	0.2357E-02	0.4987E-01	0.1602E-02	0.4302E-01	-0.1658E-01
35	-0.4289E+01	-0.6682E-03	-0.4843E-01	0.8498E-03	0.4350E-01	-0.1642E-01
37	-0.3919E+01	-0.4446E-02	-0.4840E-01	0.3291E-03	0.4414E-01	-0.1585E-01
9017	-0.2490E+01	-0.1383E-01	-0.4828E-01	0.2459E-03	0.4313E-01	-0.1366E-01
9018	-0.1189E+01	-0.2008E-01	-0.4816E-01	0.1356E-03	0.3617E-01	-0.1147E-01
38	-0.2141E+00	-0.2236E-01	-0.4804E-01	0.1033E-05	0.2296E-01	-0.9274E-02
39	-0.4044E-02	-0.2212E-01	-0.4800E-01	-0.4671E-04	0.1737E-01	-0.8571E-02
9019	0.3009E+00	-0.1772E-01	-0.4786E-01	-0.2148E-03	0.1899E-02	-0.6265E-02
40	0.2131E+00	-0.7367E-02	-0.4775E-01	-0.3955E-03	-0.5680E-02	-0.3959E-02
41	0.2824E-01	0.6690E-02	-0.4764E-01	-0.5608E-03	-0.5829E-02	-0.1967E-02
43	0.7837E-02	0.2660E-02	-0.2858E-01	-0.6661E-03	-0.4547E-02	-0.1480E-02
44	0.7829E-02	0.5823E-03	-0.2215E-01	-0.6770E-03	-0.4342E-02	-0.1405E-02
45	0.7808E-02	-0.4391E-02	-0.6619E-02	-0.7056E-03	-0.3753E-02	-0.1211E-02
9020	0.7651E-02	-0.2126E-01	0.4519E-01	-0.9200E-03	-0.3121E-03	-0.6687E-04
46	0.7495E-02	-0.1321E-01	0.3382E-01	-0.1134E-02	0.6753E-03	0.5150E-03
47	0.7478E-02	-0.1155E-01	0.3181E-01	-0.1157E-02	0.6365E-03	0.5656E-03
91	0.5763E-02	-0.1155E-01	0.2831E-01	-0.1169E-02	0.5976E-03	0.5754E-03
92	-0.7700E-03	-0.1155E-01	0.1531E-01	-0.1062E-02	0.3180E-03	0.5512E-03
93	-0.1898E-02	-0.8321E-02	0.1171E-01	-0.7184E-03	0.1701E-03	0.4605E-03
94	-0.1432E-02	-0.6179E-02	0.1170E-01	-0.6002E-03	0.1292E-03	0.4034E-03
95	-0.9181E-03	-0.3636E-02	0.1169E-01	-0.4132E-03	0.9121E-04	0.3153E-03
96	-0.5183E-03	-0.2043E-02	0.1168E-01	-0.2206E-03	0.8359E-04	0.2272E-03
97	-0.4986E-03	-0.1969E-02	0.1168E-01	-0.2109E-03	0.8400E-04	0.2228E-03

98	0.4068E-03	-0.1773E-02	0.1147E-01	0.1769E-03	0.1139E-03	0.1195E-03
100	0.8496E-03	-0.1773E-02	0.1037E-01	0.2627E-03	0.1512E-03	0.9132E-04
101	0.1098E-02	-0.1772E-02	0.9413E-02	0.3223E-03	0.1760E-03	0.8639E-04
102	0.1414E-02	-0.1772E-02	0.8098E-02	0.3527E-03	0.2088E-03	0.9488E-04
113	0.2136E-02	-0.3507E-02	0.9418E-02	0.2383E-03	0.1683E-03	0.8769E-04
114	0.2836E-02	-0.4366E-02	0.9417E-02	0.1686E-03	0.1616E-03	0.8910E-04
115	0.3509E-02	-0.4945E-02	0.9417E-02	0.1071E-03	0.1554E-03	0.9050E-04
116	0.4454E-02	-0.5364E-02	0.9417E-02	0.3145E-04	0.1472E-03	0.9256E-04
118	0.4568E-02	-0.5382E-02	0.9399E-02	-0.2836E-04	0.1406E-03	0.9432E-04
9023	0.1812E-02	-0.5377E-02	0.5377E-02	-0.2320E-03	0.9812E-04	0.8753E-04
120	-0.2025E-03	-0.5373E-02	-0.2673E-02	-0.3101E-03	0.5541E-04	0.5617E-04
122	-0.2052E-03	-0.4674E-02	-0.3372E-02	-0.3096E-03	0.5017E-04	0.4862E-04
124	-0.2246E-05	-0.3373E-02	-0.3372E-02	-0.3014E-03	0.4585E-04	0.3989E-04
125	0.4196E-03	-0.5324E-03	-0.3372E-02	-0.2495E-03	0.3834E-04	0.1903E-04
127	0.5336E-03	-0.9822E-05	-0.2881E-02	-0.2004E-03	0.3513E-04	0.1060E-04
129	0.4314E-03	-0.5791E-05	-0.3414E-05	-0.4009E-04	0.2071E-04	-0.1371E-04
9024	0.1523E-03	-0.2895E-05	0.1837E-03	0.9440E-05	0.1036E-04	-0.1396E-04
130	0.5660E-11	-0.6331E-10	0.2353E-10	0.2874E-11	0.5881E-12	-0.1554E-11
48	0.7465E-02	-0.9841E-02	0.2989E-01	-0.1125E-02	0.6401E-03	0.5683E-03
49	0.7442E-02	-0.7000E-02	0.2668E-01	-0.1071E-02	0.6406E-03	0.5623E-03
50	0.7420E-02	-0.4218E-02	0.2348E-01	-0.1017E-02	0.6338E-03	0.5450E-03
51	0.7413E-02	-0.3403E-02	0.2253E-01	-0.1001E-02	0.6304E-03	0.5376E-03
52	0.7388E-02	-0.5301E-03	0.1911E-01	-0.9420E-03	0.6121E-03	0.5020E-03
53	0.7278E-02	0.9745E-02	0.6155E-02	-0.6813E-03	0.4246E-03	0.3628E-03
54	0.7116E-02	0.2143E-01	0.4595E-03	-0.2971E-03	-0.1717E-03	0.3224E-03
55	0.7113E-02	0.2165E-01	0.5952E-03	-0.2891E-03	-0.1881E-03	0.3236E-03
56	0.5891E-02	0.2180E-01	0.1617E-02	-0.2169E-03	-0.3345E-03	0.3335E-03
57	0.5097E-02	0.2427E-01	0.1617E-02	-0.1999E-02	-0.3195E-03	0.3399E-03
58	0.4486E-02	0.2465E-01	0.1617E-02	-0.1855E-03	-0.2939E-03	0.3455E-03
59	0.3662E-02	0.2517E-01	0.1618E-02	-0.1651E-03	-0.2573E-03	0.3540E-03
103	0.3654E-02	0.2387E-01	0.7699E-03	-0.1475E-03	-0.1662E-03	0.3432E-03
104	0.3643E-02	0.2080E-01	0.1976E-03	-0.7579E-04	0.4051E-04	0.3236E-03
105	0.3638E-02	0.1983E-01	0.5445E-03	-0.5264E-04	0.5112E-04	0.3254E-03
106	0.3632E-02	0.1885E-01	0.6821E-03	-0.2949E-04	0.3432E-04	0.3301E-03
107	0.3613E-02	0.1487E-01	-0.3557E-03	0.5922E-04	-0.2836E-03	0.3664E-03
109	0.3091E-02	0.1421E-01	-0.8381E-03	0.7455E-04	-0.3590E-03	0.3773E-03
111	0.2009E-02	0.1393E-01	-0.8375E-03	0.9657E-04	-0.2101E-03	0.3976E-03
112	0.1808E-02	0.1376E-01	-0.8373E-03	0.1064E-03	-0.4766E-04	0.4061E-03
60	0.2946E-02	0.2564E-01	0.1619E-02	-0.1462E-03	-0.2252E-03	0.3627E-03
61	0.2319E-02	0.2605E-01	0.1619E-02	-0.1288E-03	-0.1978E-03	0.3715E-03
62	0.2270E-02	0.2608E-01	0.1619E-02	-0.1274E-03	-0.195.E-03	0.3722E-03
63	0.1655E-02	0.2502E-01	0.1076E-02	-0.7562E-04	-0.1225E-03	0.3971E-03
64	0.1659E-02	0.2055E-01	0.3162E-04	-0.2633E-06	-0.7316E-04	0.4141E-03
65	0.1661E-02	0.1846E-01	-0.2923E-03	0.3402E-04	-0.5889E-04	0.4189E-03
131	0.2957E-03	0.1846E-01	-0.1797E-03	0.3437E-04	-0.5889E-04	0.4194E-03
132	-0.1068E-02	0.1846E-01	-0.6789E-04	0.3437E-04	-0.5889E-04	0.4194E-03
66	0.1664E-02	0.1637E-01	-0.5576E-03	0.6390E-04	-0.4713E-04	0.4158E-03
67	0.1667E-02	0.1461E-01	-0.7366E-03	0.8928E-04	-0.1706E-04	0.4111E-03
68	0.1669E-02	0.1339E-01	-0.8371E-03	0.1072E-03	-0.2992E-04	0.4067E-03
69	0.1671E-02	0.1217E-01	-0.9056E-03	0.1254E-03	-0.1593E-04	0.4015E-03
70	0.1672E-02	0.1127E-01	-0.9295E-03	0.1390E-03	-0.5596E-05	0.3970E-03
71	0.1674E-02	0.9311E-02	-0.9004E-03	0.1694E-03	0.1694E-04	0.3852E-03
133	0.4169E-03	0.9311E-02	-0.3457E-03	0.1701E-03	0.1694E-04	0.3860E-03
134	-0.8384E-03	0.9312E-02	0.2073E-03	0.1701E-03	0.1694E-04	0.3860E-03
72	0.1678E-02	0.7436E-02	-0.7598E-03	0.1913E-03	0.4387E-04	0.3628E-03
73	0.1697E-02	0.7524E-03	0.2433E-02	0.2885E-03	0.2772E-03	0.2275E-03
74	0.1699E-02	0.2060E-03	0.3190E-02	0.2995E-03	0.3062E-03	0.2087E-03
75	0.1703E-02	-0.7421E-03	0.4829E-02	0.3213E-03	0.3185E-03	0.1688E-03
76	0.1708E-02	-0.1483E-02	0.6376E-02	0.3432E-03	0.2697E-03	0.1260E-03
77	0.1710E-02	-0.1772E-02	0.7019E-02	0.3541E-03	0.2225E-03	0.1035E-03
78	0.1709E-02	-0.2179E-02	0.7787E-02	0.3455E-03	0.1638E-03	0.9992E-04
9021	0.1706E-02	-0.4696E-02	0.7770E-02	0.2794E-03	-0.1245E-03	0.7664E-04
79	0.1702E-02	-0.6598E-02	0.2788E-02	0.2139E-03	-0.1028E-03	0.5672E-04
80	0.1701E-02	-0.7178E-02	0.9647E-03	0.1890E-03	-0.1446E-03	0.4997E-04
81	0.1700E-02	-0.7310E-02	0.5921E-03	0.1828E-03	-0.1300E-03	0.4833E-04
82	0.2027E-02	-0.6834E-02	0.1917E-03	0.1671E-03	-0.6234E-04	0.4454E-04
9022	0.1986E-02	-0.3139E-02	0.1859E-03	0.1209E-03	0.4722E-04	0.2460E-04
83	0.4510E-03	-0.6507E-03	0.1802E-03	0.7295E-04	0.5415E-04	0.4661E-05
84	0.3282E-03	-0.4857E-03	0.1796E-03	0.6848E-04	0.4966E-04	0.2846E-05
85	0.2473E-03	-0.3741E-03	0.1793E-03	0.6528E-04	0.4596E-04	0.1548E-05
86	0.1847E-04	-0.1749E-04	0.8064E-04	0.3774E-04	0.1674E-04	-0.4231E-05
87	0.1042E-09	-0.1974E-11	0.1875E-09	0.3149E-10	0.3398E-11	-0.6526E-11

COUPLED MODE SHAPES (FOR SECONDARY MODE) MODE 6
FREQUENCY (HZ.) = 2.80091

MODAL DISP AT PRIMARY SYSTEM CONNETING DOF

DOF #	DISPLACEMENT
3041	0.1720E-05
3042	0.0000E+00
3043	0.2459E-07
3061	0.4191E-05
3063	0.8265E-07
3072	0.0000E+00
3081	0.6716E-05
3103	0.2975E-06
3121	0.1311E-04
3122	0.0000E+00
3123	0.3882E-06
3091	0.7752E-05
3092	0.0000E+00
3093	0.1843E-06

MODAL DISPLACEMENTS AT SECONDARY SYSTEM DOF

NODE	DX	DY	DZ	ROT-X	ROT-Y	ROT-Z

1	-0.7312E-08	0.7950E-09	0.1102E-10	0.7457E-10	0.3938E-05	0.1598E-06
2	-0.5463E-03	0.1978E-02	-0.7873E-03	-0.1743E-03	0.2223E-03	0.1823E-02
3	-0.1817E-02	0.5692E-01	-0.1176E-02	-0.5011E-03	-0.3319E-03	0.5573E-02
4	-0.2650E-02	0.2784E+00	0.2776E-01	-0.5518E-03	-0.1843E-02	0.1094E-01
5	-0.2167E-02	0.4410E+00	0.5746E-01	-0.5773E-03	-0.2559E-02	0.1333E-01
9001	-0.9095E-02	0.4666E+00	0.6223E-01	-0.5671E-03	-0.2797E-02	0.1394E-01
9002	-0.2871E-01	0.4861E+00	0.6542E-01	-0.5433E-03	-0.2970E-02	0.1450E-01
6	-0.5648E-01	0.4935E+00	0.6593E-01	-0.5344E-03	-0.3119E-02	0.1500E-01
7	-0.9063E-01	0.4935E+00	0.6473E-01	-0.5376E-03	-0.3284E-02	0.1526E-01
9003	-0.6317E+00	0.4935E+00	0.4417E-01	-0.5739E-03	-0.5985E-02	0.1160E-01
9004	-0.7687E+00	0.4936E+00	0.2312E-01	-0.5583E-03	-0.8687E-02	-0.6628E-02
9	0.2469E-01	0.4936E+00	0.4032E-02	-0.4644E-03	-0.1139E-01	-0.3887E-01
10	0.2936E+00	0.4936E+00	0.1150E-02	-0.4391E-03	-0.1166E-01	-0.4526E-01
9005	0.2079E+01	0.4936E+00	-0.1679E-01	-0.9250E-03	-0.1415E-01	-0.6590E-01
9006	0.4237E+01	0.4935E+00	-0.6923E-01	-0.2648E-02	-0.1645E-01	-0.6923E-01
11	0.6246E+01	0.4935E+00	-0.1951E+00	-0.5628E-02	-0.1874E-01	-0.5679E-01
12	0.6818E+01	0.4935E+00	-0.2624E+00	-0.6951E-02	-0.1953E-01	-0.4923E-01
9007	0.6908E+01	0.4697E+00	-0.2660E+00	-0.7400E-02	-0.1864E-01	-0.4641E-01
9008	0.6969E+01	0.4081E+00	-0.2494E+00	-0.7785E-02	-0.1975E-01	-0.4351E-01
13	0.6991E+01	0.3291E+00	-0.2162E+00	-0.8130E-02	-0.1990E-01	-0.4055E-01
14	0.6991E+01	0.2208E+00	-0.1612E+00	-0.8610E-02	-0.2003E-01	-0.3828E-01
15	0.6991E+01	0.5932E-02	-0.4015E-01	-0.9674E-02	-0.2029E-01	-0.3331E-01
16	0.6991E+01	-0.3802E+00	0.2461E+00	-0.1214E-01	-0.2069E-01	-0.2229E-01
17	0.6968E+01	-0.4203E+00	0.3011E+00	-0.1305E-01	-0.2079E-01	-0.1843E-01
18	0.6866E+01	-0.4322E+00	0.4014E+00	-0.1322E-01	-0.2102E-01	-0.1282E-01
19	0.6718E+01	-0.4026E+00	0.5510E+00	-0.1310E-01	-0.2159E-01	-0.5229E-02
20	0.6303E+01	-0.1041E+00	0.9668E+00	-0.1079E-01	-0.2391E-01	0.1284E-01
21	0.6177E+01	-0.3639E-01	0.9915E+00	-0.1049E-01	-0.2535E-01	0.1828E-01
9009	0.5018E+01	-0.3619E-01	0.6195E+00	-0.8232E-02	-0.3108E-01	0.3916E-01
9010	0.3070E+01	-0.3599E-01	0.3235E+00	-0.6587E-02	-0.3692E-01	0.5682E-01
22	0.5660E+00	-0.3579E-01	0.8976E-01	-0.5071E-02	-0.4256E-01	0.6650E-01
23	-0.3098E-02	-0.3575E-01	0.4806E-01	-0.4744E-02	-0.4377E-01	0.6735E-01
24	-0.1109E-01	-0.3567E-01	-0.2435E-01	-0.4099E-02	-0.4611E-01	0.6726E-01
9011	-0.3252E+01	-0.3550E-01	-0.1384E+00	-0.2721E-02	-0.5089E-01	0.5935E-01
9012	-0.4970E+01	-0.3533E-01	-0.2056E+00	-0.1305E-02	-0.5567E-01	0.4218E-01
25	-0.5993E+01	-0.3516E-01	-0.2262E+00	0.4896E-04	-0.6044E-01	0.1818E-01
26	-0.6129E+01	-0.3511E-01	-0.2240E+00	0.4080E-03	-0.6180E-01	0.1046E-01
9013	-0.5978E+01	-0.3493E-01	-0.1883E+00	0.1546E-02	-0.6667E-01	-0.1910E-01
9014	-0.4792E+01	-0.3475E-01	-0.1192E+00	0.2279E-02	-0.7194E-01	-0.4724E-01
27	-0.2693E+01	-0.3457E-01	-0.3283E-01	0.2499E-02	-0.7701E-01	-0.7013E-01
28	-0.1718E+01	-0.3450E-01	-0.1411E-04	0.2438E-02	-0.7890E-01	-0.7681E-01
29	-0.9885E-01	-0.3440E-01	0.4665E-01	0.2196E-02	-0.8177E-01	-0.8451E-01
9015	0.3207E+01	-0.3421E-01	0.1136E+00	0.1289E-02	-0.8711E-01	-0.9077E-01
9016	0.6565E+01	-0.3402E-01	0.1364E+00	-0.1534E-03	-0.9245E-01	-0.8775E-01
30	0.9696E+01	-0.3382E-01	0.9685E-01	-0.2028E-02	-0.9779E-01	-0.7953E-01
31	0.9775E+01	-0.3382E-01	0.9480E-01	-0.2083E-02	-0.9794E-01	-0.7927E-01
32	0.9876E+01	-0.3129E-01	0.8888E-01	-0.2372E-02	-0.9851E-01	-0.7796E-01
35	0.9699E+01	-0.2461E-01	0.8617E-01	-0.2593E-02	-0.9918E-01	-0.7687E-01
37	0.8856E+01	-0.2020E-02	0.8617E-01	-0.2632E-02	-0.9995E-01	-0.7417E-01
9017	0.5638E+01	0.7082E-01	0.8618E-01	-0.1855E-02	-0.9711E-01	-0.6360E-01
9018	0.2700E+01	0.1175E+00	0.8618E-01	-0.1022E-02	-0.8194E-01	-0.5344E-01
38	0.4865E+00	0.1369E+00	0.8618E-01	-0.1844E-03	-0.5216E-01	-0.4307E-01
39	0.9621E-02	0.1375E+00	0.8618E-01	0.7588E-04	-0.3937E-01	-0.3975E-01
9019	-0.6737E+00	0.1218E+00	0.8618E-01	0.8089E-03	-0.3942E-02	-0.2864E-01
40	-0.4655E+00	0.8524E-01	0.8618E-01	0.1286E-02	0.1290E-01	-0.1794E-01
41	-0.5894E-01	0.4441E-01	0.8617E-01	0.1443E-02	0.1221E-01	-0.8513E-02
43	-0.1715E-01	0.1249E-01	0.4792E-01	0.1198E-02	0.8919E-02	-0.6216E-02
44	-0.1714E-01	0.3769E-02	0.3542E-01	0.1198E-02	0.8447E-02	-0.5879E-02
45	-0.1708E-01	-0.1682E-01	0.5591E-02	0.1197E-03	0.7195E-02	-0.4963E-02
9020	-0.1671E-01	-0.7905E-01	-0.8562E-01	0.1189E-02	0.3845E-03	0.1783E-04
46	-0.1633E-01	-0.4639E-01	-0.6376E-01	0.1161E-02	-0.1286E-02	0.1683E-02
47	-0.1629E-01	-0.4131E-01	-0.6000E-01	0.1181E-02	-0.1161E-02	0.1664E-02
91	-0.2120E-01	-0.4131E-01	-0.5642E-01	0.1179E-02	-0.1036E-02	0.1591E-02
92	-0.3719E-01	-0.4130E-01	-0.4659E-01	0.7633E-03	-0.1316E-03	0.1385E-02
93	-0.4172E-01	-0.4217E-01	-0.4276E-01	-0.9809E-04	0.3591E-03	0.1487E-02
94	-0.4029E-01	-0.4140E-01	-0.4275E-01	-0.3616E-03	0.4813E-03	0.1588E-02
95	-0.3750E-01	-0.3860E-01	-0.4272E-01	-0.7371E-03	0.5770E-03	0.1743E-02
96	-0.3452E-01	-0.3402E-01	-0.4270E-01	-0.1074E-02	0.5594E-03	0.1899E-02
97	-0.3437E-01	-0.3375E-01	-0.4270E-01	-0.1090E-02	0.5556E-03	0.1906E-02
98	-0.2496E-01	-0.2875E-01	-0.3709E-01	-0.1647E-02	0.3319E-03	0.2036E-02
100	-0.1572E-01	-0.2874E-01	-0.2930E-01	-0.1751E-02	0.1388E-03	0.2021E-02
101	-0.9678E-02	-0.2874E-01	-0.2395E-01	-0.1757E-02	0.1005E-04	0.1960E-02
102	-0.2429E-02	-0.2874E-01	-0.1731E-01	-0.1730E-02	-0.1707E-03	0.1860E-02
113	-0.9429E-02	-0.1867E-01	-0.2395E-01	-0.1545E-02	0.8759E-04	0.1707E-02
114	-0.8923E-02	-0.1254E-01	-0.2395E-01	-0.1340E-02	0.1456E-03	0.1471E-02
115	-0.8200E-02	-0.7295E-02	-0.2395E-01	-0.1128E-02	0.1898E-03	0.1236E-02
116	-0.6865E-02	-0.1246E-02	-0.2394E-01	-0.8027E-03	0.2291E-03	0.8887E-03
118	-0.8004E-02	0.2921E-03	-0.2528E-01	-0.4832E-03	0.2635E-03	0.6644E-03
9023	-0.1332E-01	0.2960E-03	-0.2308E-01	0.4572E-03	0.3409E-03	-0.1824E-03
120	-0.3693E-02	0.3000E-03	-0.9186E-02	0.3316E-03	0.4183E-03	-0.3793E-03
122	-0.1915E-02	-0.2325E-03	-0.8558E-02	0.1814E-03	0.4229E-03	-0.3498E-03
124	-0.1250E-03	-0.7760E-03	-0.8556E-02	0.7783E-04	0.4168E-03	-0.3145E-03
125	0.3919E-02	-0.4185E-03	-0.8551E-02	-0.1400E-03	0.3797E-03	-0.2302E-03
127	0.4280E-02	-0.8736E-05	-0.8074E-02	-0.2471E-03	0.3597E-03	-0.1987E-03
129	0.9364E-03	-0.5151E-05	-0.3750E-03	-0.1965E-03	0.2121E-03	-0.7207E-04
9024	0.1352E-03	-0.2575E-05	0.7216E-03	0.3197E-04	0.1060E-03	-0.2020E-04
130	-0.1260E-10	-0.5631E-10	0.1040E-09	0.1198E-10	0.6022E-11	-0.3259E-12
48	-0.1627E-01	-0.3610E-01	-0.5646E-01	0.1136E-02	-0.1191E-02	0.1786E-02
49	-0.1622E-01	-0.2671E-01	-0.5040E-01	0.1061E-02	-0.1224E-02	0.1938E-02
50	-0.1617E-01	-0.1672E-01	-0.4422E-01	0.9860E-03	-0.1236E-02	0.2024E-02
51	-0.1616E-01	-0.1366E-01	-0.4235E-01	0.9636E-03	-0.1238E-02	0.2037E-02
52	-0.1610E-01	-0.2375E-02	-0.3556E-01	0.8814E-03	-0.1223E-02	0.2035E-02
53	-0.1587E-01	0.4497E-01	-0.9289E-02	0.5187E-03	-0.8538E-03	0.1882E-02
54	-0.1553E-01	0.1096E+00	-0.1353E-02	-0.1606E-04	0.5972E-03	0.1743E-02
55	-0.1552E-01	0.1109E+00	-0.1819E-02	-0.2728E-04	0.6388E-03	0.1741E-02
56	-0.1181E-01	0.1177E+00	-0.5014E-02	-0.1327E-03	0.1039E-02	0.1730E-02
57	-0.9362E-02	0.1180E+00	-0.5016E-02	-0.1600E-03	0.1025E-02	0.1723E-02
58	-0.7343E-02	0.1184E+00	-0.5017E-02	-0.1845E-03	0.9834E-03	0.1717E-02
59	-0.4483E-02	0.1190E+00	-0.5019E-02	-0.2236E-03	0.9114E-03	0.1708E-02
103	-0.4467E-02	0.1126E+00	-0.2032E-02	-0.2657E-03	0.5745E-03	0.1719E-02
104	-0.4404E-02	0.9623E-01	-0.9681E-03	-0.4370E-03	-0.1716E-03	0.1825E-02

105	-0.4361E-02	0.9068E-01	-0.1559E-02	-0.4921E-03	-0.1982E-03	0.1876E-02
106	-0.4363E-02	0.8498E-01	-0.2072E-02	-0.5476E-03	-0.1203E-03	0.1920E-02
107	-0.4284E-02	0.6270E-01	0.2303E-02	-0.7597E-03	0.1143E-02	0.1904E-02
109	-0.2193E-02	0.6104E-01	0.4240E-02	-0.7977E-03	0.1432E-02	0.1860E-02
111	0.2078E-02	0.6384E-01	0.4258E-02	-0.8734E-03	0.8080E-03	0.1777E-02
112	0.2827E-02	0.6511E-01	0.4237E-02	-0.9142E-03	0.1427E-03	0.1743E-02
60	-0.1857E-02	0.1197E+00	-0.5020E-02	-0.2635E-03	0.8385E-03	0.1699E-02
61	0.5498E-03	0.1206E+00	-0.5021E-02	-0.3053E-03	0.7647E-03	0.1690E-02
62	0.7400E-03	0.1206E+00	-0.5022E-02	-0.3089E-03	0.7586E-03	0.1689E-02
63	0.3220E-02	0.1157E+00	-0.2816E-02	-0.4380E-03	0.4975E-03	0.1656E-02
64	0.3221E-02	0.9760E-01	0.1379E-02	-0.6304E-03	0.2825E-03	0.1648E-02
65	0.3221E-02	0.8935E-01	0.2589E-02	-0.7185E-03	0.2088E-03	0.1651E-02
131	-0.2126E-02	0.8935E-01	0.2500E-03	-0.7191E-03	0.2088E-03	0.1647E-02
132	-0.7484E-02	0.8935E-01	-0.2089E-02	-0.7191E-03	0.2088E-03	0.1647E-02
66	0.3212E-02	0.8098E-01	0.3469E-02	-0.7959E-03	0.1466E-03	0.1692E-02
67	0.3204E-02	0.7371E-01	0.3986E-02	-0.8690E-03	0.9992E-04	0.1722E-02
68	0.3198E-02	0.6851E-01	0.4236E-02	-0.9178E-03	0.7037E-04	0.1740E-02
69	0.3195E-02	0.6327E-01	0.4360E-02	-0.9680E-03	0.1596E-04	0.1755E-02
70	0.3193E-02	0.5930E-01	0.4348E-02	-0.1006E-02	-0.2235E-04	0.1765E-02
71	0.3188E-02	0.5042E-01	0.4029E-02	-0.1080E-02	-0.9989E-04	0.1781E-02
133	-0.2574E-02	0.5042E-01	0.4805E-03	-0.1091E-02	-0.9989E-04	0.1776E-02
134	-0.8350E-02	0.5042E-01	-0.3066E-02	-0.1091E-02	-0.9989E-04	0.1776E-02
72	0.3172E-02	0.4137E-01	0.3349E-02	-0.1161E-02	-0.1738E-03	0.1831E-02
73	0.3097E-02	-0.7575E-03	-0.4416E-02	-0.1480E-02	-0.5437E-03	0.1904E-02
74	0.3089E-02	-0.5512E-02	-0.5950E-02	-0.1616E-02	-0.5732E-03	0.1895E-02
75	0.3072E-02	-0.1494E-01	-0.8885E-02	-0.1588E-02	-0.5372E-03	0.1867E-02
76	0.3055E-02	-0.2420E-01	-0.1132E-01	-0.1660E-02	-0.3746E-03	0.1826E-02
77	0.3047E-02	-0.2873E-01	-0.1216E-01	-0.1696E-02	-0.2460E-03	0.1800E-02
78	0.3048E-02	-0.3547E-01	-0.1297E-01	-0.1577E-02	-0.1660E-03	0.1571E-02
9021	0.3052E-02	-0.6079E-01	-0.1128E-01	-0.7284E-03	0.2303E-03	0.3096E-03
79	0.3057E-02	-0.5916E-01	-0.2654E-02	0.1199E-03	0.3170E-03	-0.3075E-03
80	0.3058E-02	-0.5535E-01	0.5860E-03	0.4422E-03	0.2682E-03	-0.3706E-03
81	0.3059E-02	-0.5434E-01	0.1286E-02	0.5219E-03	0.2492E-03	-0.3717E-03
82	0.2335E-02	-0.5052E-01	0.2107E-02	0.7186E-03	0.1604E-03	-0.3710E-03
9022	0.4117E-03	-0.2780E-01	0.2115E-02	0.9587E-03	0.1274E-04	-0.2496E-03
83	0.6234E-03	-0.5805E-02	0.2123E-02	0.6609E-03	-0.6233E-05	-0.1283E-03
84	0.6346E-03	-0.4317E-02	0.2123E-02	0.6069E-03	-0.1574E-05	-0.1172E-03
85	0.6353E-03	-0.3333E-02	0.2124E-02	0.5655E-03	0.2411E-05	-0.1093E-03
86	0.3040E-03	-0.2105E-03	0.6236E-03	0.2543E-03	0.2371E-04	-0.6486E-04
87	-0.1302E-09	-0.5505E-09	-0.2522E-09	0.1779E-09	0.1667E-12	-0.6589E-10

COUPLED MODE SHAPES (FOR SECONDARY MODE) MODE 7
FREQUENCY (HZ.) = 3.43011

MODAL DISP AT PRIMARY SYSTEM CONNETING DOF

DOF #	DISPLACEMENT
3041	0.2740E-06
3042	0.0000E+00
3043	0.5551E-06
3061	0.6014E-06
3063	0.1866E-05
3072	0.0000E+00
3081	0.8820E-06
3103	0.6716E-05
3121	0.1492E-05
3122	0.0000E+00
3123	0.8763E-05
3091	0.9840E-06
3092	0.0000E+00
3093	0.4161E-05

MODAL DISPLACEMENTS AT SECONDARY SYSTEM DOF

NODE	DX	DY	DZ	ROT-X	ROT-Y	ROT-Z
1	-0.9297E-09	-0.2348E-08	0.7164E-08	0.6727E-09	-0.3018E-08	-0.8505E-09
2	0.9085E-02	-0.3447E-03	0.7150E-02	0.9648E-03	-0.2894E-02	-0.1032E-02
3	0.3602E-01	-0.1825E-01	0.9148E-01	0.3681E-02	-0.8269E-02	-0.2682E-02
4	0.3599E-01	-0.1005E+00	0.3725E+00	0.8665E-02	-0.1152E-01	-0.3063E-02
5	0.3597E-01	-0.1374E+00	0.5211E+00	0.1067E-01	-0.1031E-01	-0.2319E-02
9001	0.3704E-01	-0.1415E+00	0.5456E+00	0.1119E-01	-0.9743E-02	-0.2025E-02
9002	0.3959E-01	-0.1441E+00	0.5743E+00	0.1148E-01	-0.9228E-02	-0.1714E-02
6	0.4250E-01	-0.1449E+00	0.6008E+00	0.1182E-01	-0.8732E-02	-0.1401E-02
7	0.4542E-01	-0.1449E+00	0.6277E+00	0.1201E-01	-0.8146E-02	-0.1210E-02
9003	0.4571E-01	-0.1450E+00	0.1039E+01	0.8004E-02	0.1423E-02	0.8519E-03
9004	0.6984E-02	-0.1451E+00	0.1060E+01	-0.9004E-02	0.1099E-01	0.9006E-03
9	0.4060E-02	-0.1452E+00	0.2353E+00	-0.3776E-01	0.2056E-01	-0.1096E-02
10	0.1265E-01	-0.1452E+00	-0.2441E-01	-0.4386E-01	0.2222E-01	-0.1554E-02
9005	0.7573E-01	-0.1453E+00	-0.1775E+01	-0.6472E-01	0.3035E-01	-0.1941E-02
9006	0.1029E+00	-0.1454E+00	-0.3676E+01	-0.6648E-01	0.3847E-01	0.7558E-03
11	-0.7168E-03	-0.1454E+00	-0.5757E+01	-0.5120E-01	0.4660E-01	0.6412E-02
12	-0.8334E-01	-0.1455E+00	-0.6263E+01	-0.4250E-01	0.4940E-01	0.9048E-02
9007	-0.1011E+00	-0.1406E+00	-0.6365E+01	-0.3943E-01	0.4970E-01	0.1000E-01
9008	-0.1155E+00	-0.1262E+00	-0.6485E+01	-0.3672E-01	0.4982E-01	0.1098E-01
13	-0.1211E+00	-0.1046E+00	-0.6597E+01	-0.3432E-01	0.5017E-01	0.1199E-01
14	-0.1211E+00	-0.7057E-01	-0.6736E+01	-0.3101E-01	0.5056E-01	0.1276E-01
15	-0.1211E+00	0.1132E-01	-0.7041E+01	-0.2380E-01	0.5113E-01	0.1456E-01
16	-0.1211E+00	0.2199E+00	-0.7759E+01	-0.7033E-02	0.5155E-01	0.1778E-01
17	-0.6448E-01	0.2928E+00	-0.7896E+01	-0.3289E-02	0.5148E-01	0.1805E-01
18	0.1875E+00	0.1834E+00	-0.8148E+01	0.4485E-02	0.5125E-01	0.1988E-01
19	0.5411E+00	0.4580E+00	-0.8501E+01	0.1609E-01	0.5065E-01	0.2186E-01
20	0.1452E+01	0.2847E+00	-0.9412E+01	0.5014E-01	0.4862E-01	0.2375E-01
21	0.1498E+01	0.1998E+00	-0.9322E+01	0.6291E-01	0.4718E-01	0.2087E-01
9009	0.8045E+00	0.2001E+00	-0.5917E+01	0.1038E+00	0.4350E-01	0.1416E-01
9010	0.3380E+00	0.2005E+00	-0.1298E+01	0.1219E+00	0.3983E-01	0.9331E-02
22	0.4344E-01	0.2008E+00	0.3482E+01	0.1116E+00	0.3616E-01	0.5491E-02
23	-0.1131E-03	0.2008E+00	0.4406E+01	0.1057E+00	0.3538E-01	0.4770E-02

24	-0.6727E-01	0.2009E+00	0.6025E+01	0.9143E-01	0.3188E-01	0.3451E-02
9011	-0.1410E+00	0.2012E+00	0.8476E+01	0.5362E-01	0.3062E-01	0.1032E-02
9012	-0.1409E+00	0.2014E+00	0.9532E+01	0.9120E-02	0.2776E-01	-0.9472E-03
25	-0.8392E-01	0.2017E+00	0.9100E+01	-0.3406E-01	0.2470E-01	-0.2361E-02
26	-0.6007E-01	0.2017E+00	0.8722E+01	-0.4512E-01	0.2383E-01	-0.2666E-02
9013	0.4603E-01	0.2020E+00	0.6527E+01	-0.7572E-01	0.2058E-01	-0.3207E-02
9014	0.1581E+00	0.2022E+00	0.3604E+01	-0.8483E-01	0.1734E-01	-0.2990E-02
27	0.2501E+00	0.2025E+00	0.8293E+00	-0.6707E-01	0.1409E-01	-0.2104E-02
28	0.2748E+00	0.2025E+00	0.2833E-01	-0.5298E-01	0.1288E-01	-0.1635E-02
29	0.3000E+00	0.2027E+00	-0.7991E+00	-0.3046E-01	0.1104E-01	-0.8667E-03
9015	0.3060E+00	0.2029E+00	-0.1300E+01	0.1249E-02	0.7622E-02	0.5167E-03
9016	0.2658E+00	0.2031E+00	-0.8834E+00	0.1843E-01	0.4200E-02	0.1544E-02
30	0.1994E+00	0.2034E+00	-0.1180E+00	0.1973E-01	0.7780E-03	0.1859E-02
31	0.1976E+00	0.2034E+00	-0.9831E-01	0.1954E-01	0.6863E-03	0.1855E-02
32	0.1932E+00	0.1827E+00	-0.4780E-01	0.1840E-01	0.4001E-03	0.1864E-02
35	0.1917E+00	0.1356E+00	-0.2601E-01	0.1722E-01	0.5177E-04	0.1872E-02
37	0.1898E+00	-0.2490E-02	-0.2793E-01	0.1568E-01	-0.4922E-03	0.1797E-02
9017	0.1474E+00	-0.4277E+00	-0.2762E-01	9.1049E-01	-0.1945E-02	0.1510E-02
9018	0.7569E-01	-0.5779E+00	-0.2732E-01	0.4926E-02	-0.2278E-02	0.1224E-02
38	0.1264E-01	-0.7473E+00	-0.2701E-01	-0.5795E-03	-0.1401E-02	0.9372E-03
39	0.7708E-03	-0.7126E+00	-0.2691E-01	-0.2252E-02	-0.8568E-03	0.8453E-03
9019	-0.2566E-02	-0.5750E+00	-0.2658E-01	-0.6674E-02	0.4062E-03	0.5438E-03
40	0.1214E-01	-0.3018E+00	-0.2626E-01	-0.8940E-02	0.2023E-03	0.2422E-03
41	0.9750E-03	-0.3466E-01	-0.2597E-01	-0.8843E-02	-0.1153E-02	-0.1844E-04
43	-0.4297E-02	-0.2579E-02	-0.2001E-01	-0.8418E-02	-0.1705E-02	-0.1570E-03
44	-0.4296E-02	-0.2809E-02	-0.1746E-01	-0.8352E-02	-0.1727E-02	-0.1818E-05
45	-0.4292E-02	-0.3645E-02	-0.1075E-01	-0.6122E-02	-0.1665E-02	-0.2475E-03
9020	-0.4263E-02	-0.1361E-01	0.2226E-01	-0.6406E-02	-0.7039E-03	-0.3206E-03
46	-0.4234E-02	-0.1517E-01	0.3234E-01	-0.4689E-02	-0.5951E-04	0.3397E-03
47	-0.4231E-02	-0.1400E-01	0.3244E-01	-0.4508E-02	-0.1059E-04	0.4515E-03
91	-0.5600E-02	-0.1400E-01	0.1896E-01	-0.4443E-02	-0.1072E-04	0.4701E-03
92	-0.1167E-01	-0.1400E-01	-0.2829E-01	-0.3954E-02	-0.1169E-04	0.6128E-03
93	-0.1424E-01	-0.3160E-03	-0.4248E-01	-0.3465E-02	-0.2749E-04	0.7385E-03
94	-0.1433E-01	0.1068E-01	-0.4248E-01	-0.3314E-02	-0.2975E-04	0.7966E-03
95	-0.1449E-01	0.2672E-01	-0.4248E-01	-0.3094E-02	-0.3571E-04	0.8661E-03
96	-0.1468E-01	0.4165E-01	-0.4248E-01	-0.2872E-02	-0.4493E-04	0.9757E-03
97	-0.1470E-01	0.4236E-01	-0.4248E-01	-0.2861E-02	-0.4548E-04	0.9802E-03
98	-0.1093E-01	0.5245E-01	-0.3288E-01	-0.2393E-02	-0.5548E-04	0.1103E-02
100	-0.5830E-02	0.5245E-01	-0.2254E-01	-0.2203E-02	-0.7168E-04	0.1161E-02
101	-0.2290E-02	0.5245E-01	-0.1612E-01	-0.2077E-02	-0.8249E-04	0.1198E-02
102	0.2324E-02	0.5245E-01	-0.8350E-02	-0.2067E-02	-0.1042E-03	0.1263E-02
113	-0.2668E-02	0.6310E-01	-0.1612E-01	-0.1333E-02	-0.3437E-04	0.1046E-02
114	-0.2731E-02	0.6748E-01	-0.1613E-01	-0.7779E-03	0.1987E-05	0.9050E-03
115	-0.2656E-02	0.6979E-01	-0.1613E-01	-0.3575E-03	0.3010E-04	0.7638E-03
116	-0.2372E-02	0.7064E-01	-0.1613E-01	0.1034E-04	0.5628E-04	0.5560E-03
118	-0.3266E-02	0.7045E-01	-0.1587E-01	0.1602E-03	0.7919E-04	0.4214E-03
9023	-0.7114E-02	0.7057E-01	0.1106E-02	0.1181E-02	0.1421E-03	-0.8805E-04
120	-0.1897E-02	0.7029E-01	0.5998E-01	0.3085E-02	0.2050E-03	-0.2101E-03
122	-0.9679E-03	0.6263E-01	0.6733E-01	0.3565E-02	0.2102E-03	-0.1934E-03
1..	-0.7470E-04	0.4697E-01	0.6733E-01	0.3779E-02	0.2084E-03	-0.1731E-03
125	0.1952E-02	0.8236E-02	0.6733E-01	0.3702E-02	0.1906E-03	-0.1245E-03
127	0.2117E-02	0.1720E-03	0.5951E-01	0.3331E-02	0.1806E-03	-0.1062E-03
129	0.3916E-03	0.1014E-03	0.1016E-02	0.1046E-02	0.1066E-03	-0.3462E-04
9024	0.3569E-04	0.5071E-04	-0.4531E-02	-0.2093E-03	0.5330E-04	-0.7370E-05
130	-0.7927E-11	0.1109E-08	-0.5847E-09	-0.6955E-10	0.3027E-11	0.1893E-12
48	-0.4229E-02	-0.1253E-01	0.3240E-01	-0.4489E-02	0.3593E-04	0.5357E-03
49	-0.4224E-02	-0.9486E-02	0.3203E-01	-0.4457E-02	0.1101E-03	0.6919E-03
50	-0.4219E-02	-0.5610E-02	0.3139E-01	-0.4425E-02	0.1793E-03	0.8676E-03
51	-0.4218E-02	-0.4272E-02	0.3101E-01	-0.4415E-02	0.1990E-03	0.9241E-03
52	-0.4213E-02	0.1389E-02	0.2972E-01	-0.4380E-02	0.2669E-03	0.1146E-02
53	-0.4190E-02	0.3878E-01	0.2036E-01	-0.4224E-02	0.4785E-03	0.1932E-02
54	-0.4157E-02	0.1166E+00	0.1590E-02	-0.3993E-02	0.5132E-03	0.2171E-02
55	-0.4156E-02	0.1182E+00	0.1211E-02	-0.3986E-02	0.5109E-03	0.2164E-02
56	-0.2248E-02	0.1410E+00	-0.6755E-03	-0.3911E-02	0.5062E-03	0.2054E-02
57	-0.1104E-02	0.1498E+00	-0.6727E-03	-0.3901E-02	0.5006E-03	0.2018E-02
58	-0.1102E-03	0.1576E+00	-0.6702E-03	-0.3881E-02	0.4936E-03	0.1986E-02
59	0.1354E-02	0.1692E+00	-0.6664E-03	-0.3846E-02	0.4835E-03	0.1937E-02
103	0.1361E-02	0.1622E+00	0.9773E-03	-0.3786E-02	0.3550E-03	0.1737E-02
104	0.1402E-02	0.1484E+00	0.2753E-02	-0.3543E-02	0.1027E-03	0.1367E-02
105	0.1414E-02	0.1443E+00	0.3063E-02	-0.3464E-02	0.1142E-03	0.1391E-02
106	0.1427E-02	0.1400E+00	0.3476E-02	-0.3385E-02	0.1717E-03	0.1453E-02
107	0.1475E-02	0.1218E+00	0.8532E-02	-0.3084E-02	0.8256E-03	0.1715E-02
109	0.2893E-02	0.1235E+00	0.9879E-02	-0.3036E-02	0.9493E-03	0.1771E-02
111	0.5625E-02	0.1339E+00	0.9878E-02	-0.2975E-02	0.4935E-03	0.1869E-02
112	0.6061E-02	0.1381E+00	0.9377E-02	-0.2953E-02	0.5753E-04	0.1910E-02
60	0.2767E-02	0.1807E+00	-0.6625E-03	-0.3805E-02	0.4794E-03	0.1893E-02
61	0.4218E-02	0.1920E+00	-0.6586E-03	-0.3760E-02	0.4823E-03	0.1849E-02
62	0.4337E-02	0.1930E+00	-0.6583E-03	-0.3756E-02	0.4828E-03	0.1845E-02
63	0.6187E-02	0.2001E+00	0.1236E-02	-0.3551E-02	0.5046E-03	0.1776E-02
64	0.6180E-02	0.1808E+00	0.6452E-02	-0.3296E-02	0.3580E-03	0.1766E-02
65	0.6177E-02	0.1719E+00	0.8210E-02	-0.3162E-02	0.2847E-03	0.1806E-02
131	0.2997E-03	0.1719E+00	-0.2051E-02	-0.3159E-02	0.2847E-03	0.1807E-02
132	-0.5576E-02	0.1719E+00	-0.1232E-01	-0.3159E-02	0.2847E-03	0.1807E-02
66	0.6175E-02	0.1627E+00	0.9301E-02	-0.3076E-02	0.1600E-03	0.1852E-02
67	0.6173E-02	0.1548E+00	0.9768E-02	-0.3003E-02	0.6821E-04	0.1888E-02
68	0.6172E-02	0.1491E+00	0.9877E-02	-0.2951E-02	0.1125E-04	0.1913E-02
69	0.6173E-02	0.1433E+00	0.9798E-02	-0.2899E-02	-0.5673E-04	0.1936E-02
70	0.6173E-02	0.1389E+00	0.9610E-02	-0.2860E-02	-0.1032E-03	0.1953E-02
71	0.6174E-02	0.1291E+00	0.8847E-02	-0.2773E-02	-0.1925E-03	0.1987E-02
133	-0.2617E-03	0.1291E+00	-0.1710E-03	-0.2773E-02	-0.1925E-03	0.1986E-02
134	-0.6744E-02	0.1291E+00	-0.9191E-02	-0.2773E-02	-0.1925E-03	0.1987E-02
72	0.6174E-02	0.1190E+00	0.7685E-02	-0.2689E-02	-0.2602E-03	0.2009E-02
73	0.6173E-02	0.7584E-01	0.7934E-03	-0.2315E-02	-0.2750E-03	0.1772E-02
74	0.6173E-02	0.7148E-01	0.1420E-03	-0.2273E-02	-0.2479E-03	0.1710E-02
75	0.6172E-02	0.6325E-01	-0.9719E-03	-0.2188E-02	-0.1969E-03	0.1565E-02
76	0.6172E-02	0.5582E-01	-0.1829E-02	-0.2104E-02	-0.1451E-03	0.1389E-02
77	0.6172E-02	0.5245E-01	-0.2159E-02	-0.2062E-02	-0.1189E-03	0.1289E-02
78	0.6172E-02	0.4748E-01	-0.2593E-02	-0.1978E-02	-0.9836E-04	0.1192E-02
9021	0.6171E-02	0.2218E-01	-0.3577E-02	-0.1378E-02	0.2109E-04	0.6205E-03
79	0.6170E-02	0.9699E-02	-0.1841E-02	-0.7787E-03	0.9140E-04	0.2937E-03
80	0.6170E-02	0.6885E-02	-0.7636E-03	-0.5508E-03	0.1049E-03	0.2319E-03

81	0.6170E-02	0.6279E-02	-0.4778E-03	-0.4945E-03	0.1071E-03	0.2219E-03
82	0.5752E-02	0.3896E-02	-0.6567E-04	-0.3471E-03	0.1128E-03	0.1815E-03
9022	0.2874E-02	-0.7174E-03	-0.6439E-04	-0.5606E-04	0.1063E-03	0.1068E-03
83	0.5580E-03	-0.4288E-03	-0.6312E-04	0.4635E-04	0.6880E-04	0.3213E-04
84	0.4028E-03	-0.3177E-03	-0.6300E-04	0.4630E-04	0.6362E-04	0.2533E-04
85	0.2991E-03	-0.2392E-03	-0.6292E-04	0.4531E-04	0.6010E-04	0.2047E-04
86	0.1494E-04	-0.1647E-04	-0.2469E-04	0.2312E-04	0.3019E-04	-0.1072E-05
87	0.3218E-10	-0.1915E-09	-0.4155E-10	0.1295E-10	0.2119E-10	-0.7223E-11

COUPLED MODE SHAPES (FOR SECONDARY MODE) MODE 6
FREQUENCY (HZ.) = 3.60057

MODAL DISP AT PRIMARY SYSTEM CONNETING DOF

DOF #	DISPLACEMENT
3041	0.3816E-05
3042	0.0000E+00
3043	-0.1179E-06
3061	0.7106E-05
3063	-0.3960E-06
3072	0.0000E+00
3081	0.8584E-05
3103	-0.1426E-05
3121	0.9364E-05
3122	0.0000E+00
3123	-0.1860E-05
3091	0.8699E-05
3092	0.0000E+00
3093	-0.8831E-06

MODAL DISPLACEMENTS AT SECONDARY SYSTEM DOF

NODE	DX	DY	DZ	ROT-X	ROT-Y	ROT-Z
1	-0.1019E-07	0.7074E-09	0.1174E-08	0.1538E-09	-0.2323E-09	0.2034E-08
2	0.6660E-03	0.5214E-02	0.7575E-03	-0.1461E-03	-0.4501E-03	0.2316E-02
3	0.7035E-02	0.7377E-01	0.2293E-01	-0.3179E-03	-0.2752E-02	0.7158E-02
4	0.6709E-02	0.3619E+00	0.1487E+00	0.9086E-04	-0.6490E-02	0.1438E-01
5	0.6546E-02	0.5779E+00	0.2455E+00	0.2965E-03	-0.7910E-02	0.1776E-01
9001	-0.2706E-02	0.6112E+00	0.2604E+00	0.3502E-03	-0.8241E-02	0.1864E-01
9002	-0.2899E-01	0.6373E+00	0.2728E+00	0.4263E-03	-0.8525E-02	0.1946E-01
6	-0.6631E-01	0.6473E+00	0.2780E+00	0.4743E-03	-0.8763E-02	0.2019E-01
7	-0.1123E+00	0.6473E+00	0.2791E+00	0.4834E-03	-0.9023E-02	0.2057E-01
9003	-0.8483E+00	0.6473E+00	0.2867E+00	-0.4042E-03	-0.1324E-01	0.1587E-01
9004	-0.1038E+01	0.6473E+00	0.2282E+00	-0.3045E-02	-0.1753E-01	-0.4908E-02
9	0.3407E-01	0.6472E+00	0.4559E-01	-0.7102E-02	-0.2179E-01	-0.5253E-01
10	0.3974E+00	0.6472E+00	-0.2261E-02	-0.7932E-02	-0.2252E-01	-0.6112E-01
9005	0.2800E+01	0.6472E+00	-0.3066E+00	-0.1125E-01	-0.2614E-01	-0.8824E-01
9006	0.5671E+01	0.6471E+00	-0.6894E+00	-0.1350E-01	-0.2975E-01	-0.9153E-01
11	0.8313E+01	0.6470E+00	-0.1107E+01	-0.1360E-01	-0.3336E-01	-0.7440E-01
12	0.9062E+01	0.6470E+00	-0.1254E+01	-0.1363E-01	-0.3460E-01	-0.6458E-01
9007	0.9180E+01	0.6157E+00	-0.1262E+01	-0.1361E-01	-0.3484E-01	-0.6098E-01
9008	0.9261E+01	0.5347E+00	-0.1233E+01	-0.1357E-01	-0.3511E-01	-0.5729E-01
13	0.9289E+01	0.4308E+00	-0.1173E+01	-0.1356E-01	-0.3542E-01	-0.5354E-01
14	0.9289E+01	0.2873E+00	-0.1075E+01	-0.1356E-01	-0.3567E-01	-0.5063E-01
15	0.9289E+01	0.2647E-02	-0.8597E+00	-0.1357E-01	-0.3619E-01	-0.4421E-01
16	0.9289E+01	-0.5066E+00	-0.3467E+00	-0.1360E-01	-0.3731E-01	-0.2905E-01
17	0.9288E+01	-0.5632E+00	-0.2473E+00	-0.1416E-01	-0.3769E-01	-0.2347E-01
18	0.9062E+01	-0.5902E+00	-0.6141E-01	-0.1305E-01	-0.3814E-01	-0.1475E-01
19	0.8796E+01	-0.5645E+00	0.2048E+00	-0.1150E-01	-0.3656E-01	-0.2388E-02
20	0.8094E+01	-0.1340E+00	0.9072E+00	-0.7467E-02	-0.3729E-01	0.3037E-01
21	0.7856E+01	-0.2213E-01	0.9743E+00	-0.8531E-02	-0.3672E-01	0.4113E-01
9009	0.5521E+01	-0.2213E-01	0.6226E+00	-0.9030E-02	-0.2857E-01	0.7109E-01
9010	0.2548E+01	-0.2213E-01	0.2566E+00	-0.9064E-02	-0.2042E-01	0.7135E-01
22	0.2818E+00	-0.2213E-01	-0.8804E-01	-0.7885E-02	-0.1227E-01	0.3505E-01
23	0.3577E-01	-0.2213E-01	-0.1533E+00	-0.7454E-02	-0.1054E-01	0.2238E-01
24	-0.1282E+00	-0.2213E-01	-0.2675E+00	-0.6470E-02	-0.7211E-02	-0.1441E-02
9011	0.5489E+00	-0.2213E-01	-0.4435E+00	-0.3974E-02	-0.4260E-03	-0.3581E-01
9012	0.2057E+01	-0.2212E-01	-0.5287E+00	-0.1104E-02	0.6361E-02	-0.5135E-01
25	0.3766E+01	-0.2212E-01	-0.5183E+00	0.1665E-02	0.1315E-01	-0.4935E-01
26	0.4239E+01	-0.2212E-01	-0.4991E+00	0.2373E-02	0.1508E-01	-0.4585E-01
9013	0.5520E+01	-0.2212E-01	-0.3767E+00	0.4316E-02	0.2226E-01	-0.2426E-01
9014	0.5849E+01	-0.2211E-01	-0.2076E+00	0.4935E-02	0.2948E-01	0.6828E-02
27	0.5003E+01	-0.2211E-01	-0.4691E-01	0.3824E-02	0.3669E-01	0.4082E-01
28	0.4340E+01	-0.2211E-01	-0.1780E-02	0.2934E-02	0.3938E-01	0.5311E-01
29	0.3147E+01	-0.2210E-01	0.4222E-01	0.1508E-02	0.4345E-01	0.6964E-01
9015	0.1115E+00	-0.2210E-01	0.5785E-01	-0.5269E-03	0.5104E-01	0.9054E-01
9016	-0.3440E+01	-0.2209E-01	0.1356E-01	-0.1688E-02	0.5863E-01	0.9724E-01
30	-0.7003E+01	-0.2208E-01	-0.5693E-01	-0.1927E-02	0.6622E-01	0.9202E-01
31	-0.7095E+01	-0.2208E-01	-0.5886E-01	-0.1921E-02	0.6643E-01	0.9176E-01
32	-0.7263E+01	-0.2000E-01	-0.6391E-01	-0.1879E-02	0.6721E-01	0.9027E-01
35	-0.7142E+01	-0.1508E-01	-0.6596E-01	-0.1628E-02	0.6818E-01	0.8904E-01
37	-0.6601E+01	-0.3578E-04	-0.6597E-02	-0.1733E-02	0.6963E-01	0.8595E-01
9017	-0.4288E+01	0.4866E-01	-0.6598E-01	-0.1245E-02	0.7121E-01	0.7412E-01
9018	-0.2097E+01	0.7903E-01	-0.6599E-01	-0.6091E-03	0.6259E-01	0.6229E-01
38	-0.3827E+00	0.8714E-01	-0.6600E-01	0.1181E-03	0.4089E-01	0.5045E-01
39	-0.8145E-02	0.8466E-01	-0.6601E-01	0.3603E-03	0.3096E-01	0.4666E-01
9019	0.5298E+00	0.5955E-01	-0.6601E-01	0.1091E-02	0.3114E-02	0.3421E-01
40	0.3662E+00	0.1215E-01	-0.6602E-01	0.1559E-02	-0.1014E-01	0.2176E-01
41	0.4784E-01	-0.4196E-01	-0.6602E-01	0.1990E-02	-0.9485E-02	0.1100E-01
43	0.1552E-01	-0.1451E-01	-0.3656E-01	0.2348E-02	-0.6823E-02	0.8398E-02
44	0.1551E-01	-0.2708E-02	-0.2701E-01	0.2363E-02	-0.6443E-02	0.7994E-02
45	0.1547E-01	0.3571E-01	-0.4362E-02	0.2403E-02	-0.5437E-02	0.6949E-02
9020	0.1517E-01	0.1274E+00	0.6293E-01	0.2702E-02	-0.2257E-04	0.6547E-03
46	0.1486E-01	0.8828E-01	0.3587E-01	0.3001E-02	0.1170E-02	-0.2906E-02
47	0.1481E-01	0.7920E-01	0.3247E-01	0.3032E-02	0.1049E-02	-0.3120E-02
91	0.2415E-01	0.7919E-01	0.4153E-01	0.3033E-02	0.9440E-03	-0.3093E-02
92	0.5873E-01	0.7916E-01	0.7676E-01	0.3369E-02	0.1888E-03	-0.3169E-02

93	0.7073E-01	0.6491E-01	0.9027E-01	0.4031E-02	-0.1988E-03	-0.1459E-02
94	0.6986E-01	0.5150E-01	0.9026E-01	0.4203E-02	-0.3004E-03	-0.3637E-02
95	0.6804E-01	0.2988E-01	0.9024E-01	0.4394E-02	-0.3790E-03	-0.3911E-02
96	0.6607E-01	0.7528E-02	0.9022E-01	0.4493E-02	-0.3613E-03	-0.4185E-02
97	0.6598E-01	0.6402E-02	0.9022E-01	0.4496E-02	-0.3578E-03	-0.4199E-02
98	0.6827E-01	-0.1057E-01	0.7329E-01	0.4437E-02	-0.1818E-03	-0.4510E-02
100	0.2768E-01	-0.1059E-01	0.5353E-01	0.4291E-02	-0.1226E-04	-0.4593E-02
101	0.1383E-01	-0.1060E-01	0.4082E-01	0.4141E-02	0.1006E-03	-0.4605E-02
102	-0.3582E-02	-0.1061E-01	0.2533E-01	0.4069E-02	0.2672E-03	-0.4648E-02
113	0.1400E-01	-0.3319E-01	0.4081E-01	0.3198E-02	-0.7665E-04	-0.4023E-02
114	0.1337E-01	-0.4507E-01	0.4081E-01	0.2437E-02	-0.2102E-03	-0.3482E-02
115	0.1224E-01	-0.5397E-01	0.4081E-01	0.1791E-02	-0.3126E-03	-0.2940E-02
116	0.9936E-02	-0.6266E-01	0.4081E-01	0.1054E-02	-0.4055E-03	-0.2142E-02
118	0.1304E-01	-0.6455E-01	0.4259E-01	0.5233E-03	-0.4873E-03	-0.1626E-02
9023	0.2795E-01	-0.6448E-01	0.2613E-01	-0.1584E-02	-0.6867E-03	0.3138E-03
120	0.7900E-02	-0.6442E-01	-0.4356E-01	-0.3212E-02	-0.8861E-03	0.8127E-03
122	0.4104E-02	-0.5680E-01	-0.5101E-01	-0.3464E-02	-0.9002E-03	0.7501E-03
124	0.2899E-02	-0.4184E-01	-0.5101E-01	-0.3537E-02	-0.8886E-03	0.6743E-03
125	-0.8334E-02	-0.7005E-02	-0.5101E-01	-0.3207E-02	-0.8097E-03	0.4932E-03
127	-0.9100E-02	-0.1476E-03	-0.4446E-01	-0.2738E-02	-0.7671E-03	0.4254E-03
129	-0.1980E-02	-0.8704E-04	-0.4706E-03	-0.7151E-03	-0.4523E-03	0.1530E-03
9024	-0.2729E-03	-0.4352E-04	0.3073E-02	0.1520E-03	-0.2261E-03	0.4177E-04
130	0.2768E-10	-0.9515E-09	0.4089E-09	0.4867E-10	-0.1284E-10	0.5223E-12
48	0.1481E-01	0.6943E-01	0.2930E-01	0.3100E-02	0.1056E-02	-0.3395E-02
49	0.1477E-01	0.5130E-01	0.2400E-01	0.3212E-02	0.1054E-02	-0.3856E-02
50	0.1474E-01	0.3087E-01	0.1876E-01	0.3325E-02	0.1034E-02	-0.4318E-02
51	0.1472E-01	0.2429E-01	0.1721E-01	0.3359E-02	0.1025E-02	-0.4457E-02
52	0.1468E-01	-0.1610E-02	0.1168E-01	0.3483E-02	0.9750E-03	-0.4967E-02
53	0.1450E-01	-0.1452E+00	-0.6991E-02	0.4029E-02	0.4850E-03	-0.6677E-02
54	0.1423E-01	-0.3999E+00	0.1573E-04	0.4835E-02	-0.1042E-02	-0.7135E-02
55	0.1422E-01	-0.4052E+00	0.8111E-03	0.4852E-02	-0.1085E-02	-0.7118E-02
56	0.8724E-02	-0.4501E+00	0.5711E-02	0.4962E-02	-0.1375E-02	-0.6861E-02
57	0.5049E-02	-0.4613E+00	0.5709E-02	0.4984E-02	-0.1605E-02	-0.6795E-02
58	0.1810E-02	-0.4713E+00	0.5708E-02	0.4998E-02	-0.1602E-02	-0.6718E-02
59	-0.3004E-02	-0.4863E+00	0.5706E-02	0.5010E-02	-0.1571E-02	-0.6602E-02
103	-0.3034E-02	-0.4622E+00	0.5156E-03	0.4969E-02	-0.1027E-02	-0.6201E-02
104	-0.3156E-02	-0.4086E+00	-0.2291E-02	0.4805E-02	0.1276E-03	-0.5626E-02
105	-0.3196E-02	-0.3916E+00	-0.1833E-02	0.4752E-02	0.1369E-03	-0.5775E-02
106	-0.3235E-02	-0.3739E+00	-0.1614E-02	0.4699E-02	-0.3193E-04	-0.5988E-02
107	-0.3386E-02	-0.3017E+00	-0.1262E-01	0.4497E-02	-0.2331E-02	-0.6460E-02
109	-0.7546E-02	-0.2987E+00	-0.1651E-01	0.4470E-02	-0.2823E-02	-0.6473E-02
111	-0.1581E-01	-0.3138E+00	-0.1651E-01	0.4495E-02	-0.1528E-02	-0.6482E-02
112	-0.1721E-01	-0.3202E+00	-0.1651E-01	0.4537E-02	-0.2105E-03	-0.6487E-02
60	-0.7669E-02	-0.5013E+00	0.5704E-02	0.5011E-02	-0.1525E-02	-0.6495E-02
61	-0.1217E-01	-0.5164E+00	0.5702E-02	0.5005E-02	-0.1465E-02	-0.6388E-02
62	-0.1254E-01	-0.5176E+00	0.5702E-02	0.5004E-02	-0.1459E-02	-0.6379E-02
63	-0.1767E-01	-0.5130E+00	0.8835E-03	0.4936E-02	-0.1162E-02	-0.6172E-02
64	-0.1766E-01	-0.4457E+00	-0.9815E-02	0.4738E-02	-0.7572E-03	-0.6122E-02
65	-0.1769E-01	-0.4150E+00	-0.1308E-01	0.4649E-02	-0.5361E-03	-0.6195E-02
131	0.2433E-02	-0.4150E+00	0.2017E-02	0.4645E-02	-0.5361E-03	-0.6191E-02
132	0.2257E-01	-0.4150E+00	0.1713E-01	0.4646E-02	-0.5361E-03	-0.6192E-02
66	-0.1768E-01	-0.3836E+00	-0.1518E-01	0.4605E-02	-0.3205E-03	-0.6330E-02
67	-0.1768E-01	-0.3565E+00	-0.1618E-01	0.4567E-02	-0.1641E-03	-0.6428E-02
68	-0.1768E-01	-0.3371E+00	-0.1651E-01	0.4541E-02	-0.6861E-04	-0.6467E-02
69	-0.1768E-01	-0.3176E+00	-0.1648E-01	0.4517E-02	0.8864E-04	-0.6536E-02
70	-0.1768E-01	-0.3028E+00	-0.1621E-01	0.4499E-02	0.1624E-03	-0.6570E-02
71	-0.1768E-01	-0.2698E+00	-0.1480E-01	0.4460E-02	0.3426E-03	-0.6621E-02
133	0.3809E-02	-0.2698E+00	-0.3889E-03	0.4461E-02	0.3426E-03	-0.6615E-02
134	0.2532E-01	-0.2698E+00	0.1612E-01	0.4461E-02	0.3426E-03	-0.6616E-02
72	-0.1767E-01	-0.2364E+00	-0.1278E-01	0.4408E-02	0.4898E-03	-0.6688E-02
73	-0.1761E-01	-0.9180E-01	0.2861E-02	0.4176E-02	0.8164E-03	-0.6015E-02
74	-0.1760E-01	-0.7695E-01	0.4923E-02	0.4150E-02	0.8093E-03	-0.5840E-02
75	-0.1759E-01	-0.4865E-01	0.8867E-02	0.4098E-02	0.7133E-03	-0.5427E-02
76	-0.1757E-01	-0.2263E-01	0.1206E-01	0.4046E-02	0.5081E-03	-0.4931E-02
77	-0.1757E-01	-0.1062E-01	0.1320E-01	0.4020E-02	0.3648E-03	-0.4651E-02
78	-0.1757E-01	0.7035E-02	0.1446E-01	0.3759E-02	0.2895E-03	-0.4174E-02
9021	-0.1757E-01	0.8484E-01	0.1413E-01	0.1898E-02	-0.2386E-03	-0.1482E-02
79	-0.1757E-01	0.1037E+00	0.3663E-02	0.3693E-04	-0.4377E-03	-0.6715E-04
80	-0.1757E-01	0.1031E+00	-0.1120E-02	-0.6702E-03	-0.4311E-03	0.1286E-03
81	-0.1757E-01	0.1028E+00	-0.2272E-02	-0.8449E-03	-0.4225E-03	0.1478E-03
82	-0.1610E-01	0.9788E-01	-0.3799E-02	-0.1285E-02	-0.3731E-03	0.2078E-03
9022	-0.8045E-02	0.5504E-01	-0.3806E-02	-0.1862E-02	-0.2610E-03	0.1699E-03
83	-0.2484E-02	0.1154E-01	-0.3814E-02	-0.1332E-02	-0.1779E-03	0.1321E-03
84	-0.2077E-02	0.8537E-02	-0.3815E-02	-0.1228E-02	-0.1716E-03	0.1266E-03
85	-0.1795E-02	0.6542E-02	-0.3815E-02	-0.1148E-02	-0.1673E-03	0.1262E-03
86	-0.3506E-03	0.3618E-03	-0.1148E-02	-0.5301E-03	-0.1143E-03	0.1036E-03
87	0.2657E-10	0.1139E-08	0.2513E-09	-0.3724E-09	-0.4033E-10	0.1178E-09

COUPLED MODE SHAPES (FOR SECONDARY MODE) MODE 9
FREQUENCY (HZ.) = 3.69836

MODAL DISP AT PRIMARY SYSTEM CONNETING DOF

DOF #	DISPLACEMENT
3041	0.1980E-06
3042	0.0000E+00
3043	-0.1324E-06
3061	-0.1555E-06
3063	-0.6448E-06
3072	0.0000E+00
3081	-0.1538E-06
3103	-0.1601E-05
3121	-0.1431E-05
3122	0.0000E+00
3123	-0.2090E-05
3091	-0.3451E-06
3092	0.0000E+00
3093	-0.9922E-06

MODAL DISPLACEMENTS AT SECONDARY SYSTEM DOF

NODE	DX	DY	DZ	ROT-X	ROT-Y	ROT-Z
1	-0.6754E-09	-0.5857E-10	-0.1628E-09	-0.3769E-10	0.5327E-10	0.8615E-10
2	-0.1151E-03	0.1180E-03	-0.1110E-03	-0.5533E-04	0.3363E-04	0.1070E-03
3	-0.3059E-03	0.2863E-02	-0.3791E-03	-0.1714E-03	-0.2192E-04	0.3451E-03
4	-0.3254E-03	0.1747E-01	0.3552E-02	-0.3351E-03	0.3045E-03	0.7650E-03
5	-0.3362E-03	0.2926E-01	0.8950E-02	-0.4172E-03	0.5122E-03	0.1001E-02
9001	-0.8632E-03	0.3119E-01	0.9752E-02	-0.4252E-03	0.5721E-03	0.1067E-02
9002	-0.2380E-02	0.3270E-01	0.9982E-02	-0.4300E-03	0.6247E-03	0.1130E-02
6	-0.4561E-02	0.3328E-01	0.9488E-02	-0.4396E-03	0.6714E-03	0.1187E-02
7	-0.7277E-02	0.3328E-01	0.8487E-02	-0.4475E-03	0.7243E-03	0.1218E-02
9003	-0.5244E-01	0.3328E-01	-0.8078E-02	-0.3933E-03	0.1590E-02	0.1091E-02
9004	-0.6497E-01	0.3327E-01	-0.1636E-01	0.5437E-06	-0.2456E-02	-0.5416E-03
9	0.2292E-02	0.3326E-01	-0.4176E-02	3.7151E-03	-0.3322E-02	-0.3319E-02
10	0.2527E-01	0.3326E-01	0.8643E-03	0.8701E-03	-0.3472E-02	-0.3867E-02
9005	0.1767E+00	0.3326E-01	0.1643E-01	0.1273E-02	-0.4208E-02	-0.5827E-02
9006	0.3543E+00	0.3325E-01	0.7292E-01	0.9356E-03	-0.4943E-02	-0.5569E-02
11	0.5109E+00	0.3324E-01	0.8791E-01	-0.9123E-04	-0.5679E-02	-0.4245E-02
12	0.5528E+00	0.3324E-01	0.8433E-01	-0.5923E-03	-0.5932E-02	-0.3532E-02
9007	0.5592E+00	0.3155E-01	0.8605E-01	-0.7650E-03	-0.5967E-02	-0.3273E-02
9008	0.5636E+00	0.2725E-01	0.9312E-01	-0.9146E-03	-0.5995E-02	-0.3008E-02
13	0.5650E+00	0.2186E-01	0.1039E+00	-0.1048E-02	-0.6039E-02	-0.2734E-02
14	0.5650E+00	0.1460E-01	0.1206E+00	-0.1235E-02	-0.6081E-02	-0.2529E-02
15	0.5650E+00	0.8134E-03	0.1574E+00	-0.1641E-02	-0.6157E-02	-0.2063E-02
16	0.5650E+00	-0.2051E-01	0.2442E+00	-0.2547E-02	-0.6270E-02	-0.1017E-02
17	0.5581E+00	-0.1970E-01	0.2606E+00	-0.2836E-02	-0.6296E-02	-0.6325E-03
18	0.5272E+00	-0.6862E-02	0.2917E+00	-0.3165E-02	-0.6317E-02	-0.1418E-03
19	0.4834E+00	0.1796E-01	0.3356E+00	-0.3597E-02	-0.6316E-02	0.5194E-03
20	0.3688E+00	0.1175E+00	0.4501E+00	-0.4555E-02	-0.6111E-02	0.2083E-02
21	0.3437E+00	0.1360E+00	0.4481E+00	-0.4939E-02	-0.5988E-02	0.2605E-02
9009	0.2111E+00	0.1360E+00	0.2293E+00	-0.5843E-02	-0.5189E-02	0.3718E-02
9010	0.6991E-01	0.1360E+00	-0.6802E-02	-0.5723E-02	-0.4391E-02	0.2986E-02
22	-0.9239E-05	0.1360E+00	-0.2131E+00	-0.4359E-02	-0.3592E-02	0.1263E-03
23	0.2573E-02	0.1360E+00	-0.2483E+00	-0.3916E-02	-0.3423E-02	-0.7619E-03
24	0.2876E-01	0.1360E+00	-0.3049E+00	-0.2971E-02	-0.3097E-02	-0.2353E-02
9011	0.1445E+00	0.1360E+00	-0.3694E+00	-0.8684E-03	-0.2432E-02	-0.4276E-02
9012	0.2959E+00	0.1360E+00	-0.3635E+00	0.1173E-02	-0.1767E-02	-0.4516E-02
25	0.4304E+00	0.1360E+00	-0.2963E+00	0.2733E-02	-0.1102E-02	-0.3329E-02
26	0.4595E+00	0.1360E+00	-0.2688E+00	0.3041E-02	-0.9131E-03	-0.2773E-02
9013	0.5144E+00	0.1360E+00	-0.1504E+00	0.3424E-02	-0.2076E-03	-0.2322E-03
9014	0.4724E+00	0.1359E+00	-0.4203E-01	0.2444E-02	0.4979E-03	0.2614E-02
27	0.3339E+00	0.1359E+00	0.5360E-02	-0.3174E-04	0.1203E-02	0.5086E-02
28	0.2616E+00	0.1359E+00	-0.3487E-02	-0.1349E-02	0.1467E-02	0.5809E-02
29	0.1369E+00	0.1359E+00	-0.4844E-01	-0.2935E-02	0.1866E-02	0.6575E-02
9015	-0.1173E+00	0.1358E+00	-0.1700E+00	-0.2910E-02	0.2609E-02	0.6748E-02
9016	-0.1474E+00	0.1358E+00	-0.2201E+00	0.8449E-03	0.3353E-02	0.5320E-02
30	-0.4995E+00	0.1357E+00	-0.6515E-01	0.8015E-02	0.4097E-02	0.2665E-02
31	-0.5022E+00	0.1357E+00	-0.5702E-01	0.8252E-02	0.4117E-02	0.2581E-02
32	-0.5018E+00	0.1257E+00	-0.3354E-01	0.9549E-02	0.4223E-02	0.2140E-02
35	-0.4947E+00	0.9859E-01	-0.2357E-01	0.1085E-01	0.4348E-02	0.1781E-02
37	-0.4574E+00	-0.1354E-02	-0.2258E-01	0.1281E-01	0.4495E-02	0.8441E-03
9017	-0.3051E+00	-0.4994E+00	-0.2264E-01	0.1684E-01	0.4814E-02	-0.2753E-02
9018	-0.1532E+00	-0.1027E+01	-0.2270E-01	0.1469E-01	0.4419E-02	-0.6350E-02
38	-0.2904E-01	-0.1394E+01	-0.2276E-01	0.7172E-02	0.3071E-02	-0.9947E-02
39	-0.4208E-03	-0.1451E+01	-0.2277E-01	0.3788E-02	0.2420E-02	-0.1110E-01
9019	0.4468E-01	-0.1372E+01	-0.2283E-01	-0.8752E-02	0.2955E-03	-0.1488E-01
40	0.2431E-01	-0.8473E+00	-0.2289E-01	-0.2201E-01	-0.1414E-02	-0.1867E-01
41	-0.3459E-01	-0.3532E-01	-0.2294E-01	-0.3301E-01	-0.2526E-02	-0.2194E-01
43	-0.4453E-01	0.1017E-01	-0.1265E-01	-0.3623E-01	-0.2890E-02	-0.2338E-01
44	-0.4453E-01	-0.2215E-01	-0.8460E-02	-0.3689E-01	-0.2947E-02	-0.2251E-01
45	-0.4454E-01	-0.1088E+00	0.3065E-02	-0.3866E-01	-0.3119E-02	-0.2268E-01
9020	-0.4454E-01	-0.6623E+00	0.1065E+00	-0.5187E-01	-0.3922E-02	-0.1259E-01
46	-0.4455E-01	-0.6454E+00	0.2162E+00	-0.6509E-01	-0.3569E-02	0.1723E-01
47	-0.4455E-01	-0.5876E+00	0.2268E+00	-0.6648E-01	-0.3467E-02	0.2149E-01
91	-0.1098E+00	-0.5876E+00	0.2719E-01	-0.6666E-01	-0.3584E-02	0.2244E-01
92	-0.3987E+00	-0.5871E+00	-0.7292E+00	-0.6784E-01	-0.4426E-02	0.2877E-01
93	-0.5312E+00	-0.3302E+00	-0.9854E+00	-0.6816E-01	-0.5384E-02	0.3357E-01
94	-0.5509E+00	-0.1092E+00	-0.9854E+00	-0.6766E-01	-0.5464E-02	0.3570E-01
95	-0.5784E+00	0.2264E+00	-0.9854E+00	-0.6593E-01	-0.5462E-02	0.3899E-01
96	-0.6056E+00	0.5505E+00	-0.9854E+00	-0.6305E-01	-0.5324E-02	0.4227E-01
97	-0.6069E+00	0.5661E+00	-0.9854E+00	-0.6287E-01	-0.5314E-02	0.4244E-01
98	-0.4558E+00	0.7915E+00	-0.7696E+00	-0.5411E-01	-0.4324E-02	0.4722E-01
100	-0.2380E+00	0.7916E+00	-0.5349E+00	-0.5016E-01	-0.3979E-02	0.4962E-01
101	-0.8675E-01	0.7917E+00	-0.3884E+00	-0.4751E-01	-0.3749E-02	0.5126E-01
102	0.1110E+00	0.7920E+00	-0.2112E+00	-0.4696E-01	-0.3979E-02	0.5427E-01
113	-0.1043E+00	0.1042E+01	-0.9484E+00	-0.3306E-01	-0.1703E-02	0.4480E-01
114	-0.1080E+00	0.1157E+01	-0.3855E+00	-0.2198E-01	-0.1528E-03	0.3677E-01
115	-0.1056E+00	0.1230E+01	-0.3855E+00	-0.1326E-01	0.1049E-02	0.3274E-01
116	-0.9510E-01	0.1282E+01	-0.3855E+00	-0.4834E-02	0.2173E-02	0.2987E-01
118	-0.1349E+00	0.1289E+01	-0.3925E+00	-0.3389E-03	0.3161E-02	0.1812E-01
9023	-0.3016E+00	0.1287E+01	-0.8583E-01	0.2363E-01	0.5914E-02	-0.1675E-02
120	-0.8045E-01	0.1286E+01	0.1057E+01	0.5817E-01	0.8668E-02	-0.8937E-02
122	-0.4103E-01	0.1143E+01	0.1194E+01	0.6601E-01	0.8899E-02	-0.8226E-02
124	-0.3203E-02	0.8547E+00	0.1194E+01	0.6941E-01	0.8829E-02	-0.7360E-02
125	0.8270E-01	0.1486E+00	0.1194E+01	0.6703E-01	0.8078E-02	-0.5291E-02
127	0.8966E-01	0.3084E-02	0.1053E+01	0.5940E-01	0.7663E-02	-0.4511E-02
129	0.1648E-01	0.1818E-02	0.1701E-01	0.1829E-01	0.4518E-02	-0.1464E-02
9024	0.1469E-02	0.9092E-03	-0.7610E-01	-0.3689E-02	0.2259E-02	-0.3085E-03
130	-0.3379E-09	0.1988E-07	-0.1025E-07	-0.1221E-08	0.1283E-09	0.8463E-11
48	-0.4454E-01	-0.5199E+00	0.2368E+00	-0.6741E-01	-0.3174E-02	0.2433E-01
49	-0.4451E-01	-0.3851E+00	0.2514E+00	-0.6896E-01	-0.2633E-02	0.3043E-01
50	-0.4449E-01	-0.2155E+00	0.2631E+00	-0.7051E-01	-0.2030E-02	0.3826E-01
51	-0.4448E-01	-0.1566E+00	0.2660E+00	-0.7098E-01	-0.1838E-02	0.4094E-01
52	-0.4445E-01	0.9636E-01	0.2742E+00	-0.7269E-01	-0.1094E-02	0.5208E-01
53	-0.4433E-01	0.1913E+01	0.2546E+00	-0.8021E-01	0.2886E-02	0.9311E-01
54	-0.4415E-01	0.5653E+01	0.2029E-07	-0.9131E-01	0.1059E-01	0.1063E+00
55	-0.4415E-01	0.5733E+01	0.1235E-01	-0.9154E-01	0.1078E-01	0.1059E+00
56	0.4086E-02	0.6471E+01	-0.3211E-01	-0.9267E-01	0.1416E-01	0.1011E+00

57	0.3686E-01	0.6680E+01	-0.3207E-01	-0.9279E-01	0.1491E-01	0.9935E-01
58	0.6767E-01	0.6866E+01	-0.3203E-01	-0.9276E-01	0.1545E-01	0.9778E-01
59	0.1154E+00	0.7144E+01	-0.3197E-01	-0.9246E-01	0.1590E-01	0.9544E-01
103	0.1157E+00	0.6799E+01	0.2093E-01	-0.9095E-01	0.1071E-01	0.8698E-01
104	0.1171E+00	0.6082E+01	0.5781E-01	-0.8482E-01	0.1589E-03	0.7292E-01
105	0.1175E+00	0.5862E+01	0.5799E-01	-0.8284E-01	0.3673E-03	0.7486E-01
106	0.1180E+00	0.5632E+01	0.6146E-01	-0.8085E-01	0.2359E-02	0.7823E-01
107	0.1196E+00	0.4670E+01	0.2023E+00	-0.7326E-01	0.2667E-01	0.8788E-01
108	0.1665E+00	0.4646E+01	0.2464E+00	-0.7210E-01	0.3159E-01	0.8898E-01
111	0.2562E+00	0.4688E+01	0.2464E+00	-0.7135E-01	0.1661E-01	0.9073E-01
112	0.2728E+00	0.4989E+01	0.2463E+00	-0.7138E-01	0.1791E-02	0.9147E-01
60	0.1637E+00	0.7421E+01	-0.3190E-01	-0.9181E-01	0.1609E-01	0.9327E-01
61	0.2121E+00	0.7696E+01	-0.3184E-01	-0.9112E-01	0.1605E-01	0.9110E-01
62	0.2163E+00	0.7719E+01	-0.3183E-01	-0.9104E-01	0.1604E-01	0.9092E-01
63	0.2755E+00	0.7725E+01	0.2563E-01	-0.8756E-01	0.1439E-01	0.8892E-01
64	0.2757E+00	0.6783E+01	0.1639E+00	-0.8014E-01	0.9998E-02	0.8580E-01
65	0.2758E+00	0.6352E+01	0.2071E+00	-0.7705E-01	0.6924E-02	0.8720E-01
131	-0.7721E-02	0.6352E+01	-0.4302E-01	-0.7698E-01	0.6924E-02	0.8720E-01
132	-0.2913E+00	0.6352E+01	-0.2934E+00	-0.7698E-01	0.6924E-02	0.8721E-01
66	0.2759E+00	0.5910E+01	0.2332E+00	-0.7474E-01	0.3785E-02	0.8916E-01
67	0.2759E+00	0.5528E+01	0.2440E+00	-0.7278E-01	0.1548E-02	0.9061E-01
68	0.2760E+00	0.5254E+01	0.2463E+00	-0.7140E-01	0.2063E-03	0.9152E-01
69	0.2761E+00	0.4978E+01	0.2440E+00	-0.7004E-01	-0.1540E-02	0.9233E-01
70	0.2761E+00	0.4770E+01	0.2390E+00	-0.6902E-01	-0.2709E-02	0.9286E-01
71	0.2763E+00	0.4303E+01	0.2193E+00	-0.6675E-01	-0.4876E-02	0.9377E-01
133	-0.2837E-01	0.4303E+01	0.2147E-02	-0.6676E-01	-0.4876E-02	0.9373E-01
134	-0.3332E+00	0.4303E+01	-0.2150E+00	-0.6677E-01	-0.4876E-02	0.9374E-01
72	0.2763E+00	0.3830E+01	0.1902E+00	-0.6438E-01	-0.6485E-02	0.9432E-01
73	0.2765E+00	0.1832E+01	0.1562E-01	-0.5303E-01	-0.7315E-02	0.8040E-01
74	0.2765E+00	0.1634E+01	-0.2076E-02	-0.5264E-01	-0.6819E-02	0.7715E-01
75	0.2765E+00	0.1265E+01	-0.3367E-01	-0.5027E-01	-0.5774E-02	0.6959E-01
76	0.2766E+00	0.9379E+00	-0.5986E-01	0.4790E-01	-0.4658E-02	0.6060E-01
77	0.2766E+00	0.7920E+00	-0.7060E-01	-0.4671E-01	-0.4075E-02	0.5555E-01
78	0.2766E+00	0.5795E+00	-0.8561E-01	-0.4193E-01	-0.3332E-02	0.5063E-01
9021	0.2765E+00	-0.4348E+00	-0.1142E+00	-0.2405E-01	0.1042E-02	0.3244E-01
79	0.2765E+00	-0.8224E+00	-0.4158E-01	-0.4172E-02	0.3730E-02	0.6899E-02
80	0.2765E+00	-0.8812E+00	0.2367E-02	0.3380E-02	0.4296E-02	0.4360E-02
81	0.2765E+00	-0.8923E+00	0.1410E-01	0.5247E-02	0.4397E-02	0.4020E-02
82	0.2592E+00	-0.8745E+00	0.3108E-01	0.1002E-01	0.4692E-02	0.2873E-02
9022	0.1373E+00	-0.5067E+00	0.3113E-01	0.1674E-01	0.4605E-02	0.1389E-02
83	0.3349E-01	-0.1065E+00	0.3117E-01	0.1250E-01	0.3268E-02	-0.9481E-04
84	0.2607E-01	-0.7827E-01	0.3117E-01	0.1156E-01	0.3082E-02	-0.2299E-03
85	0.2103E-01	-0.5547E-01	0.3118E-01	0.1084E-01	0.2943E-02	-0.3265E-03
86	0.2690E-02	-0.2786E-02	0.9473E-02	0.5076E-02	0.1672E-02	-0.7154E-03
87	0.1317E-08	-0.1110E-07	-0.1380E-08	0.3539E-08	0.7828E-09	-0.9526E-09

COUPLED MODE SHAPES (FOR SECONDARY MODE) MODE 10
FREQUENCY (HZ.) = 4.25906

MODAL DISP AT PRIMARY SYSTEM CONNETING DOF

DOF #	DISPLACEMENT
3041	0.1031E-05
3042	0.0000E+00
3043	0.8386E-06
3061	0.2513E-05
3063	0.2818E-05
3072	0.0000E+00
3081	0.4025E-05
3103	0.1015E-04
3121	0.7854E-05
3122	0.0000E+00
3123	0.1324E-04
3091	0.4646E-05
3092	0.0000E+00
3093	0.6286E-05

MODAL DISPLACEMENTS AT SECONDARY SYSTEM DOF

NODE	DX	DY	DZ	ROT-X	ROT-Y	ROT-Z
1	0.1880E-08	-0.5442E-08	-0.1620E-07	-0.9845E-09	0.1481E-07	-0.2875E-08
2	-0.3514E-01	-0.9053E-02	-0.3529E-01	-0.5764E-03	0.1459E-01	-0.3055E-02
3	-0.1852E+00	-0.1020E+00	-0.4800E+00	-0.1542E-02	0.4554E-01	-0.8556E-02
4	-0.1851E+00	-0.4031E+00	-0.2253E+01	-0.3662E-02	0.8478E-01	-0.1307E-01
5	-0.1851E+00	-0.5807E+00	-0.3482E+01	-0.4724E-02	0.9827E-01	-0.1320E-01
9001	-0.1785E+00	-0.6054E+00	-0.3672E+01	-0.5085E-02	0.1012E+00	-0.1302E-01
9002	-0.1608E+00	-0.6232E+00	-0.3820E+01	-0.5600E-02	0.1037E+00	-0.1279E-01
6	-0.1370E+00	-0.6296E+00	-0.3864E+01	-0.5804E-02	0.1058E+00	-0.1251E-01
7	-0.1091E+00	-0.6296E+00	-0.3897E+01	-0.5714E-02	0.1081E+00	-0.1231E-01
9003	0.2564E+00	-0.6298E+00	-0.3920E+01	0.8555E-02	0.1454E+00	-0.6786E-02
9004	0.3395E+00	-0.6300E+00	-0.3023E+01	0.4309E-01	0.1827E+00	0.2952E-02
9	-0.4980E-02	-0.6301E+00	-0.5822E+00	0.9152E-01	0.2201E+00	0.1635E-01
10	-0.1175E+00	-0.6302E+00	0.3085E-01	0.1010E+00	0.2265E+00	0.1890E-01
9005	-0.8826E+00	-0.6302E+00	0.3787E+01	0.1345E+00	0.2582E+00	0.2953E-01
9006	-0.1938E+01	-0.6303E+00	0.8179E+01	0.1425E+00	0.2897E+00	0.3763E-01
11	-0.3225E+01	-0.6304E+00	0.1250E+02	0.1317E+00	0.3216E+00	0.4476E-01
12	-0.3719E+01	-0.6304E+00	0.1388E+02	0.1253E+00	0.3326E+00	0.4740E-01
9007	-0.3809E+01	-0.6063E+00	0.1385E+02	0.1229E+00	0.3348E+00	0.4834E-01
9008	-0.3676E+01	-0.5392E+00	0.1365E+02	0.1206E+00	0.3375E+00	0.4931E-01
13	-0.3901E+01	-0.4458E+00	0.1308E+02	0.1187E+00	0.3404E+00	0.5031E-01
14	-0.3901E+01	-0.3062E+00	0.1214E+02	0.1165E+00	0.3425E+00	0.5108E-01
15	-0.3901E+01	0.5329E-02	0.1007E+02	0.1116E+00	0.3471E+00	0.5279E-01
16	-0.3901E+01	0.7682E+00	0.5160E+01	0.1002E+00	0.3560E+00	0.5639E-01
17	-0.3508E+01	0.8113E+00	0.4212E+01	0.9753E-01	0.3587E+00	0.5782E-01
18	-0.1742E+01	0.6308E+00	0.2446E+01	0.9286E-01	0.3615E+00	0.5880E-01
19	0.7747E+00	0.4210E+00	-0.7044E-01	0.8651E-01	0.3636E+00	0.5994E-01
20	0.7431E+01	0.9798E-01	-0.6727E+01	0.7098E-01	0.3594E+00	0.6168E-01

21	0.8145E+01	0.7950E-01	-0.7421E+01	0.6849E-01	0.3553E+00	0.6336E-01
9009	0.5514E+01	0.7962E-01	-0.5017E+01	0.5578E-01	0.3293E+00	0.6798E-01
9010	0.2777E+01	0.7974E-01	-0.2849E+01	0.5269E-01	0.3033E+00	0.6639E-01
22	0.4021E+00	0.7985E-01	-0.6160E+00	0.4788E-01	0.2773E+00	0.4877E-01
23	0.1324E-01	0.7967E-01	-0.4162E+00	0.4617E-01	0.2717E+00	0.4253E-01
24	-0.5795E+00	0.7981E-01	0.3075E+00	0.4203E-01	0.2611E+00	0.3005E-01
9011	-0.1191E+01	0.8000E-01	0.1524E+01	0.3008E-01	0.2395E+00	0.7290E-02
9012	-0.1117E+01	0.8008E-01	0.2277E+01	0.1460E-01	0.2170E+00	-0.1083E-01
25	-0.5362E+00	0.8016E-01	0.2488E+01	-0.1814E-02	0.1962E+00	-0.2273E-01
26	-0.3096E+00	0.8019E-01	0.2450E+01	-0.6280E-02	0.1900E+00	-0.2482E-01
9013	0.6370E+00	0.8027E-01	0.1973E+01	-0.1964E-01	0.1670E+00	-0.2713E-01
9014	0.1517E+01	0.8035E-01	0.1144E+01	-0.2564E-01	0.1440E+00	-0.2123E-01
27	0.2066E+01	0.8042E-01	0.2717E+00	-0.2173E-01	0.1211E+00	-0.8902E-02
28	0.2147E+01	0.8045E-01	0.9856E-02	-0.1746E-01	0.1125E+00	-0.3119E-02
29	0.2119E+01	0.8049E-01	-0.2663E+00	-0.1034E-01	0.9950E-01	0.5806E-02
9015	0.1619E+01	0.8056E-01	-0.4449E+00	0.1006E-03	0.7528E-01	0.2034E-01
9016	0.6672E+00	0.8063E-01	-0.3113E+00	0.6245E-02	0.5105E-01	0.2944E-01
30	-0.4864E+00	0.8070E-01	-0.4002E-01	0.7370E-02	0.2683E-01	0.3093E-01
31	-0.5173E+00	0.8070E-01	-0.3265E-01	0.7327E-02	0.2619E-01	0.3086E-01
32	-0.5716E+00	0.7284E-01	-0.1352E-01	0.7059E-02	0.2418E-01	0.3068E-01
33	-0.5445E+00	0.5454E-01	-0.5865E-02	0.6773E-02	0.2175E-01	0.3053E-01
17	-0.3777E+00	-0.9134E-03	-0.5839E-02	0.6416E-02	0.1790E-01	0.2947E-01
9017	0.4034E-03	-0.1868E+00	-0.5739E-02	0.4922E-03	0.6304E-02	0.2538E-01
9018	0.8164E-01	-0.3122E+00	-0.5639E-02	0.2725E-02	-0.4384E-03	0.2130E-01
34	0.2368E-01	-0.3591E+00	-0.5539E-02	0.1356E-03	-0.2177E-02	0.1722E-01
35	0.1806E-02	-0.3560E+00	-0.5507E-02	-0.7201E-03	-0.1816E-02	0.1591E-01
9019	-0.2647E-01	-0.2890E+00	-0.5401E-02	-0.3054E-02	-0.4519E-04	0.1161E-01
40	-0.1437E-01	-0.1602E+00	-0.5295E-02	-0.4274E-02	0.5477E-03	0.7313E-02
41	-0.2660E-02	-0.3292E-01	-0.5204E-02	-0.4170E-02	0.8773E-34	0.3600E-02
43	-0.2793E-02	-0.6324E-02	-0.4712E-02	-0.3628E-02	-0.2175E-03	0.2659E-02
44	-0.2792E-02	-0.2593E-02	-0.4357E-02	-0.3275E-02	-0.2428E-03	0.2511E-02
45	-0.2788E-02	0.6212E-02	-0.3299E-02	-0.3635E-02	-0.2706E-03	0.2126E-02
9020	-0.2764E-02	0.3722E-01	0.4005E-02	-0.2586E-02	-0.2275E-03	0.4441E-05
46	-0.2740E-02	0.1896E-01	0.8940E-02	-0.1536E-02	-0.1080E-05	-0.7621E-03
47	-0.2738E-02	0.1665E-01	0.9280E-02	-0.1426E-02	-0.9110E-04	-0.7631E-03
91	-0.4614E-03	0.1665E-01	0.5037E-02	-0.1385E-02	-0.9718E-04	-0.7484E-03
92	0.7416E-02	0.1664E-01	-0.8928E-02	-0.1105E-02	-0.1409E-03	-0.6595E-03
93	0.9194E-02	0.2019E-01	-0.1273E-01	-0.8661E-03	-0.1713E-03	-0.6006E-03
94	0.8626E-02	0.2288E-01	-0.1273E-01	-0.8059E-03	-0.1769E-03	-0.5764E-03
95	0.7733E-02	0.2671E-01	-0.1273E-01	-0.7302E-03	-0.1808E-03	-0.5391E-03
96	0.6817E-02	0.3020E-01	-0.1273E-01	-0.6759E-03	-0.1784E-03	-0.5017E-03
97	0.6772E-02	0.3037E-01	-0.1273E-01	-0.6734E-03	-0.1782E-03	-0.4999E-03
98	0.4380E-02	0.3277E-01	-0.1038E-01	-0.6024E-03	-0.1561E-03	-0.4416E-03
100	0.2459E-02	0.3277E-01	-0.7728E-02	-0.5736E-03	-0.1437E-03	-0.4069E-03
101	0.1266E-02	0.3277E-01	-0.6037E-02	-0.5515E-03	-0.1355E-03	-0.3842E-03
102	-0.1255E-03	0.3277E-01	-0.3910E-02	-0.5785E-03	-0.1230E-03	-0.3555E-03
113	0.4341E-03	0.3535E-01	-0.6038E-02	-0.2565E-03	-0.1431E-03	-0.3431E-03
114	-0.1858E-03	0.3594E-01	-0.6039E-02	-0.4258E-04	-0.1481E-03	-0.3049E-03
115	-0.8227E-03	0.3575E-01	-0.6040E-02	0.1104E-03	-0.1510E-03	-0.2667E-03
116	-0.1772E-02	0.3461E-01	-0.6042E-02	0.2206E-03	-0.1517E-03	-0.2105E-03
118	-0.1691E-02	0.3408E-01	-0.5518E-02	0.2336E-03	-0.1527E-03	-0.1744E-03
9023	0.9910E-03	0.3405E-01	0.4092E-02	0.5415E-03	-0.1341E-03	-0.2872E-04
120	0.8055E-03	0.3401E-01	0.3104E-01	0.1452E-02	-0.1155E-03	0.2586E-04
122	0.4909E-03	0.3034E-01	0.3455E-01	0.1698E-02	-0.1123E-03	0.2628E-04
124	0.2246E-04	0.2289E-01	0.3455E-01	0.1816E-02	-0.1081E-03	0.2644E-04
125	-0.1010E-02	0.4070E-02	0.3455E-01	0.1820E-02	-0.9604E-04	0.2682E-04
127	-0.1159E-02	0.8184E-04	0.3066E-01	0.1666E-02	-0.9010E-04	0.2744E-04
129	-0.4897E-03	0.4825E-04	0.5813E-03	0.5522E-03	-0.5312E-04	0.2301E-04
9024	-0.1385E-01	0.2413E-04	-0.2264E-02	-0.1067E-03	-0.2656E-04	0.1406E-04
130	-0.3046E-11	0.5275E-09	-0.3073E-09	-0.3646E-10	-0.1508E-11	0.1228E-11
48	-0.2734E-02	0.1432E-01	0.9513E-02	-0.1419E-02	-0.6538E-04	-0.7821E-03
49	-0.2729E-02	0.1034E-01	0.9735E-02	-0.1404E-02	-0.2491E-04	-0.7962E-03
50	-0.2724E-02	0.6355E-02	0.9762E-02	-0.1397E-02	0.1228E-04	-0.7878E-03
51	-0.2723E-02	0.5173E-02	0.9735E-02	-0.1394E-02	0.2274E-04	-0.7809E-03
52	-0.2717E-02	0.9663E-03	0.9507E-02	-0.1382E-02	0.5827E-04	-0.7379E-03
53	-0.2692E-02	-0.1435E-01	0.6668E-02	-0.1329E-02	0.1592E-03	-0.5471E-03
54	-0.2654E-02	-0.3192E-01	0.7766E-03	-0.1252E-02	0.1338E-03	-0.4787E-03
55	-0.2653E-02	-0.3228E-01	0.6795E-03	-0.1250E-02	0.1313E-03	-0.4799E-03
56	-0.2219E-02	-0.2946E-01	0.2293E-03	-0.1229E-02	0.9717E-04	-0.5030E-03
57	-0.2004E-02	-0.2670E-01	0.2306E-03	-0.1222E-02	0.8194E-04	-0.5108E-03
58	-0.1864E-02	-0.2426E-01	0.2318E-03	-0.1215E-02	0.6747E-04	-0.5177E-03
59	-0.1697E-02	-0.2063E-01	0.2335E-03	-0.1203E-02	0.5330E-04	-0.5280E-03
103	-0.1697E-02	-0.1863E-01	0.4400E-03	-0.1185E-02	0.6034E-04	-0.5547E-03
104	-0.1694E-02	-0.1302E-01	0.1111E-02	-0.1109E-02	0.8223E-04	-0.6490E-03
105	-0.1693E-02	-0.1104E-01	0.1365E-02	-0.1085E-02	0.8707E-04	-0.6731E-03
106	-0.1692E-02	-0.8989E-02	0.1633E-02	-0.1061E-02	0.9127E-04	-0.6901E-03
107	-0.1688E-02	-0.1102E-02	0.2770E-02	-0.9675E-03	0.1064E-03	-0.6537E-03
109	-0.1528E-02	0.1301E-02	0.2931E-02	-0.9514E-03	0.1027E-03	-0.6239E-03
111	-0.1268E-02	0.4456E-02	0.2931E-02	-0.9169E-03	0.5029E-04	-0.5703E-03
112	-0.1201E-02	0.5742E-02	0.2931E-02	-0.8982E-03	0.1035E-04	-0.5478E-03
60	-0.1560E-02	-0.1703E-01	0.2353E-03	-0.1189E-02	0.4830E-04	-0.5379E-03
61	-0.1424E-02	-0.1349E-01	0.2370E-03	-0.1172E-02	0.5278E-04	-0.5478E-03
62	-0.1412E-02	-0.1320E-01	0.2372E-03	-0.1170E-02	0.5358E-04	-0.5487E-03
63	-0.1155E-02	-0.6800E-02	0.5638E-03	-0.1111E-02	0.1060E-03	-0.5622E-03
64	-0.1165E-02	-0.5571E-03	0.1876E-02	-0.1011E-02	0.1119E-03	-0.5654E-03
65	-0.1169E-02	0.2266E-02	0.2392E-02	-0.9660E-03	0.8534E-04	-0.5590E-03
131	0.6421E-03	0.2266E-02	-0.7422E-03	-0.9648E-03	0.8534E-04	-0.5579E-03
132	0.2457E-02	0.2266E-02	-0.1880E-02	-0.9649E-03	0.8534E-04	-0.5579E-03
66	-0.1170E-02	0.5066E-02	0.2729E-02	-0.9377E-03	0.5107E-04	-0.5575E-03
67	-0.1171E-02	0.7429E-02	0.2887E-02	-0.9136E-03	0.2415E-04	-0.5522E-03
68	-0.1172E-02	0.9079E-02	0.2931E-02	-0.8966E-03	0.6166E-05	-0.5461E-03
69	-0.1173E-02	0.1071E-01	0.2921E-02	-0.8789E-03	-0.1187E-04	-0.5378E-03
70	-0.1173E-02	0.1191E-01	0.2878E-02	-0.8656E-03	-0.2488E-04	-0.5303E-03
71	-0.1174E-02	0.1452E-01	0.2683E-02	-0.8361E-03	-0.5176E-04	-0.5097E-03
133	0.4764E-03	0.1452E-01	-0.3583E-04	-0.8362E-03	-0.5176E-04	-0.5089E-03
134	0.2134E-02	0.1452E-01	-0.2756E-02	-0.8363E-03	-0.5176E-04	-0.5090E-03
72	-0.1173E-02	0.1703E-01	0.2360E-02	-0.8068E-03	-0.7540E-04	-0.4942E-03
73	-0.1168E-02	0.2713E-01	-0.1400E-03	-0.6762E-03	-0.1361E-03	-0.4090E-03
74	-0.1168E-02	0.2814E-01	-0.4859E-03	-0.6615E-03	-0.1379E-03	-0.3979E-03
75	-0.1167E-02	0.3008E-01	-0.1180E-02	-0.6321E-03	-0.1356E-03	-0.3753E-03
76	-0.1166E-02	0.3190E-01	-0.1843E-02	-0.6027E-03	-0.1257E-03	-0.3532E-03

77	-0.1165E-02	0.3277E-01	-0.2151E-02	-0.5781E-03	-0.1179E-03	-0.3426E-03
78	-0.1165E-02	0.3404E-01	-0.2574E-02	-0.5417E-03	-0.9440E-04	-0.2933E-03
9021	-0.1164E-02	0.3820E-01	-0.3355E-02	-0.6180E-03	0.2475E-04	-0.1859E-04
79	-0.1163E-03	0.3634E-01	-0.1959E-02	-0.6442E-03	0.5726E-04	0.1217E-03
80	-0.1163E-02	0.3492E-01	-0.1378E-02	-0.6542E-03	0.4645E-04	0.1347E-03
81	-0.1162E-02	0.3456E-01	-0.1259E-02	-0.6567E-03	0.4178E-04	0.1344E-03
82	-0.1266E-02	0.3159E-01	-0.1130E-02	-0.6593E-03	0.1931E-04	0.1266E-03
9022	-0.1188E-02	0.1553E-01	-0.1128E-02	-0.5823E-03	-0.2005E-04	0.8652E-04
83	-0.4890E-03	0.3013E-02	-0.1125E-02	-0.3507E-03	-0.2898E-04	0.4645E-04
84	-0.4217E-03	0.2226E-02	-0.1125E-02	-0.3217E-03	-0.2827E-04	0.4280E-04
85	-0.3747E-03	0.1705E-02	-0.1125E-02	-0.3001E-03	-0.2760E-04	0.4019E-04
86	-0.8433E-04	0.8560E-04	-0.3583E-03	-0.1415E-03	-0.1783E-04	0.2614E-04
87	-0.3146E-10	0.1630E-09	-0.7475E-10	-0.1046E-09	0.2580E-11	0.2727E-10

COUPLED MODE SHAPES (FOR SECONDARY MODE) MODE 11
FREQUENCY (HZ.) = 5.68905

MODAL DISP AT PRIMARY SYSTEM CONNETING DOF

DOF #	DISPLACEMENT
3041	-0.5341E-07
3042	0.0000E+00
3043	0.4721E-06
3061	-0.2064E-06
3063	0.1567E-05
3072	0.0000E+00
3081	-0.4246E-06
3103	0.5712E-05
3121	-0.1092E-05
3122	0.0000E+00
3123	0.7453E-05
3091	-0.5290E-06
3092	0.0000E+00
3093	0.3539E-05

MODAL DISPLACEMENTS AT SECONDARY SYSTEM DOF

NODE	DX	DY	DZ	ROT-X	ROT-Y	ROT-Z
1	0.1402E-08	0.1585E-08	0.4074E-09	0.3274E-09	0.2144E-09	0.4672E-09
2	-0.5406E-03	0.1847E-02	-0.5486E-03	0.2710E-03	0.2595E-03	0.4542E-03
3	-0.3631E-02	0.1672E-01	-0.1048E-01	0.7572E-03	0.1160E-02	0.1127E-02
4	-0.3587E-02	0.4846E-01	-0.6659E-01	0.1584E-02	0.3139E-02	0.9637E-03
5	-0.3564E-02	0.5721E-01	-0.1162E+00	0.1999E-02	0.4310E-02	0.2581E-03
9001	-0.3609E-02	0.5748E-01	-0.1236E+00	0.2039E-02	0.4631E-02	0.6464E-05
9002	-0.3423E-02	0.5733E-01	-0.1273E+00	0.2053E-02	0.4909E-02	-0.2514E-03
6	-0.2695E-02	0.5716E-01	-0.1259E+00	0.2115E-02	0.5155E-02	-0.5043E-03
7	-0.1371E-02	0.5717E-01	-0.1211E+00	0.2160E-02	0.5434E-02	-0.6533E-03
9003	0.4859E-01	0.5723E-01	-0.3666E-01	0.7199E-02	0.9950E-02	-0.1567E-02
9004	0.8030E-01	0.5729E-01	0.2406E-01	0.8534E-03	0.1455E-01	0.3113E-03
9	-0.5379E-02	0.5734E-01	0.9204E-02	-0.4898E-02	0.1910E-01	0.4769E-02
10	-0.3883E-01	0.5735E-01	-0.4803E-02	-0.2513E-02	0.1989E-01	0.5664E-02
9005	-0.2562E+00	0.5719E-01	-0.1094E+00	-0.4743E-02	0.2376E-03	0.7514E-02
9006	-0.4684E+00	0.5743E-01	-0.1733E+00	0.5347E-04	0.2763E-01	0.5420E-02
11	-0.5624E+00	0.5746E-01	-0.6484E-01	0.7565E-02	0.3150E-01	0.1123E-03
12	-0.5509E+00	0.5747E-01	0.3456E-01	0.1104E-01	0.3283E-01	-0.2302E-02
9007	-0.5458E+00	0.5604E-01	0.3976E-01	0.1224E-01	0.3300E-01	-0.3157E-02
9008	-0.5410E+00	0.5107E-01	0.1186E-01	0.1328E-01	0.3310E-01	-0.4027E-02
13	-0.5388E+00	0.4269E-01	-0.4357E-01	0.1421E-01	0.3330E-01	-0.4910E-02
14	-0.5388E+00	0.2824E-01	-0.1356E+00	0.1549E-01	0.3351E-01	-0.5594E-02
15	-0.5386E+00	-0.9645E-02	-0.3379E+00	0.1829E-01	0.3386E-01	-0.7118E-02
16	-0.5388E+00	-0.1302E+00	-0.8136E+00	0.2480E-01	0.3420E-01	-0.9727E-02
17	-0.5012E+00	-0.1453E+00	-0.9043E+00	0.2631E-01	0.3420E-01	-0.1043E-01
18	-0.3337E+00	-0.3726E+00	-0.1072E+01	0.2882E-01	0.3412E-01	-0.1061E-01
19	-0.9785E-01	-0.6565E+00	-0.1078E+01	0.3180E-01	0.3387E-01	-0.1030E-01
20	0.5146E+00	-0.1452E+01	-0.1920E+01	0.3665E-01	0.3282E-01	-0.6450E-02
21	0.6205E+00	-0.1752E+01	-0.1868E+01	0.3703E-01	0.3233E-01	-0.4407E-02
9009	0.6375E+00	-0.1565E+01	-0.4001E+00	0.3497E-01	0.2999E-01	0.3281E-02
9010	0.3966E+00	-0.1565E+01	0.8285E+00	0.2479E-01	0.2776E-01	0.7994E-02
22	0.6430E-01	-0.1565E+01	0.1492E+01	0.7394E-02	0.2552E-01	0.7550E-02
23	0.3525E-02	-0.1565E+01	0.1537E+01	0.3091E-02	0.2505E-01	0.6680E-02
24	-0.9005E-01	-0.1565E+01	0.1521E+01	-0.4980E-02	0.2414E-01	0.4767E-02
9011	-0.1874E+00	-0.1565E+01	0.1118E+01	-0.1826E-01	0.2228E-01	0.1134E-02
9012	-0.1731E+00	-0.1564E+01	0.3731E+00	-0.2499E-01	0.2042E-01	-0.1843E-02
25	-0.7623E-01	-0.1564E+01	-0.4589E+00	-0.2334E-01	0.1856E-01	-0.3733E-02
26	-0.3923E-01	-0.1564E+01	-0.6717E+00	-0.2128E-01	0.1803E-01	-0.4028E-02
9013	0.1094E+00	-0.1563E+01	-0.1223E+01	-0.8460E-02	0.1605E-01	-0.4076E-02
9014	0.2320E+00	-0.1562E+01	-0.1200E+01	0.1046E-01	0.1408E-01	-0.2611E-02
27	0.2826E+00	-0.1562E+01	-0.4522E+00	0.3193E-01	0.1210E-01	-0.1312E-03
28	0.2773E+00	-0.1561E+01	0.2493E-01	0.4010E-01	0.1137E-01	0.9300E-03
29	0.2433E+00	-0.1561E+01	0.9141E+00	0.4665E-01	0.1025E-01	0.2431E-02
9015	0.1129E+00	-0.1559E+01	0.2452E+01	0.2919E-01	0.8169E-03	0.4306E-02
9016	-0.5862E-01	-0.1558E+01	0.2683E+01	-0.2188E-01	0.6088E-02	0.4568E-02
30	-0.2072E+00	-0.1557E+01	0.5145E+00	-0.9777E-01	0.4007E-02	0.3115E-02
31	-0.2103E+00	-0.1557E+01	0.4156E+00	-0.1001E+00	0.3951E-02	0.3054E-02
32	-0.2138E+00	-0.1418E+01	0.1345E+00	-0.1126E+00	0.3808E-02	0.2755E-02
35	-0.2078E+00	-0.1121E+01	0.6194E-02	-0.1247E+00	0.3631E-02	0.2511E-02
37	-0.1776E+00	0.5357E-02	0.6287E-02	-0.1414E+00	0.3322E-02	0.1802E-02
9017	-0.8683E-01	0.5139E+01	0.6642E-02	-0.1635E+00	0.2309E-02	-0.9169E-03
9018	-0.2769E-01	0.9515E+01	0.6997E-02	-0.1213E+00	0.1334E-02	-0.3636E-02
38	-0.1351E-02	0.1250E+02	0.7352E-02	-0.3171E-01	0.2716E-03	-0.6356E-02
39	-0.4159E-03	0.1264E+02	0.7466E-02	0.3764E-02	-0.9438E-04	-0.7227E-02
9019	-0.1667E-01	0.10655+02	0.7838E-02	0.1079E+00	-0.6165E-03	-0.1009E-01
40	-0.2709E-01	0.5791E+01	0.8210E-02	0.1673E+00	0.2399E-03	-0.1295E-01
41	0.4088E-02	0.7395E+00	0.8531E-02	0.1663E+00	0.2048E-02	-0.1542E-01
43	0.1293E-01	0.7331E-01	-0.1289E-02	0.1562E+00	0.3114E-02	-0.1403E-01
44	0.1293E-01	0.5295E-01	-0.5843E-02	0.1540E+00	0.3324E-02	-0.1371E-01
45	0.1293E-01	0.2563E-02	-0.1954E-01	0.1481E+00	0.4006E-02	-0.1269E-01

9020	0.1280E-01	-0.2394E+00	-0.1838E+00	0.1033E+00	0.6225E-02	-0.3977E-02
46	0.1287E-01	-0.2090E+00	-0.3092E+00	0.5965E-01	0.1336E-02	0.6396E-02
47	0.1287E-01	-0.1881E+00	-0.3119E+00	0.5500E-01	0.4190E-03	0.7572E-02
51	-0.1013E-01	-0.1881E+00	-0.1482E+00	0.5352E-01	0.3408E-03	0.7865E-02
92	-0.1086E+00	-0.1879E+00	0.5969E+00	0.4384E-01	-0.2213E-03	0.9434E-02
93	-0.1472E+00	-0.3330E+00	0.5501E+00	0.3611E-01	-0.5521E-03	0.1021E-01
94	-0.1491E+00	-0.4466E+00	0.5501E+00	0.3419E-01	-0.5475E-03	0.1050E-01
95	-0.1516E+00	-0.6108E+00	0.5501E+00	0.3176E-01	-0.3884E-03	0.1095E-01
96	-0.1530E+00	-0.7645E+00	0.5500E+00	0.3002E-01	-0.5321E-04	0.1141E-01
97	-0.1530E+00	-0.7719E+00	0.5500E+00	0.2995E-01	-0.3208E-04	0.1143E-01
98	-0.1072E+00	-0.8805E+00	0.4435E+00	0.2755E-01	0.9733E-03	0.1226E-01
100	-0.5106E-01	-0.8804E+00	0.3217E+00	0.2638E-01	0.1620E-02	0.1376E-01
101	-0.1228E-01	-0.8803E+00	0.2438E+00	0.2541E-01	0.2051E-02	0.1316E-01
102	0.3839E-01	-0.8803E+00	0.1474E+00	0.2576E-01	0.2490E-02	0.1394E-01
113	0.9687E-03	-0.1010E+01	0.2438E+00	0.1604E-01	0.2426E-02	0.1168E-01
114	0.1188E-01	-0.1062E+01	0.2438E+00	0.8944E-02	0.2693E-02	0.1031E-01
115	0.2378E-01	-0.1087E+01	0.2439E+00	0.3418E-02	0.2881E-02	0.8918E-02
116	0.4235E-01	-0.1090E+01	0.2439E+00	-0.1557E-02	0.3017E-02	0.6917E-02
118	0.3553E-01	-0.1084E+01	0.2370E+00	-0.3761E-02	0.3146E-02	0.5614E-02
9023	-0.4302E-01	-0.1083E+01	-0.5739E-01	-0.1907E-01	0.3108E-02	0.4601E-03
120	-0.2317E-01	-0.1082E+01	-0.9760E+00	-0.4752E-01	0.3070E-02	-0.1245E-02
122	-0.1352E-01	-0.9647E+00	-0.1089E+01	-0.5457E-01	0.3039E-02	-0.1199E-02
124	-0.7706E-03	-0.7250E+00	-0.1089E+01	-0.5790E-01	0.2954E-02	-0.1132E-02
125	0.2761E-01	-0.1284E+00	-0.1089E+01	-0.5752E-01	0.2649E-02	-0.9710E-03
127	0.3130E-01	-0.2471E-02	-0.9659E+00	-0.5258E-01	0.2493E-02	-0.9205E-03
129	0.1172E-01	-0.1457E-02	-0.1823E-01	-0.1738E-01	0.1470E-02	-0.5958E-03
9024	0.3109E-02	-0.7285E-03	0.7133E-01	0.3423E-02	0.7348E-03	-0.3259E-03
130	0.2308E-10	-0.1593E-07	0.9682E-08	0.1149E-08	0.4173E-10	-0.2620E-10
48	0.1288E-01	-0.1648E+00	-0.3119E+00	0.5416E-01	-0.3955E-03	0.8265E-02
49	0.1291E-01	-0.1200E+00	-0.3066E+00	0.5277E-01	-0.1642E-02	0.9965E-02
50	0.1293E-01	-0.6508E-01	-0.2955E+00	0.5138E-01	-0.2735E-02	0.1234E-01
51	0.1294E-01	-0.4611E-01	-0.2911E+00	0.5096E-01	-0.3029E-02	0.1318E-01
52	0.1297E-01	0.3528E-01	-0.2715E+00	0.4943E-01	-0.3975E-02	0.1679E-01
53	0.1309E-01	0.6249E+00	-0.1474E+00	0.4267E-01	-0.5464E-02	0.3035E-01
54	0.1326E-01	0.1858E+01	-0.3016E-01	0.3271E-01	0.6444E-03	0.3548E-01
55	0.1327E-01	0.1883E+01	-0.3082E-01	0.3250E-01	0.8706E-03	0.3540E-01
56	0.2287E-01	0.1896E+01	-0.3820E-01	0.3078E-01	0.3233E-02	0.3440E-01
57	0.3062E-01	0.1828E+01	-0.3824E-01	0.3039E-01	0.3585E-02	0.3398E-01
58	0.3840E-01	0.1767E+01	-0.3829E-01	0.3008E-01	0.3819E-02	0.3361E-01
59	0.5050E-01	0.1678E+01	-0.3835E-01	0.2965E-01	0.3844E-02	0.3305E-01
103	0.5058E-01	0.1557E+01	-0.2707E-01	0.2951E-01	0.1324E-02	0.3080E-01
104	0.5092E-01	0.1291E+01	-0.4709E-01	0.2892E-01	-0.4370E-02	0.2846E-01
105	0.5102E-01	0.1204E+01	-0.6089E-01	0.2873E-01	-0.4652E-02	0.2982E-01
106	0.5113E-01	0.1112E+01	-0.7442E-01	0.2854E-01	-0.4210E-02	0.3145E-01
107	0.5154E-01	0.7330E+00	-0.8655E-01	0.2780E-01	0.3802E-02	0.3303E-01
109	0.5970E-01	0.6421E+00	-0.7941E-01	0.2764E-01	0.5833E-02	0.3225E-01
111	0.7775E-01	0.5502E+00	-0.7943E-01	0.2668E-01	0.3339E-02	0.3081E-01
112	0.8064E-01	0.5129E+00	-0.7943E-01	0.2602E-01	0.1854E-03	0.3020E-01
60	0.6212E-01	0.1589E+01	-0.3841E-01	0.2927E-01	0.3561E-02	0.3254E-01
61	0.7241E-01	0.1502E+01	-0.3848E-01	0.2892E-01	0.2957E-02	0.3203E-01
62	0.7118E-01	0.1495E+01	-0.3846E-01	0.2889E-01	0.2893E-02	0.3199E-01
63	0.7994E-01	0.1271E+01	-0.3575E-01	0.2791E-01	-0.4820E-03	0.3080E-01
64	0.8026E-01	0.1[illegible]	[illegible]	0.2675E-01	-0.2195E-02	0.3010E-01
65	0.8040E-01	0.7869E+00	-0.6566E-01	0.2621E-01	-0.1934E-02	0.3005E-01
131	-0.1715E-01	0.7869E+00	0.1940E-01	0.2619E-01	-0.1934E-02	0.3003E-01
132	-0.1148E+00	0.7870E+00	0.1046E+00	0.2619E-01	-0.1934E-02	0.3003E-01
66	0.8046E-01	0.6358E+00	-0.7367E-01	0.2611E-01	-0.1293E-02	0.3025E-01
67	0.8052E-01	0.5070E+00	-0.7813E-01	0.2602E-01	-0.6616E-03	0.3025E-01
68	0.8056E-01	0.4163E+00	-0.7943E-01	0.2595E-01	-0.1686E-03	0.3016E-01
69	0.8061E-01	0.3259E+00	-0.7942E-01	0.2586E-01	0.2260E-03	0.2997E-01
70	0.8065E-01	0.2586E+00	-0.7860E-01	0.2576E-01	0.5515E-03	0.2977E-01
71	0.8074E-01	0.1108E+00	-0.7195E-01	0.2563E-01	0.1366E-02	0.2915E-02
133	-0.1393E-01	0.1109E+00	0.9297E-02	0.2562E-01	0.1366E-02	0.2914E-01
134	-0.1087E+00	0.1109E+00	0.9263E-01	0.2562E-01	0.1366E-02	0.2914E-01
72	0.8077E-01	-0.3369E-01	-0.6492E-01	0.2565E-01	0.2180E-02	0.2848E-01
73	0.8089E-01	-0.6058E+00	0.1165E-01	0.2575E-01	0.4257E-02	0.2186E-01
74	0.8090E-01	-0.6592E+00	0.2249E-01	0.2576E-01	0.4266E-02	0.2076E-01
75	0.8093E-01	-0.7573E+00	0.4369E-01	0.2579E-01	0.3976E-02	0.1834E-01
76	0.8095E-01	-0.8427E+00	0.6227E-01	0.2581E-01	0.3223E-02	0.1569E-01
77	0.8097E-01	-0.8803E+00	0.6985E-01	0.2582E-01	0.2674E-02	0.1430E-01
78	0.8096E-01	-0.9350E+00	0.7933E-01	0.2579E-01	0.2084E-02	0.1307E-01
9021	0.8093E-01	-0.1197E+01	0.9177E-01	0.2560E-01	-0.8033E-03	0.5543E-02
79	0.8090E-01	-0.1277E+01	0.5556E-01	0.2540E-01	-0.1290E-02	0.6999E-03
80	0.8088E-01	-0.1280E+01	0.4361E-01	0.2532E-01	-0.8218E-03	-0.1196E-03
81	0.8088E-01	-0.1279E+01	0.4159E-01	0.2530E-01	-0.5495E-03	-0.2171E-03
82	0.8143E-01	-0.1183E+01	0.4018E-01	0.2518E-01	0.1431E-03	-0.3239E-03
9022	0.5851E-01	-0.5689E+00	0.4012E-01	0.2184E-01	0.1432E-02	-0.4300E-03
83	0.1808E-01	-0.1085E+00	0.4005E-01	0.1306E-01	0.1495E-02	-0.5360E-03
84	0.1463E-01	-0.7919E-01	0.4004E-01	0.1197E-01	0.1442E-02	-0.5456E-03
85	0.1225E-01	-0.5983E-01	0.4004E-01	0.1117E-01	0.1396E-02	-0.5525E-03
86	0.2050E-02	-0.2094E-02	0.1269E-01	0.5242E-02	0.8456E-03	-0.5880E-03
87	0.1289E-08	-0.5931E-08	0.2200E-08	0.3842E-08	0.5695E-10	-0.6938E-09

COUPLED MODE SHAPES (FOR SECONDARY MODE) MODE 12
FREQUENCY (HZ.) = 7.46773

MODAL DISP AT PRIMARY SYSTEM CONNETING DOF

DOF #	DISPLACEMENT
3041	0.1129E-04
3042	0.0000E+00
3043	0.7239E-06
3061	0.2650E-04
3063	0.2433E-05
3072	0.0000E+00
3081	0.4121E-04
3103	0.8757E-05
3121	0.7692E-04
3122	0.0000E+00

3123	0.1143E-04
3091	0.4704E-04
3092	0.0000E+00
3093	0.5428E-05

MODAL DISPLACEMENTS AT SECONDARY SYSTEM DOF

NODE	DX	DY	DZ	ROT-X	ROT-Y	ROT-Z
1	-0.3015E-08	-0.7616E-09	-0.6109E-08	-0.8324E-10	0.4338E-08	0.6541E-10
2	-0.1022E-01	-0.1638E-04	-0.1024E-01	-0.8816E-04	0.4155E-02	0.1067E-03
3	-0.5193E-01	0.3268E-02	-0.1320E+00	-0.1694E-03	0.1213E-01	0.4880E-03
4	-0.5203E-01	0.3084E-01	-0.5796E+00	-0.1819E-03	0.2044E-01	0.1731E-02
5	-0.5207E-01	0.5895E-01	-0.8679E+00	-0.1882E-03	0.2237E-01	0.2670E-02
9001	-0.5351E-01	0.6522E-01	-0.9103E+00	-0.2075E-03	0.2268E-01	0.2954E-02
9002	-0.5779E-01	0.6945E-01	-0.9419E+00	-0.2234E-03	0.2291E-01	0.3231E-02
6	-0.6413E-01	0.7112E-01	-0.9539E+00	-0.1780E-03	0.2309E-01	0.3487E-02
7	-0.7214E-01	0.7112E-01	-0.9543E+00	-0.1085E-03	0.2329E-01	0.3628E-02
9003	-0.2121E+00	0.7108E-01	-0.9000E+00	0.4002E-02	0.2661E-01	0.3036E-02
9004	-0.2371E+00	0.7103E-01	-0.6249E+00	0.1101E-01	0.2992E-01	-0.2409E-02
9	0.8317E-02	0.7097E-01	-0.1069E+00	0.1660E-01	0.3323E-01	-0.1144E-01
10	0.8666E-01	0.7095E-01	0.1055E-02	0.1724E-01	0.3381E-01	-0.1310E-01
9005	0.5774E+00	0.7089E-01	0.5639E+00	0.1809E-01	0.3662E-01	-0.1706E-01
9006	0.1095E+01	0.7081E-01	0.1101E+01	0.1596E-01	0.3943E-01	-0.1517E-01
11	0.1495E+01	0.7073E-01	0.1560E+01	0.1372E-01	0.4225E-01	-0.1026E-01
12	0.1596E+01	0.7070E-01	0.1706E+01	0.1359E-01	0.4321E-01	-0.8530E-02
9007	0.1611E+01	0.6659E-01	0.1710E+01	0.1365E-01	0.4339E-01	-0.8006E-02
9008	0.1622E+01	0.5598E-01	0.1669E+01	0.1373E-01	0.4356E-01	-0.7493E-02
13	0.1626E+01	0.4241E-01	0.1594E+01	0.1383E-01	0.4372E-01	-0.6973E-02
14	0.1626E+01	0.2373E-01	0.1473E+01	0.1399E-01	0.4380E-01	-0.6556E-02
15	0.1626E+01	-0.1274E-01	0.1210E+01	0.1433E-01	0.4376E-01	-0.5555E-02
16	0.1625E+01	-0.6581E-01	0.6083E+00	0.2112E-01	0.4198E-01	-0.1315E-02
17	0.1671E+01	-0.8318E-01	0.4985E+00	0.1504E-01	0.4072E-01	0.9951E-03
18	0.1866E+01	-0.1438E+00	0.3029E+00	0.1542E-01	0.3904E-01	0.5141E-02
19	0.2129E+01	-0.1915E+00	0.4012E-01	0.1492E-01	0.3672E-01	0.1205E-01
20	0.2755E+01	0.1451E-01	-0.5864E+00	0.7802E-01	0.3202E-01	0.3611E-01
21	0.2677E+01	0.1055E+00	-0.6552E+00	0.1855E-01	0.3065E-01	0.4669E-01
9009	0.3683E+00	0.1049E+00	-0.8649E+00	-0.9107E-02	0.2551E-01	0.5969E-01
9010	-0.1414E+01	0.1044E+00	-0.1181E+01	-0.4532E-02	0.2036E-01	0.1996E-01
22	-0.5883E+00	0.1038E+00	-0.1122E+01	0.6103E-02	0.1522E-01	-0.6868E-01
23	0.9637E-01	0.1036E+	-0.1040E+01	0.1115E-01	0.1413E-01	-0.9303E-01
24	0.1961E+01	0.1034E+00	-0.8132E+00	0.1637E-01	0.1203E-01	-0.1303E+00
9011	0.6701E+01	0.1029E+00	-0.1503E+00	0.2204E-01	0.7751E-02	-0.1383E+00
9012	0.1038E+02	0.1023E+00	0.5726E+00	0.1986E-01	0.3469E-02	-0.7138E-01
25	0.1104E+02	0.1018E+00	0.1100E+01	0.1074E-01	-0.8128E-03	0.3444E-01
26	0.1056E+02	0.1016E+00	0.1186E+01	0.7213E-02	-0.2032E-02	0.6645E-01
9013	0.6409E+01	0.1010E+00	0.1205E+01	-0.6007E-02	-0.6575E-02	0.1597E+00
9014	-0.1455E-02	0.1004E+00	0.8031E+00	-0.1550E-01	-0.1112E-01	0.1884E+00
27	-0.6001E+01	0.9979E-01	0.3043E+00	-0.1621E-01	-0.1566E-01	0.1364E+00
28	-0.7564E+01	0.9956E-01	0.8201E-02	-0.1365E-01	-0.1736E-01	0.9774E-01
29	-0.8650E+01	0.9920E-01	-0.2143E+00	-0.8616E-02	-0.1993E-01	0.2953E-01
9015	-0.7553E+01	0.9852E-01	-0.3704E+00	0.2251E-04	-0.2472E-01	-0.9620E-01
9016	-0.2136E+01	0.9783E-01	-0.2422E+00	0.6238E-02	-0.2951E-01	-0.1836E+00
30	0.5333E+01	0.9712E-01	0.4358E-01	0.8220E-02	-0.3430E-01	-0.2039E+00
31	0.5537E+01	0.9710E-01	0.5181E-01	0.8206E-02	-0.3442E-01	-0.2035E+00
32	0.6036E+01	0.8809E-01	0.7151E-01	0.8042E-02	-0.3517E-01	-0.2007E+00
33	0.6160E+01	0.6706E-01	0.8230E-01	0.7586E-02	-0.3645E-01	-0.1981E+00
37	0.5842E+01	0.8876E-02	0.8232E-01	0.5729E-02	-0.3969E-01	-0.1912E+00
9017	0.4288E+01	-0.3179E-01	0.8239E-01	-0.2438E-02	-0.5609E-01	-0.1650E+00
9018	0.2312E+01	0.1190E+00	0.8246E-01	-0.6080E-02	-0.6288E-01	-0.1187E+00
38	0.4518E+00	0.3160E+00	0.8252E-01	-0.5366E-02	-0.4736E-01	-0.1124E+00
39	0.1234E-01	0.3666E+00	0.8253E-01	-0.4306E-02	-0.3666E-01	-0.1040E+00
9019	-0.6392E+00	0.4380E+00	0.8258E-01	0.3118E-03	-0.4132E-02	-0.7637E-01
40	-0.4473E+00	0.3435E+00	0.8261E-01	0.5097E-02	0.1237E-01	-0.4873E-01
41	-0.5318E-01	0.1458E+00	0.8263E-01	0.8039E-02	0.1186E-01	-0.2485E-01
43	-0.1256E-01	0.3508E-01	0.4561E-01	0.8025E-02	0.8609E-02	-0.1912E-01
44	-0.1264E-01	0.8191E-02	0.3355E-01	0.8142E-02	0.8146E-02	-0.1821E-01
45	-0.1259E-01	-0.5657E-01	0.4830E-02	0.8455E-02	0.6927E-02	-0.1584E-01
9020	-0.1221E-01	-0.2887E+00	-0.8666E-01	0.1079E-01	0.3870E-03	-0.1505E-02
46	-0.1182E-01	-0.2017E+00	-0.6530E-01	0.1313E-01	-0.9436E-03	0.6400E-02
47	-0.1178E-01	-0.1817E+00	-0.6263E-01	0.1337E-01	-0.7736E-03	0.6834E-02
91	-0.3212E-01	-0.1817E+00	-0.2243E-01	0.1342E-01	-0.5673E-03	0.6679E-02
92	-0.1025E+00	-0.1818E+00	0.1291E+00	0.1337E-01	0.9177E-03	0.6030E-02
93	-0.1192E+00	-0.2306E+00	0.1787E+00	0.1274E-01	0.1769E-02	0.5879E-02
94	-0.1130E+00	-0.2717E+00	0.1788E+00	0.1246E-01	0.1983E-02	0.5894E-02
95	-0.1024E+00	-0.3329E+00	0.1788E+00	0.1191E-01	0.2175E-02	0.5916E-02
96	-0.9129E-01	-0.3909E+00	0.1788E+00	0.1125E-01	0.2189E-02	0.5942E-02
97	-0.9074E-01	-0.3937E+00	0.1788E+00	0.1122E-01	0.2185E-02	0.5943E-02
98	-0.6061E-01	-0.4337E+00	0.1404E+00	0.9699E-02	0.1862E-02	0.5837E-02
100	-0.3457E-01	-0.4337E+00	0.9815E-01	0.9132E-02	0.1594E-02	0.5650E-02
101	-0.1782E-01	-0.4337E+00	0.7131E-01	0.8798E-02	0.1416E-02	0.5441E-02
102	0.2209E-02	-0.4337E+00	0.3795E-01	0.9015E-02	0.1157E-02	0.5165E-02
113	-0.8978E-02	-0.4789E+00	0.7133E-01	0.5605E-02	0.1555E-02	0.4838E-02
114	-0.2143E-02	-0.4970E+00	0.7134E-01	0.3054E-02	0.1652E-02	0.4276E-02
115	0.5038E-02	-0.5051E+00	0.7135E-01	0.1003E-02	0.1718E-32	0.3714E-02
116	0.1595E-01	-0.5043E+00	0.7137E-01	-0.9204E-03	0.1757E-02	0.2867E-02
118	0.1419E-01	-0.5013E+00	0.6785E-01	-0.1868E-02	0.1796E-02	0.2355E-02
9023	-0.1936E-01	-0.5005E+00	-0.6945E-01	-0.8737E-02	0.1688E-02	0.2209E-03
120	-0.1152E-01	-0.5005E+00	-0.4881E+00	-0.2166E-01	0.1579E-02	-0.5208E-03
122	-0.6830E-02	-0.4470E+00	-0.5395E+00	-0.2493E-01	0.1554E-02	-0.5075E-03
124	-0.3198E-03	-0.3373E+00	-0.5395E+00	-0.2658E-01	0.1508E-02	-0.4869E-03
125	0.1417E-01	-0.6065E-01	-0.5395E+00	-0.2702E-01	0.1353E-02	-0.4376E-03
127	0.1617E-01	-0.1052E-02	-0.4810E+00	-0.2525E-01	0.1272E-02	-0.4250E-03
129	0.6595E-02	-0.6204E-03	-0.1017E-01	-0.8907E-02	0.7501E-03	-0.3128E-03
9024	0.1855E-02	-0.3102E-03	0.3617E-01	0.1721E-02	0.3750E-03	-0.1887E-03
130	0.2665E-10	-0.5783E-08	0.4942E-08	0.5843E-09	0.2130E-10	-0.1640E-10
48	-0.1176E-01	-0.1600E+00	-0.6014E-01	0.1345E-01	-0.8739E-03	0.7504E-02
49	-0.1172E-01	-0.1200E+00	-0.5537E-01	0.1357E-01	-0.1020E-02	0.8325E-02
50	-0.1167E-01	-0.7678E-01	-0.4994E-01	0.1370E-01	-0.1134E-02	0.8764E-02
51	-0.1166E-01	-0.6349E-01	-0.4827E-01	0.1374E-01	-0.1162E-02	0.8819E-02

52	-0.1162E-01	-0.1472E-01	-0.4158E-01	0.1387E-01	-0.1233E-02	0.8719E-02
53	-0.1141E-01	0.1816E+00	-0.1285E-01	0.1448E-01	-0.9603E-03	0.7600E-02
54	-0.1111E-01	0.4453E+00	-0.1124E-01	0.1537E-01	0.1247E-02	0.7512E-02
55	-0.1110E-01	0.4510E+00	-0.1224E-01	0.1539E-01	0.1313E-02	0.7532E-02
56	-0.4559E-02	0.4216E+00	-0.1831E-01	0.1548E-01	0.1771E-02	0.7858E-02
57	-0.4927E-03	0.3867E+00	-0.1833E-01	0.1548E-01	0.1748E-02	0.7982E-02
58	0.3027E-02	0.3558E+00	-0.1835E-01	0.1547E-01	0.1683E-02	0.8092E-02
59	0.7961E-02	0.3094E+00	-0.1836E-01	0.1541E-01	0.1509E-02	0.8256E-02
103	0.7988E-02	0.2787E+00	-0.1394E-01	0.1533E-01	0.5274E-03	0.8248E-02
104	0.8094E-02	0.1989E+00	-0.2166E-01	0.1451E-01	-0.1699E-02	0.9191E-02
105	0.8129E-02	0.1705E+00	-0.2705E-01	0.1428E-01	-0.1816E-02	0.9769E-02
106	0.8163E-03	0.1403E+00	-0.3234E-01	0.1405E-01	-0.1667E-02	0.1029E-01
107	0.8293E-02	0.1979E-01	-0.3911E-01	0.1316E-01	0.1071E-02	0.1005E-01
109	0.1074E-01	-0.1464E-01	-0.3701E-01	0.1300E-01	0.1782E-02	0.9497E-02
111	0.1641E-01	-0.5775E-01	-0.3702E-01	0.1250E-01	0.1094E-02	0.8512E-02
112	0.1740E-01	-0.7525E-01	-0.3702E-01	0.1219E-01	0.1374E-03	0.8098E-02
60	0.1225E-01	0.2632E+00	-0.1841E-01	0.1530E-01	0.1266E-02	0.8425E-02
61	0.1570E-01	0.2175E+00	-0.1843E-01	0.1515E-01	0.9534E-03	0.8593E-02
62	0.1594E-01	0.2137E+00	-0.1843E-01	0.1514E-01	0.9238E-03	0.8607E-32
63	0.1761E-01	0.1248E+00	-0.1832E-01	0.1453E-01	-0.4168E-03	0.8866E-02
64	0.1768E-01	0.2662E-01	-0.2761E-01	0.1342E-01	-0.9656E-03	0.8845E-02
65	0.1771E-01	-0.1728E-01	-0.3232E-01	0.1292E-01	-0.7823E-03	0.8639E-02
131	-0.1028E-01	-0.1728E-01	0.9614E-02	0.1291E-01	-0.7823E-03	0.8625E-02
132	-0.3835E-01	-0.1728E-01	0.5163E-01	0.1292E-01	-0.7823E-03	0.8629E-02
66	0.1770E-01	-0.6026E-01	-0.3544E-01	0.1261E-01	-0.4566E-03	0.8484E-02
67	0.1769E-01	-0.9596E-01	-0.3679E-01	0.1235E-01	-0.1756E-03	0.8267E-02
68	0.1768E-01	-0.1205E+00	-0.3702E-01	0.1216E-01	0.2841E-04	0.8067E-02
69	0.1768E-01	-0.1444E+00	-0.3670E-01	0.1196E-01	0.1931E-03	0.7821E-02
70	0.1767E-01	-0.1618E+00	-0.3612E-01	0.1181E-01	0.3201E-03	0.7610E-02
71	0.1767E-01	-0.1987E+00	-0.3381E-01	0.1148E-01	0.6127E-03	0.7060E-02
133	-0.5243E-02	-0.1987E+00	0.3502E-02	0.1148E-01	0.6127E-03	0.7052E-02
134	-0.2820E-01	-0.1987E+00	0.4086E-01	0.1145E-01	0.6127E-03	0.7058E-02
72	0.1764E-01	-0.2327E+00	-0.2999E-01	0.1120E-01	0.8748E-03	0.6563E-02
73	0.1752E-01	-0.3598E+00	-0.4738E-02	0.9954E-02	0.1119E-02	0.5085E-02
74	0.1750E-01	-0.3723E+00	-0.2030E-02	0.9814E-02	0.1070E-02	0.5000E-02
75	0.1747E-01	-0.3970E+00	0.3114E-02	0.9533E-02	0.1016E-02	0.4903E-02
76	0.1745E-01	-0.4214E+00	0.8139E-02	0.9253E-02	0.1023E-02	0.4938E-02
77	0.1743E-01	-0.4338E+00	0.1070E-01	0.9113E-02	0.1049E-02	0.5020E-02
78	0.1743E-01	-0.4533E+00	0.1458E-01	0.9237E-02	0.8947E-03	0.4756E-02
9021	0.1743E-01	-0.5606E+00	0.2710E-01	0.1013E-01	0.7530E-04	0.2640E-02
79	0.1743E-01	-0.6063E+00	0.2385E-01	0.1101E-01	-0.2083E-03	0.7201E-03
80	0.1743E-01	-0.6115E+00	0.2172E-01	0.1135E-01	-0.1624E-03	0.3112E-03
81	0.1743E-01	-0.6123E+00	0.2131E-01	0.1144E-01	-0.1372E-03	0.2555E-03
82	0.1764E-01	-0.5696E+00	0.2095E-01	0.1162E-01	-0.6616E-05	0.1459E-03
9022	0.1416E-01	-0.2792E+00	0.2094E-01	0.1055E-01	0.2546E-03	-0.1998E-04
83	0.5785E-02	-0.5351E-01	0.2092E-01	0.6471E-02	0.3706E-03	-0.1858E-03
84	0.4915E-02	-0.3899E-01	0.2092E-01	0.5936E-02	0.3732E-03	-0.2009E-03
85	0.4290E-02	-0.2939E-01	0.2092E-01	0.5536E-02	0.3743E-03	-0.2117E-03
86	0.9334E-03	-0.9644E-03	0.6558E-02	0.2580E-02	0.2864E-03	-0.2639E-03
87	0.1704E-09	-0.3405E-08	0.6281E-09	0.1890E-08	-0.5463E-10	-0.3208E-09

COUPLED MODE SHAPES (FOR SECONDARY MODE) MODE 13
FREQUENCY (HZ.) = 8.07098

MODAL DISP AT PRIMARY SYSTEM CONNETING DOF

DOF #	DISPLACEMENT
3041	-0.2611E-05
3042	0.0000E+00
3043	0.6723E-05
3061	-0.6527E-05
3063	0.2259E-04
3072	0.0000E+00
3081	-0.1066E-04
3103	0.8133E-04
3121	-0.2137E-04
3122	0.0000E+00
3123	0.1061E-03
3091	-0.1239E-04
3092	0.0000E+00
3093	0.5039E-04

MODAL DISPLACEMENTS AT SECONDARY SYSTEM DOF

NODE	DX	DY	DZ	ROT-X	ROT-Y	ROT-Z
1	0.1754E-08	0.7635E-08	0.3164E-08	0.1438E-09	-0.4020E-08	0.3052E-08
2	0.9533E-02	0.7388E-02	0.9564E-02	-0.4777E-03	-0.3935E-02	0.3335E-02
3	0.4987E-01	0.9445E-01	0.1288E+00	-0.2526E-02	-0.1221E-01	0.8891E-02
4	0.4992E-01	0.3825E+00	0.6120E+00	-0.5982E-02	-0.2358E-01	0.1136E-01
5	0.4995E-01	0.5260E+00	0.9595E+00	-0.7720E-02	-0.2828E-01	0.9707E-02
9001	0.4530E-01	0.5436E+00	0.1010E+01	-0.7903E-02	-0.2942E-01	0.8984E-02
9002	0.3352E-01	0.5555E+00	0.1040E+01	-0.8052E-02	-0.3038E-01	0.8212E-02
6	0.1888E-01	0.5595E+00	0.1040E+01	-0.8335E-02	-0.3122E-01	0.7421E-02
7	0.2758E-02	0.5595E+00	0.1021E+01	-0.8575E-02	-0.3217E-01	0.6934E-02
9003	-0.1259E+00	0.5597E+00	0.6463E+00	-0.1139E-01	-0.4780E-01	0.5913E-03
9004	-0.8268E-01	0.5599E+00	0.2362E+00	-0.9778E-02	-0.6343E-01	-0.2269E-02
9	-0.9169E-02	0.5599E+00	0.1511E-01	-0.8374E-03	-0.7906E-01	-0.9594E-03
10	-0.4880E-02	0.5599E+00	0.1705E-01	0.1537E-02	-0.8177E-01	-0.4953E-03
9005	0.2229E-01	0.5598E+00	0.1892E+00	0.7164E-02	-0.9504E-01	-0.2682E-02
9006	0.2226E+00	0.5597E+00	0.3342E+00	-0.7188E-04	-0.1083E+00	-0.1159E-01
11	0.8243E+00	0.5595E+00	0.6488E-01	-0.1911E-01	-0.1216E+00	-0.2832E-01
12	0.1169E+01	0.5594E+00	-0.1878E+00	-0.2822E-01	-0.1262E+00	-0.3607E-01
9007	0.1239E+01	0.5403E+00	-0.1799E+00	-0.3136E-01	-0.1268E+00	-0.3891E-01
9008	0.1294E+01	0.4848E+00	-0.5023E-01	-0.3409E-01	-0.1273E+00	-0.4177E-01
13	0.1315E+01	0.4037E+00	0.1717E+00	-0.3652E-01	-0.1281E+00	-0.4462E-01
14	0.1315E+01	0.2777E+00	0.5256E+00	-0.3992E-01	-0.1288E+00	-0.4674E-01
15	0.1315E+01	-0.1616E-01	0.1303E+01	-0.4734E-01	-0.1301E+00	-0.5107E-01

16	0.1315E+01	-0.7842E+00	0.3134E+01	-0.6457E-01	-0.1322E+00	-0.5786E-01
17	0.1170E+01	-0.8656E+00	0.3486E+01	-0.6841E-01	-0.1327E+00	-0.5862E-01
18	0.5180E+00	-0.8037E+00	0.4137E+01	-0.7693E-01	-0.1329E+00	-0.6062E-01
19	-0.4017E+00	-0.6533E+00	0.5056E+01	-0.9055E-01	-0.1320E+00	-0.6235E-01
20	-0.2783E+01	0.2733E+00	0.7437E+01	-0.1351E+00	-0.1272E+00	-0.5795E-01
21	-0.2918E+01	0.5024E+00	0.7221E+01	-0.1534E+00	-0.1245E+00	-0.5064E-01
9009	-0.1302E+01	0.5015E+00	0.2668E+00	-0.1787E+00	-0.1151E+00	-0.3169E-01
9010	-0.3239E+00	0.5005E+00	-0.5941E+01	-0.1158E+00	-0.1057E+00	-0.1686E-01
22	0.1242E-01	0.4995E+00	-0.8170E+01	0.1117E-01	-0.9635E-01	0.8013E-03
23	-0.1236E-01	0.4992E+00	-0.7944E+01	0.4209E-01	-0.9436E-01	0.5084E-02
24	-0.1568E+00	0.4988E+00	-0.6792E+01	0.9677E-01	-0.9053E-01	0.1195E-01
9011	-0.6686E+00	0.4977E+00	-0.2211E+01	0.1666E+00	-0.8272E-01	0.1656E-01
9012	-0.1145E+01	0.4967E+00	0.3568E+01	0.1667E+00	-0.7490E-01	0.1040E-01
25	-0.1295E+01	0.4955E+00	0.8196E+01	0.1006E+00	-0.6708E-01	-0.2051E-02
26	-0.1256E+01	0.4952E+00	0.9020E+01	0.7228E-01	-0.6486E-01	-0.6064E-02
9013	-0.8091E+00	0.4939E+00	0.9617E+01	-0.3885E-01	-0.5657E-01	-0.1823E-01
9014	-0.5455E-01	0.4926E+00	0.6574E+01	-0.1235E+00	-0.4827E-01	-0.2262E-01
27	0.6736E+00	0.4912E+00	0.1729E+01	-0.1339E+00	-0.3998E-01	-0.1668E-01
28	0.6648E+00	0.4906E+00	0.7167E-01	-0.1133E+00	-0.3686E-01	-0.1196E-01
29	0.1022E+01	0.4897E+00	-0.1780E+01	-0.7201E-01	-0.3220E-01	-0.3583E-02
9015	0.8641E+00	0.4881E+00	-0.3124E+01	-0.2193E-02	-0.2345E-01	0.1161E-01
9016	0.2214E+00	0.4863E+00	-0.2231E+01	0.4411E-01	-0.1471E-01	0.2136E-01
30	-0.6187E+00	0.4845E+00	-0.3437E+00	0.4542E-01	-0.5969E-02	0.2193E-01
31	-0.6406E+00	0.4845E+00	-0.2954E+00	0.4785E-01	-0.5755E-02	0.2181E-01
32	-0.7033E+00	0.4341E+00	-0.1723E+00	0.4429E-01	-0.4916E-02	0.2104E-01
35	-0.7378E+00	0.3221E+00	-0.1249E+00	0.3960E-01	-0.3862E-02	0.2037E-01
37	-0.7629E+00	0.2563E-01	-0.1247E+00	0.2938E-01	-0.2016E-02	0.1879E-01
9017	-0.7076E+00	-0.2536E+00	-0.1237E+00	-0.8645E-02	0.5291E-02	0.1274E-01
9018	-0.4457E+00	0.3690E+00	-0.1227E+00	-0.2614E-01	0.1019E-01	0.6693E-02
38	-0.1004E+00	0.1225E+01	-0.1217E+00	-0.2337E-01	0.1009E-01	0.6448E-03
39	-0.1662E-02	0.1445E+01	-0.1214E+00	-0.1856E-01	0.8776E-02	-0.1293E-02
9019	0.2008E+00	0.1730E+01	-0.1203E+00	0.1829E-02	0.2963E-02	-0.7657E-02
40	0.1966E+00	0.1238E+01	-0.1192E+00	0.2552E-01	-0.3174E-02	-0.1402E-01
41	0.3051E-01	0.2511E+00	-0.1182E+00	0.4028E-01	-0.7959E-02	-0.1952E-01
43	-0.1480E-02	0.1763E-01	-0.8489E-01	0.4378E-01	-0.8923E-02	-0.2109E-01
44	-0.1481E-02	-0.1290E-01	-0.7182E-01	0.4443E-01	-0.8865E-02	-0.2124E-01
45	-0.1484E-02	-0.9476E-01	-0.3827E-01	0.4618E-01	-0.8298E-02	-0.2145E-01
9020	-0.1509E-02	-0.6242E+00	0.1158E+00	0.5922E-01	-0.2883E-02	-0.1235E-01
46	-0.1532E-02	-0.6356E+00	0.1479E+00	0.7225E-01	0.1865E-03	0.1453E-01
47	-0.1535E-02	-0.5866E+00	0.1470E+00	0.7363E-01	0.3612E-03	0.1832E-01
91	-0.5665E-01	-0.5867E+00	0.3682E+00	0.7405E-01	0.5759E-03	0.1848E-01
92	-0.2702E+00	-0.5871E+00	0.1220E+01	0.7773E-01	0.2120E-02	0.1944E-01
93	-0.3341E+00	-0.8890E+00	0.1518E+01	0.8144E-01	0.3060E-02	0.1994E-01
94	-0.3235E+00	-0.1155E+01	0.1517E+01	0.8202E-01	0.3439E-02	0.2021E-01
95	-0.3048E+00	-0.1567E+01	0.1517E+01	0.8199E-01	0.4061E-02	0.2062E-01
96	-0.2829E+00	-0.1975E+01	0.1517E+01	0.8102E-01	0.4696E-02	0.2103E-01
97	-0.2817E+00	-0.1996E+01	0.1517E+01	0.8096E-01	0.4727E-02	0.2105E-01
98	-0.1816E+00	-0.2295E+01	0.1222E+01	0.7680E-01	0.5921E-02	0.2174E-01
100	-0.8319E-01	-0.2295E+01	0.8816E+00	0.7433E-01	0.6629E-02	0.2200E-01
101	-0.1693E-01	-0.2295E+01	0.6611E+00	0.7234E-01	0.7102E-02	0.2216E-01
102	0.6708E-01	-0.2295E+01	0.3875E+00	0.7317E-01	0.7540E-02	0.2265E-01
113	0.2707E-01	-0.2682E+01	0.6612E+00	0.5234E-01	0.7649E-02	0.1989E-01
114	0.6042E-01	-0.2867E+01	0.6613E+00	0.3556E-01	0.7998E-02	0.1778E-01
115	0.9493E-01	-0.2986E+01	0.6613E+00	0.2124E-01	0.8203E-02	0.1567E-01
116	0.1466E+00	-0.3065E+01	0.6614E+00	0.5868E-02	0.8273E-02	0.1256E-01
118	0.1399E+00	-0.3069E+01	0.6587E+00	-0.4141E-02	0.8366E-02	0.1057E-01
9023	-0.3411E-01	-0.3067E+01	-0.1910E+00	-0.5911E-01	0.7414E-02	0.2420E-02
120	-0.4404E-01	-0.3065E+01	-0.2927E+01	-0.1364E+00	0.6461E-02	-0.8692E-03
122	-0.2761E-01	-0.2731E+01	-0.3248E+01	-0.1544E+00	0.6326E-02	-0.9553E-03
124	-0.1301E-02	-0.2055E+01	-0.3248E+01	-0.1632E+00	0.6101E-02	-0.1028E-02
125	0.5721E-01	-0.3674E+00	-0.3248E+01	-0.1641E+00	0.5441E-02	-0.1201E-02
127	0.6629E-01	-0.6149E-02	-0.2894E+01	-0.1527E+00	0.5100E-02	-0.1299E-02
129	0.3112E-01	-0.3626E-02	-0.5025E-01	-0.5337E-31	0.3007E-02	-0.1339E-02
9024	0.9388E-02	-0.1813E-02	0.2171E+00	0.1034E-01	0.1504E-02	-0.9233E-03
130	0.2G70E-09	-0.3964E-07	0.2965E-07	0.3507E-08	0.3539E-10	-0.8733E-10
48	-0.1531E-02	-0.5261E+00	0.1462E+00	0.7402E-01	0.2280E-03	0.2177E-01
49	-0.1526E-02	-0.4034E+00	0.1455E+00	0.7469E-01	0.1129E-03	0.2695E-01
50	-0.1520E-02	-0.2566E+00	0.1451E+00	0.7536E-01	0.1158E-03	0.3140E-01
51	-0.1518E-02	-0.2084E+00	0.1449E+00	0.7556E-01	0.1367E-03	0.3259E-01
52	-0.1511E-02	-0.1792E-01	0.1439E+00	0.7629E-01	0.2903E-03	0.3632E-01
53	-0.1483E-02	0.1013E+01	0.1178E+00	0.7952E-01	0.2216E-02	0.4760E-01
54	-0.1440E-02	0.2870E+01	-0.5905E-01	0.8428E-01	0.8300E-02	0.5450E-01
55	-0.1439E-02	0.2911E+01	-0.6554E-01	0.8438E-01	0.8447E-02	0.5454E-01
56	0.3190E-01	0.2798E+01	-0.9932E-01	0.8515E-01	0.8597E-02	0.5511E-01
57	0.5106E-01	0.2606E+01	-0.9944E-01	0.8529E-01	0.8417E-02	0.5535E-01
58	0.6814E-01	0.2435E+01	-0.9954E-01	0.8537E-01	0.8133E-02	0.5556E-01
59	0.9210E-01	0.2179E+01	-0.9970E-01	0.8536E-01	0.7254E-02	0.5589Z-01
103	0.9224E-01	0.1975E+01	-0.7829E-01	0.8507E-01	0.1765E-02	0.5270E-01
104	0.9279E-01	0.1501E+01	-0.1330E+00	0.8390E-01	-0.1056E-01	0.5272E-01
105	0.9297E-01	0.1338E+01	-0.1661E+00	0.8352E-01	-0.1114E-01	0.5664E-01
106	0.9315E-01	0.1161E+01	-0.1987E+00	0.8314E-01	-0.1027E-01	0.6072E-01
107	0.9382E-01	0.4309E+00	-0.2496E+00	0.8169E-01	0.4454E-02	0.6224E-01
109	0.1050E+00	0.2165E+00	-0.2403E+00	0.8142E-01	0.8276E-02	0.5927E-01
111	0.1315E+00	-0.5479E-01	-0.2403E+00	0.7898E-01	0.4990E-02	0.5395E-01
112	0.1359E+00	-0.1656E+00	-0.2403E+00	0.7729E-01	0.1899E-03	0.5172E-01
60	0.1127E+00	0.1923E+01	-0.9985E-01	0.8518E-01	0.5957E-02	0.5628E-01
61	0.1286E+00	0.1667E+01	-0.1000E+00	0.8482E-01	0.4207E-02	0.5668E-01
62	0.1297E+00	0.1646E+01	-0.1000E+00	0.8478E-01	0.4041E-02	0.5672E-01
63	0.1347E+00	0.1116E+01	-0.1039E+00	0.8303E-01	-0.3585E-02	0.5721E-01
64	0.1351E+00	0.4881E+00	-0.1700E+00	0.7982E-01	-0.6664E-02	0.5645E-01
65	0.1353E+00	0.2078E+00	-0.2025E+00	0.7835E-01	-0.5556E-02	0.5534E-01
131	-0.4421E-01	0.2078E+00	0.5181E-01	0.7831E-01	-0.5556E-02	0.5529E-01
132	-0.2242E+00	0.2078E+00	0.3067E+00	0.7835E-01	-0.5556E-02	0.5532E-01
66	0.1354E+00	-0.6731E-01	-0.2256E+00	0.7785E-01	-0.3571E-02	0.5429E-01
67	0.1354E+00	-0.2957E+00	-0.2371E+00	0.7743E-01	-0.1736E-02	0.5286E-01
68	0.1354E+00	-0.4527E+00	-0.2603E+00	0.7713E-01	-0.3608E-03	0.5156E-01
69	0.1354E+00	-0.6054E+00	-0.2397E+00	0.7676E-01	0.8632E-03	0.4996E-01
70	0.1354E+00	-0.7166E+00	-0.2367E+00	0.7647E-01	0.1830E-02	0.4860E-01
71	0.1355E+00	-0.9517E+00	-0.2221E+00	0.7585E-01	0.4128E-02	0.4506E-01
133	-0.1094E-01	-0.9518E+00	0.2441E-01	0.7585E-01	0.4128E-02	0.4505E-01
134	-0.1575E+00	-0.9518E+00	0.2712E+00	0.7588E-01	0.4126E-02	0.4507E-01

72	0.1355E+00	-0.1168E+01	-0.1954E+00	0.7555E-01	0.6325E-02	0.4132E-01
73	0.1355E+00	-0.1925E+01	0.1485E+01	0.7423E-01	0.1107E-01	0.2772E-01
74	0.1355E+00	-0.1993E+01	0.4287E-01	0.7408E-01	0.1104E-01	0.2653E-01
75	0.1355E+00	-0.2120E+01	0.9718E-01	0.7379E-01	0.1033E-01	0.2451E-01
76	0.1355E+00	-0.2238E+01	0.1463E+00	0.7349E-01	0.8798E-02	0.2318E-01
77	0.1355E+00	-0.2295E+01	0.1673E+00	0.7334E-01	0.7723E-02	0.2286E-01
78	0.1355E+00	-0.2387E+01	0.1952E+00	0.7322E-01	0.6240E-02	0.2304E-01
9021	0.1354E+00	-0.3019E+01	0.2511E+00	0.7238E-01	-0.1407E-02	0.1946E-01
79	0.1354E+00	-0.3459E+01	0.1666E+00	0.7154E-01	-0.3435E-02	0.1135E-01
80	0.1354E+00	-0.3568E+01	0.1326E+00	0.7122E-01	-0.2600E-02	0.8819E-02
81	0.1353E+00	-0.3591E+01	0.1260E+00	0.7114E-01	-0.2251E-02	0.8367E-02
82	0.1398E+00	-0.3354E+01	0.1197E+00	0.7085E-01	-0.5690E-03	0.7295E-02
9022	0.1112E+00	-0.1620E+01	0.1195E+00	0.6200E-01	0.2412E-02	0.3985E-02
83	0.3539E-01	-0.3050E+00	0.1193E+00	0.3749E-01	0.3064E-02	0.6741E-03
84	0.2827E-01	-0.2209E+00	0.1193E+00	0.3439E-01	0.3001E-02	0.3727E-03
85	0.2329E-01	-0.1653E+00	0.1193E+00	0.3208E-01	0.2944E-02	0.1572E-03
86	0.3838E-02	-0.1988E-02	0.3771E-01	0.1503E-01	0.1930E-02	-0.9678E-03
87	0.2550E-08	-0.1620E-07	0.6038E-08	0.1105E-07	-0.1932E-09	-0.1393E-08

COUPLED MODE SHAPES (FOR SECONDARY MODE) MODE 14
FREQUENCY (HZ.) = 8.30712

MODAL DISP AT PRIMARY SYSTEM CONNETING DOF

DOF #	DISPLACEMENT
3041	0.6954E-06
3042	0.0000E+00
3043	-0.1187E-05
3061	0.2580E-05
3063	-0.3990E-05
3072	0.0000E+00
3081	0.5223E-05
3103	-0.1437E-04
3121	0.1325E-04
3122	0.0000E+00
3123	-0.1874E-04
3091	0.6481E-05
3092	0.0000E+00
3093	-0.8900E-05

MODAL DISPLACEMENTS AT SECONDARY SYSTEM DOF

NODE	DX	DY	DZ	ROT-X	ROT-Y	ROT-Z
1	0.1162E-08	0.4609E-08	0.1452E-08	0.1862E-09	-0.1806E-08	0.1813E-08
2	0.4279E-02	0.4628E-02	0.4281E-02	-0.1685E-03	-0.1759E-02	0.1964E-02
3	0.2223E-01	0.5701E-01	0.5719E-01	-0.1107E-02	-0.5393E-02	0.5224E-02
4	0.2226E-01	0.2235E+00	0.2693E+00	-0.2678E-02	-0.1031E-01	0.6603E-02
5	0.2226E-01	0.3084E+00	0.4210E+00	-0.3468E-02	-0.1232E-01	0.5550E-02
9001	0.1963E-01	0.3184E+00	0.4427E+00	-0.3553E-02	-0.1280E-01	0.5101E-02
9002	0.1298E-01	0.3251E+00	0.4557E+00	-0.3626E-02	-0.1321E-01	0.4622E-02
6	0.4783E-02	0.3274E+00	0.4554E+00	-0.3757E-02	-0.1356E-01	0.4134E-02
7	-0.4165E-02	0.3274E+00	0.4469E+00	-0.3866E-02	-0.1397E-01	0.3834E-02
9003	-0.6911E-01	0.3275E+00	0.2783E+00	-0.5107E-02	-0.2062E-01	0.6732E-04
9004	-0.3790E-01	0.3276E+00	0.9604E-01	-0.4274E-02	-0.2726E-01	-0.1309E-02
9	-0.6078E-02	0.3276E+00	0.4535E-02	-0.5709E-04	-0.3391E-01	0.7944E-04
10	-0.8067E-02	0.3276E+00	0.7572E-02	0.1052E-02	-0.3506E-01	0.4722E-03
9005	-0.2152E-01	0.3276E+00	0.1003E+00	0.3864E-02	-0.4070E-01	-0.3340E-03
9006	0.6631E-01	0.3275E+00	0.1923E+00	0.2088E-02	-0.4635E-01	-0.5993E-02
11	0.4013E+00	0.3274E+00	0.1179E+00	-0.6650E-02	-0.5199E-01	-0.1630E-01
12	0.6010E+00	0.3273E+00	0.2721E-01	-0.1034E-01	-0.5394E-01	-0.2104E-01
9007	0.6420E+00	0.3161E+00	0.3387E-01	-0.1161E-01	-0.5422E-01	-0.2277E-01
9008	0.6744E+00	0.2836E+00	0.9183E-01	-0.1270E-01	-0.5443E-01	-0.2452E-01
13	0.6870E+00	0.2359E+00	0.1877E+00	-0.1368E-01	-0.5478E-01	-0.2625E-01
14	0.6870E+00	0.1618E+00	0.3390E+00	-0.1505E-01	-0.5510E-01	-0.2753E-01
15	0.6869E+00	-0.1157E-01	0.6716E+00	-0.1804E-01	-0.5570E-01	-0.3015E-01
16	0.6868E+00	-0.4647E+00	0.1457E+01	-0.2498E-01	-0.5683E-01	-0.3400E-01
17	0.6241E+00	-0.5272E+00	0.1608E+01	-0.2653E-01	-0.5720E-01	-0.3436E-01
18	0.3427E+00	-0.5596E+00	0.1689E+01	-0.3017E-01	-0.5745E-01	-0.3512E-01
19	-0.5571E-01	-0.5744E+00	0.2268E+01	-0.3641E-01	-0.5727E-01	-0.3510E-01
20	-0.1092E+01	-0.3202E+00	0.3323E+01	-0.5865E-01	-0.5540E-01	-0.2932E-01
21	-0.1141E+01	-0.2279E+00	0.3225E+01	-0.6853E-01	-0.5428E-01	-0.2396E-01
9009	-0.4836E+00	-0.2284E+00	0.3064E+01	-0.8328E-01	-0.5026E-01	-0.1053E-01
9010	-0.1939E+00	-0.2288E+00	-0.2867E+01	-0.5364E-01	-0.4624E-01	-0.4880E-02
22	-0.3040E-01	-0.2292E+00	-0.3654E+01	0.7551E-02	-0.4222E-01	-0.3937E-02
23	0.4079E-02	-0.2293E+00	-0.3727E+01	0.2244E-01	-0.4137E-01	-0.4226E-02
24	0.7749E-01	-0.2295E+00	-0.3136E+01	0.4860E-01	-0.3973E-01	-0.4617E-02
9011	0.2209E+00	-0.2297E+00	-0.8827E+00	0.8053E-01	-0.3638E-01	-0.3558E-02
9012	0.2953E+00	-0.2300E+00	0.1889E+01	0.7874E-01	-0.3304E-01	-0.2655E-03
25	0.2615E+00	-0.2302E+00	0.4027E+01	0.4467E-01	-0.2969E-01	0.2653E-02
26	0.2321E+00	-0.2303E+00	0.4385E+01	0.3058E-01	-0.2874E-01	0.3512E-02
9013	0.6722E-01	-0.2305E+00	0.4516E+01	-0.2284E-01	-0.2519E-01	0.5411E-02
9014	-0.1227E+00	-0.2306E+00	0.2957E+01	-0.5996E-01	-0.2164E-01	0.4850E-02
27	-0.2499E+00	-0.2308E+00	0.7276E+00	-0.5746E-01	-0.1809E-01	0.2002E-02
28	-0.2667E+00	-0.2308E+00	0.4687E-01	-0.4376E-01	-0.1676E-01	0.5228E-03
29	-0.2548E+00	-0.2309E+00	-0.5822E+00	-0.2009E-01	-0.1476E-01	-0.1666E-02
9015	-0.1354E+00	-0.2309E+00	-0.7218E+00	0.9030E-02	-0.1101E-01	-0.4324E-02
9016	0.3318E-01	-0.2309E+00	-0.1939E+00	0.1476E-01	-0.7270E-02	-0.4130E-02
30	0.1336E+00	-0.2309E+00	0.5315E-01	-0.6256E-02	-0.3527E-02	-0.7107E-03
31	0.1342E+00	-0.2309E+00	0.4651E-01	-0.7197E-02	-0.3427E-02	-0.5765E-03
32	0.1313E+00	-0.2193E+00	0.2107E-01	-0.1247E-01	-0.3182E-02	0.8886E-04
35	0.1230E+00	-0.1786E+00	0.5423E-02	-0.1794E-01	-0.2880E-02	0.6328E-03
37	0.1011E+00	0.8841E-02	0.5555E-02	-0.2647E-01	-0.2346E-02	0.2189E-02
9017	0.4946E-01	0.1228E+01	0.6058E-02	-0.4343E-01	-0.1012E-0	0.8159E-02
9018	0.2654E-01	0.2524E+01	0.6562E-02	-0.3221E-01	-0.5327E-03	0.1413E-01
38	0.7875E-02	0.3111E+01	0.7064E-02	-0.1745E-02	-0.7270E-03	0.2010E-01
39	-0.5770E-03	0.3067E+01	0.7225E-02	0.1031E-01	-0.9170E-03	0.2201E-01
9019	-0.3590E-01	0.2156E+01	0.7752E-02	0.3929E-01	-0.9001E-03	0.2430E-01

40	-0.4556E-01	0.7055E+00	0.8277E-02	0.3990E-01	0.4966E-03	0.3458E-01
41	-0.2330E-02	-0.1232E+00	0.8731E-02	0.1140E-01	0.2645E-02	0.4001E-01
43	0.8877E-02	0.1151E-01	-0.3571E-02	-0.2838E-02	0.3883E-02	0.4330E-01
44	0.8876E-02	0.7396E-01	-0.9226E-02	-0.5781E-02	0.4136E-02	0.4371E-01
45	0.8873E-02	0.2432E+00	-0.2625E-01	-0.1357E-01	0.4998E-02	0.4451E-01
9020	0.8851E-02	0.1363E+01	-0.2349E+00	-0.7188E-01	0.8053E-02	0.2659E-01
46	0.8828E-02	0.1393E+01	-0.4072E+00	-0.1302E+00	0.2588E-02	-0.3116E-01
47	0.8826E-02	0.1288E+01	-0.4135E+00	-0.1363E+00	0.1544E-02	-0.3940E-01
91	0.1272E+00	0.1288E+01	-0.8240E+00	-0.1382E+00	0.9103E-03	-0.3958E-01
92	0.5800E+00	0.1289E+01	-0.2457E+01	-0.1523E+00	-0.3653E-02	-0.4101E-01
93	0.7157E+00	0.1393E+01	-0.3048E+01	-0.1643E+00	-0.6358E-02	-0.4202E-01
94	0.6934E+00	0.2431E+01	-0.3048E+01	-0.1664E+00	-0.7324E-02	-0.4264E-01
95	0.6531E+00	0.3269E+01	-0.3048E+01	-0.1672E+00	-0.8748E-02	-0.4359E-01
96	0.6059E+00	0.4104E+01	-0.3048E+01	-0.1654E+00	-0.1002E-01	-0.4454E-01
97	0.6034E+00	0.4145E+01	-0.3048E+01	-0.1652E+00	-0.1007E-01	-0.4459E-01
98	0.3916E+00	0.4756E+01	-0.2447E+01	-0.1560E+00	-0.1212E-01	-0.4601E-01
100	0.1834E+00	0.4756E+01	-0.1756E+01	-0.1509E+00	-0.1324E-01	-0.4641E-01
101	0.4380E-01	0.4756E+01	-0.1308E+01	-0.1470E+00	-0.1395E-01	-0.4656E-01
102	-0.1323E+00	0.4756E+01	-0.7527E+00	-0.1486E+00	-0.1460E-01	-0.4728E-01
113	-0.4316E-01	0.5545E+01	-0.1308E+01	-0.1075E+00	-0.1518E-01	-0.4173E-01
114	-0.1095E+00	0.5928E+01	-0.1308E+01	-0.7392E-01	-0.1586E-01	-0.3724E-01
115	-0.1785E+00	0.6176E+01	-0.1309E+01	-0.4496E-01	-0.1643E-01	-0.3274E-01
116	-0.2823E+00	0.6348E+01	-0.1309E+01	-0.1336E-01	-0.1663E-01	-0.2613E-01
118	-0.2671E+00	0.6358E+01	-0.1307E+01	0.7779E-02	-0.1683E-01	-0.2188E-01
9023	0.8613E-01	0.6354E+01	0.4553E+00	0.1229E+00	-0.1515E-01	-0.4575E-02
120	0.9281E-01	0.6350E+01	0.6130E+01	0.2825E+00	-0.1345E-01	0.2248E-02
122	0.5764E-01	0.5660E+01	0.6796E+01	0.3194E+00	-0.1319E-01	0.2379E-02
124	0.2552E-02	0.4261E+01	0.6795E+01	0.3379E+00	-0.1274E-01	0.2473E-02
125	-0.1195E+00	0.7633E+00	0.6795E+01	0.3407E+00	-0.1138E-01	0.2700E-02
127	-0.1382E+00	0.1252E-01	0.6058E+01	0.3180E+00	-0.1067E-01	0.2849E-02
129	-0.6367E-01	0.7385E-02	0.1281E+00	0.1122E+00	-0.6292E-02	0.2770E-02
9024	-0.1907E-01	0.3693E-02	-0.4557E+00	-0.2168E-01	-0.3146E-02	0.1882E-02
130	-0.4057E-09	0.8074E-07	-0.6229E-07	-0.7364E-08	-0.1787E-09	0.1765E-09
48	0.8827E-02	0.1157E+01	-0.4180E+00	-0.1375E+00	0.1352E-02	-0.4715E-01
49	0.8830E-02	0.8902E+00	-0.4238E+00	-0.1398E+00	0.8349E-03	-0.5845E-01
50	0.8832E-02	0.5722E+00	-0.4263E+00	-0.1420E+00	0.1208E-03	-0.6764E-01
51	0.8833E-02	0.4685E+00	-0.4264E+00	-0.1426E+00	-0.1225E-03	-0.6996E-01
52	0.8836E-02	0.6199E-01	-0.4232E+00	-0.1450E+00	-0.1123E-02	-0.7678E-01
53	0.8846E-02	-0.2054E+01	-0.3296E+00	-0.1556E+00	-0.6975E-02	-0.9584E-01
54	0.8860E-02	-0.5761E+01	0.1172E+00	-0.1713E+00	-0.1848E-01	-0.1090E+00
55	0.8860E-02	-0.5843E+01	0.1316E+00	-0.1716E+00	-0.1871E-01	-0.1092E+00
56	-0.6237E-01	-0.5604E+01	0.2047E+00	-0.1742E+00	-0.1808E-01	-0.1109E+00
57	-0.1024E+00	-0.5212E+01	0.2049E+00	-0.1747E+00	-0.1755E-01	-0.1117E+00
58	-0.1379E+00	-0.4862E+01	0.2051E+00	-0.1750E+00	-0.1684E-01	-0.1123E+00
59	-0.1872E+00	-0.4316E+01	0.2055E+00	-0.1752E+00	-0.1489E-01	-0.1133E+00
103	-0.1875E+00	-0.3922E+01	0.1635E+00	-0.1746E+00	-0.3665E-02	-0.1072E+00
104	-0.1886E+00	-0.2954E+01	0.2727E+00	-0.1721E+00	0.2148E-01	-0.1044E+00
105	-0.1890E+00	-0.2617E+01	0.3401E+00	-0.1714E+00	0.2264E-01	-0.1167E+00
106	-0.1893E+00	-0.2253E+01	0.4062E+00	-0.1706E+00	0.2083E-01	-0.1253E+00
107	-0.1907E+00	-0.7467E+00	0.5094E+00	-0.1676E+00	-0.8966E-02	-0.1281E+00
109	-0.2132E+00	-0.3063E+00	0.4907E+00	-0.1670E+00	-0.1668E-01	-0.1216E+00
111	-0.2667E+00	0.2499E+00	0.4907E+00	-0.1619E+00	-0.1010E-01	-0.1102E+00
112	-0.2755E+00	0.4769E+00	0.4907E+00	-0.1584E+00	-0.4568E-03	-0.1054E+00
60	-0.2292E+00	-0.3810E+01	0.2054E+00	-0.1750E+00	-0.1215E-01	-0.1145E+00
61	-0.2616E+00	-0.3285E+01	0.2061E+00	-0.1743E+00	-0.8520E-02	-0.1156E+00
62	-0.2638E+00	-0.3242E+01	0.2061E+00	-0.1742E+00	-0.8176E-02	-0.1157E+00
63	-0.2736E+00	-0.2154E+01	0.2143E+00	-0.1707E+00	0.7348E-02	-0.1174E+00
64	-0.2745E+00	-0.8625E+00	0.3490E+00	-0.1639E+00	0.1354E-01	-0.1161E+00
65	-0.2748E+00	-0.2864E+00	0.4150E+00	-0.1608E+00	0.1124E-01	-0.1136E+00
131	0.9373E-01	-0.2864E+00	-0.1070E+00	-0.1607E+00	0.1124E-01	-0.1135E+00
132	0.4632E+00	-0.2864E+00	-0.6300E+00	-0.1608E+00	0.1124E-01	-0.1136E+00
66	-0.2748E+00	0.2778E+00	0.4615E+00	-0.1597E+00	0.7175E-02	-0.1112E+00
67	-0.2748E+00	0.7449E+00	0.4844E+00	-0.1587E+00	0.3439E-02	-0.1079E+00
68	-0.2748E+00	0.1065E+01	0.4907E+00	-0.1580E+00	0.6501E-03	-0.1050E+00
69	-0.2749E+00	0.1376E+01	0.4892E+00	-0.1572E+00	-0.1827E-02	-0.1015E+00
70	-0.2749E+00	0.1602E+01	0.4830E+00	-0.1565E+00	-0.3778E-02	-0.9850E-01
71	-0.2749E+00	0.2077E+01	0.4531E+00	-0.1552E+00	-0.8397E-02	-0.9072E-01
133	0.1997E-01	0.2077E+01	-0.5114E-01	-0.1552E+00	-0.8397E-02	-0.9074E-01
134	0.3152E+00	0.2077E+01	-0.5561E+00	-0.1553E+00	-0.8397E-02	-0.9078E-01
72	-0.2749E+00	0.2510E+01	0.3990E+00	-0.1544E+00	-0.1276E-01	-0.8260E-01
73	-0.2749E+00	0.4011E+01	-0.1602E-01	-0.1512E+00	-0.2127E-01	-0.5494E-01
74	-0.2748E+00	0.4145E+01	-0.6954E-01	-0.1508E+00	-0.2104E-01	-0.5276E-01
75	-0.2748E+00	0.4399E+01	-0.1729E+00	-0.1501E+00	-0.1958E-01	-0.4934E-01
76	-0.2748E+00	0.4639E+01	-0.2654E+00	-0.1494E+00	-0.1676E-01	-0.4760E-01
77	-0.2748E+00	0.4757E+01	-0.3055E+00	-0.1490E+00	-0.1486E-01	-0.4755E-01
78	-0.2748E+00	0.4949E+01	-0.3594E+00	-0.1490E+00	-0.1212E-01	-0.4846E-01
9021	-0.2747E+00	0.6317E+01	-0.4795E+00	-0.1493E+00	0.2054E-02	-0.4318E-01
79	-0.2746E+00	0.7315E+01	-0.3370E+00	-0.1496E+00	0.5949E-02	-0.2634E-01
80	-0.2746E+00	0.7568E+01	-0.2782E+00	-0.1497E+00	0.4463E-02	-0.2079E-01
81	-0.2746E+00	0.7622E+01	-0.2668E+00	-0.1497E+00	0.3828E-02	-0.1978E-01
82	-0.2817E+00	0.7110E+01	-0.2563E+00	-0.1496E+00	0.7555E-03	-0.1727E-01
9022	-0.2212E+00	0.3454E+01	-0.2560E+00	-0.1319E+00	-0.4777E-02	-0.9572E-02
83	-0.7121E-01	0.6504E+00	-0.2557E+00	-0.8009E-01	-0.6135E-02	-0.1879E-02
84	-0.5694E-01	0.4706E+00	-0.2556E+00	-0.7348E-01	-0.6038E-02	-0.1178E-02
85	-0.4690E-01	0.3518E+00	-0.2556E+00	-0.6855E-01	-0.5946E-02	-0.6775E-03
86	-0.7814E-02	0.8152E-02	-0.4066E-01	-0.3206E-01	-0.4004E-02	0.1931E-02
87	-0.4633E-08	0.3985E-07	-0.1157E-07	-0.2355E-07	0.4580E-09	0.2867E-08

COUPLED MODE SHAPES (FOR SECONDARY MODE) MODE 15
FREQUENCY (HZ.) = 10.62667

MODAL DISP AT PRIMARY SYSTEM CONNETING DOF

DOF #	DISPLACEMENT
3041	0.6779E-05
3042	0.0000E+00
3043	-0.4517E-04
3061	0.1658E-04
3063	-0.1518E-03

3072	0.0000E+00
3081	0.2663E-04
3103	-0.5465E-03
3121	0.5217E-04
3122	0.0000E+00
3123	-0.7131E-03
3091	0.3077E-04
3092	0.0000E+00
3093	-0.3386E-03

MODAL DISPLACEMENTS AT SECONDARY SYSTEM DOF

NODE	DX	DY	DZ	ROT X	ROT-Y	ROT-Z
1	0.1577E-07	-0.3559E-0[illegible]	0.1657E-06	-0.2960E-08	-0.8579E-07	-0.1522E-08
2	0.2017E+00	-0.1061E-0[illegible]	0.2029E+00	-0.3117E-02	-0.6216E-01	-0.1232E-02
3	0.1024E+01	-0.7827E-01	0.2601E+01	-0.1096E-01	-0.2367E+00	-0.3418E-02
4	0.1025E+01	-0.1994E+00	0.1099E+02	-0.7405E-01	-0.3645E+00	-0.5072E-02
5	0.1025E+01	-0.2655E+00	0.1595E+02	-0.8079E-01	-0.3703E+00	-0.4666E-02
9001	0.1027E+01	-0.2741E+00	0.1662E+02	-0.3214E-01	-0.3668E+00	-0.4440E-02
9002	0.1033E+01	-0.2803E+00	0.1708E+02	-0.3447E-01	-0.3628E+00	-0.4155E-02
6	0.1040E+01	-0.2823E+00	0.1720E+02	-0.3763E-01	-0.3591E+00	-0.3792E-02
7	0.1049E+01	-0.2821E+00	0.1711E+02	-0.4008E-01	-0.3550E+00	-0.3515E-02
9003	0.1042E+01	-0.2811E+00	0.1434E+02	-0.1240E+00	-0.2893E+00	0.5185E-02
9004	0.6489E+00	-0.7621E+00	0.8047E+01	-0.2027E+00	-0.2235E+00	0.1541E-01
9	0.6106E-02	-0.2821E+00	0.1026E+01	-0.1480E+00	-0.1578E+00	0.1748E-01
10	-0.1031E+00	-0.2821E+00	0.1655E+00	-0.1201E+00	-0.1464E+00	0.1678E-01
9005	-0.5664E+00	-0.2819E+00	-0.1464E+01	0.7584E-02	-0.9054E-01	0.1272E-01
9006	-0.9098E+00	-0.2817E+00	0.1127E+00	0.8334E-01	-0.3468E-01	0.9805E-02
11	-0.1243E+01	-0.2816E+00	0.3170E+01	0.1025E+00	0.2117E-01	0.1321E-01
12	-0.1403E+01	-0.2812E+00	0.4248E+01	0.9694E-01	0.4038E-01	0.1692E-01
9007	-0.1436E+01	-0.2722E+00	0.4405E+01	0.9387E-01	0.4423E-01	0.1853E-01
9008	-0.1463E+01	-0.2455E+00	0.4468E+01	0.9060E-01	0.4900E-01	0.2015E-01
13	-0.1473E+01	-0.2060E+00	0.4417E+01	0.8794E-01	0.5437E-01	0.2183E-01
14	-0.1473E+01	-0.1441E+00	0.4261E+01	0.8462E-01	0.5861E-01	0.2301E-01
15	-0.1473E+01	0.1131E-02	0.3881E+01	0.7801E-01	0.6851E-01	0.2520E-01
16	-0.1472E+01	0.3779E+00	0.2760E+01	0.6219E-01	0.9213E-01	0.2818E-01
17	-0.1365E+01	0.3880E+00	0.2504E+01	0.5859E-01	0.1010E+00	0.2905E-01
18	-0.8427E+00	0.2585E+00	0.1982E+01	0.5207E-01	0.1113E+00	0.2844E-01
19	-0.2674E-01	0.1196E+00	0.1166E+01	0.4368E-01	0.1230E+00	0.2677E-01
20	0.2387E+01	-0.8775E-01	-0.1247E+01	0.2589E-01	0.1351E+00	0.1792E-01
21	0.2685E+01	-0.1079E+00	-0.1516E+01	0.2227E-01	0.1343E+00	0.1506E-01
9009	0.2135E+01	-0.1075E+00	-0.8256E+00	0.1428E-01	0.1245E+00	0.1658E-01
9010	0.1238E+01	-0.1070E+00	-0.2936E+00	0.1225E-01	0.1147E+00	0.2699E-01
22	0.1828E+00	-0.1065E+00	0.1259E+00	0.7917E-02	0.1048E+00	0.2133E-01
23	0.1917E-01	-0.1064E+00	0.1871E+00	0.6450E-02	0.1027E+00	0.1685E-01
24	-0.1801E+00	-0.1061E+00	0.2679E+00	0.3380E-02	0.9873E-01	0.7774E-02
9011	-0.1933E+00	-0.1056E+00	0.2775E+00	-0.2653E-02	0.9054E-01	-0.5756E-02
9012	0.1183E+00	-0.1051E+00	0.1132E+00	-0.6631E-02	0.8235E-01	-0.1140E-01
25	0.4765E+00	-0.1046E+00	-0.1245E+00	-0.6874E-02	0.7417E-01	-0.8839E-02
26	0.5533E+00	-0.1044E+00	-0.1869E+00	-0.6198E-02	0.7184E-01	-0.6809E-02
9013	0.6345E+00	-0.1039E+00	-0.3362E+00	-0.1751E-02	0.6315E-01	0.2589E-02
9014	0.3828E+00	-0.1032E+00	-0.2987E+00	0.3753E-02	0.5446E-01	0.1087E-01
27	-0.6269E-01	-0.1026E+00	-0.9594E-01	0.7049E-02	0.4577E-01	0.1265E-01
28	-0.2256E+00	-0.1023E+00	-0.2015E-03	0.7273E-02	0.4252E-01	0.1150E-01
29	-0.4215E+00	-0.1020E+00	0.1398E+00	0.6484E-02	0.3762E-01	0.7758E-02
9015	-0.5362E+00	-0.1012E+00	0.3112E+00	0.2123E-02	0.2846E-01	-0.2001E-02
9016	-0.2837E+00	-0.1005E+00	0.2803E+00	-0.3713E-02	0.1930E-01	-0.1061E-01
30	0.1994E+00	-0.9968E-01	0.5862E-01	-0.7527E-02	0.1014E-01	-0.1377E-01
31	0.2132E+00	-0.9965E-01	0.5105E-01	-0.7575E-02	0.9899E-02	-0.1374E-01
32	0.2597E+00	-0.9105E-01	0.3056E-01	-0.7772E-02	0.9098E-02	-0.1368E-01
35	0.2971E+00	-0.7024E-01	0.2194E-01	-0.7647E-02	0.8060E-02	-0.1321E-01
37	0.3576E+00	-0.9719E-02	0.2192E-01	-0.6159E-02	0.6193E-02	-0.1274E-01
9017	0.4360E+00	0.5800E-01	0.2184E-01	0.1293E-02	-0.1262E-02	-0.1093E-01
9018	0.2989E+00	-0.4981E-01	0.2175E-01	0.4605E-02	-0.6531E-02	-0.9120E-02
38	0.6650E-01	-0.1962E+00	0.2166E-01	0.3747E-02	-0.6736E-02	-0.7310E-02
39	0.2352E-02	-0.2300E+00	0.2163E-01	0.2682E-02	-0.5465E-02	-0.6730E-02
9019	-0.1014E+00	-0.2530E+00	0.2159E-01	-0.1342E-02	-0.8688E-03	-0.6825E-02
40	-0.7713E-01	-0.1506E+00	0.2142E-01	-0.4282E-02	0.1901E-02	-0.2921E-02
41	-0.1077E-01	-0.1383E-01	0.2132E-01	-0.4551E-02	0.2225E-02	-0.1276E-02
43	-0.2830E-02	-0.1236E-02	0.1378E-01	-0.4201E-02	0.1819E-02	-0.9642E-03
44	-0.2827E-02	-0.2575E-02	0.1119E-01	-0.4113E-02	0.1741E-02	-0.9221E-03
45	-0.2819E-02	-0.5893E-02	0.4941E-02	-0.3881E-02	0.1493E-02	-0.8197E-03
9020	-0.2760E-02	-0.1903E-01	-0.1332E-01	-0.2145E-02	-0.3778E-05	-0.1236E-03
46	-0.2701E-02	-0.1460E-01	-0.6091E-02	-0.4096E-03	-0.2808E-03	0.3926E-03
47	-0.2695E-02	-0.1336E-01	-0.5292E-02	-0.2271E-03	-0.2369E-03	0.4331E-03
91	-0.1976E-02	-0.1336E-01	-0.5916E-02	-0.1681E-03	-0.2116E-03	0.4168E-03
92	-0.8221E-02	-0.1338E-01	-0.5621E-02	0.1360E-03	-0.2989E-04	0.3650E-03
93	-0.9456E-02	-0.1426E-01	-0.5062E-02	0.2579E-03	0.6924E-04	0.3780E-03
94	-0.9177E-02	-0.1514E-01	-0.5058E-02	0.2653E-03	0.9333E-04	0.3949E-03
95	-0.8637E-02	-0.1646E-01	-0.5051E-02	0.2427E-03	0.1110E-03	0.4211E-03
96	-0.8067E-02	-0.1756E-01	-0.5044E-02	0.1818E-03	0.1035E-03	[illegible]
97	-0.8040E-02	-0.1761E-01	-0.5043E-02	0.1776E-03	0.1025E-03	0.4485E-03
98	-0.5979E-02	-0.1803E-01	-0.5250E-02	-0.4321E-05	0.4205E-04	0.4636E-03
100	-0.1869E-02	-0.1804E-01	-0.5078E-02	-0.5069E-04	-0.7361E-05	0.4526E-03
101	-0.2545E-02	-0.1804E-01	-0.4884E-02	-0.6102E-04	-0.4030E-04	0.4333E-03
102	-0.9566E-03	-0.1805E-01	-0.4629E-02	-0.5531E-04	-0.8400E-04	0.4025E-03
113	-0.2760E-02	-0.1772E-01	-0.4885E-02	-0.4711E-04	-0.2848E-04	0.3755E-03
114	-0.2857E-02	-0.1753E-01	-0.4885E-02	-0.5022E-04	-0.1732E-04	0.3219E-03
115	-0.2906E-02	-0.1729E-01	-0.4885E-02	-0.6220E-04	-0.7071E-05	0.2643E-03
116	-0.2912E-02	-0.1684E-01	-0.4885E-02	-0.8362E-04	0.4368E-05	0.1895E-03
118	-0.3247E-02	-0.1663E-01	-0.5104E-02	-0.1058E-03	0.1562E-04	0.1179E-03
9023	-0.3958E-02	-0.1663E-01	-0.1020E-01	-0.2702E-03	0.5474E-04	-0.6579E-04
120	-0.9651E-03	-0.1663E-01	-0.2260E-01	-0.6541E-03	0.1019E-03	-0.1126E-03
122	-0.4842E-03	-0.1499E-01	-0.2416E-01	-0.7727E-03	0.1060E-03	-0.1030E-03
124	-0.3055E-04	-0.1154E-01	-0.2416E-01	-0.8489E-03	0.1066E-03	-0.9142E-04
125	0.1020E-02	-0.2234E-02	-0.2416E-01	-0.9708E-03	0.9953E-04	-0.6381E-04
127	0.1110E-02	-0.1949E-04	-0.2192E-01	-0.1000E-02	0.9460E-04	-0.5346E-04
129	0.2588E-03	-0.1149E-04	-0.6394E-03	-0.4463E-03	0.5577E-04	-0.1782E-04
9024	0.4787E-04	-0.5746E-05	0.1751E-02	0.8105E-04	0.2789E-04	-0.6080E-05

130	-0.2041E-11	-0.1256E-09	0.2444E-09	0.2860E-10	0.1584E-11	-0.2600E-12
48	-0.2691E-02	-0.1193E-01	-0.4602E-02	-0.2063E-03	-0.2236E-03	0.5001E-03
49	-0.2684E-02	-0.9190E-02	-0.5638E-02	-0.1716E-03	-0.2030E-03	0.5700E-03
50	-0.2677E-02	-0.6232E-02	-0.2572E-02	-0.1370E-03	-0.1835E-03	0.5858E-03
51	-0.2675E-02	-0.5343E-02	-0.2301E-02	-0.1265E-03	-0.1777E-03	0.5797E-03
52	-0.2668E-02	-0.2256E-02	-0.1383E-02	-0.8842E-04	-0.1561E-03	0.5142E-03
53	-0.2634E-02	0.5700E-02	0.1172E-02	0.7981E-04	-0.5106E-04	0.1791E-03
54	-0.2583E-02	0.8835E-02	-0.3080E-03	0.3278E	0.1422E-03	0.8082E-04
55	-0.2582E-02	0.8896E-02	-0.4172E-03	0.3330E-03	0.1666E-03	0.8401E-04
56	-0.1906E-02	0.7925E-02	-0.1050E-02	0.3703E-03	0.1753E-03	0.1295E-03
57	-0.1504E-02	0.7080E-02	-0.1051E-02	0.3773E-03	0.1661E-03	0.1474E-03
58	-0.1163E-02	0.6316E-02	-0.1051E-02	0.3815E-03	0.1539E-03	0.1634E-03
59	-0.7492E-03	0.5161E-02	-0.1052E-02	0.3840E-03	0.1351E-03	0.1873E-03
103	-0.7472E-03	0.4499E-02	-0.6152E-03	0.3713E-03	0.8008E-04	0.2341E-03
104	-0.7392E-03	0.1554E-02	-0.5735E-03	0.3199E-03	-0.4326E-04	0.3630E-03
105	-0.7366E-03	0.4314E-03	-0.7174E-03	0.3033E-03	-0.4888E-04	0.3824E-03
106	-0.7340E-03	-0.7323E-03	-0.8540E-03	0.2866E-03	-0.3867E-04	0.3910E-03
107	-0.7239E-03	-0.5055E-02	-0.4986E-03	0.2230E-03	0.1374E-03	0.3389E-03
108	-0.4648E-03	-0.5875E-02	-0.2613E-03	0.2129E-03	0.1796E-03	0.3105E-03
111	0.8192E-04	-0.6559E-02	-0.2616E-03	0.1918E-03	0.1070E-03	0.2614E-03
112	0.850E-03	-0.6824E-02	-0.2618E-03	0.1811E-03	0.2481E-04	0.2407E-03
60	-0.3720E-03	0.4005E-02	-0.1052E-02	0.3821E-03	0.1172E-03	0.2104E-03
61	-0.4740E-04	0.2861E-02	-0.1053E-02	0.3757E-03	0.1030E-03	0.2334E-03
62	-0.2269E-04	0.2767E-02	-0.1053E-02	0.3750E-03	0.9864E-04	0.2354E-03
63	0.2660E-03	0.4058E-03	-0.8216E-03	0.3424E-03	0.4487E-04	0.2789E-03
64	0.2652E-03	-0.2818E-02	-0.5299E-03	0.2731E-03	0.1632E-04	0.2933E-03
65	0.2649E-03	-0.4268E-02	-0.4608E-03	0.2416E-03	0.1484E-04	0.2800E-03
131	-0.6398E-03	-0.4264E-02	0.3217E-03	0.2412E-03	0.1484E-04	0.2793E-03
132	-0.1550E-02	-0.4269E-02	0.1107E-02	0.2414E-03	0.1484E-04	0.2797E-03
66	0.2618E-03	-0.5645E-02	-0.3813E-03	0.2165E-03	0.1624E-04	0.2674E-03
67	0.2593E-03	-0.6755E-02	-0.3108E-03	0.1953E-03	0.1632E-04	0.2523E-03
68	0.2574E-03	-0.7495E-02	-0.2618E-03	0.1803E-03	0.1576E-04	0.2392E-03
69	0.2560E-03	-0.8193E-02	-0.2208E-03	0.1649E-03	0.1122E-04	0.2238E-03
70	0.2549E-03	-0.8684E-02	-0.1992E-03	0.1534E-03	0.7562E-05	0.2111E-03
71	0.2524E-03	-0.9667E-02	-0.1823E-03	0.1279E-03	-0.1310E-05	0.1790E-03
133	-0.3268E-03	-0.9667E-02	0.2312E-03	0.1275E-03	-0.1310E-05	0.1787E-03
134	-0.9087E-03	-0.9668E-02	0.6463E-03	0.1276E-03	-0.1310E-05	0.1789E-03
72	0.2485E-03	-0.1049E-01	-0.2125E-03	0.1074E-03	-0.1437E-04	0.1552E-03
73	0.2313E-03	-0.1392E-01	-0.1870E-02	0.1636E-04	-0.1612E-03	0.1982E-03
74	0.2294E-03	-0.1443E-01	-0.2318E-02	0.6136E-05	-0.1801E-03	0.2188E-03
75	0.2255E-03	-0.1564E-01	-0.5284E-02	-0.1434E-04	-0.1831E-03	0.2713E-03
76	0.2216E-03	-0.1715E-01	-0.4149E-02	-0.3482E-04	-0.1404E-03	0.3420E-03
77	0.2197E-03	-0.1805E-01	-0.4475E-02	-0.4504E-04	-0.1022E-03	0.3851E-03
78	0.2201E-03	-0.1963E-01	-0.4813E-02	-0.5246E-05	-0.6890E-04	0.4025E-03
9021	0.2227E-03	-0.3172E-01	-0.4038E-02	0.2790E-03	0.1017E-03	0.4040E-03
79	0.2252E-03	-0.4155E-01	-0.2429E-03	0.5633E-03	0.1372E-03	0.2742E-03
80	0.2262E-03	-0.4424E-01	0.1137E-02	0.6713E-03	0.1114E-03	0.2244E-03
81	0.2264E-03	-0.4482E-01	0.1426E-02	0.6979E-03	0.1017E-03	0.2149E-03
82	-0.4824E-04	-0.4280E-01	0.1749E-02	0.7675E-03	0.5685E-04	0.1829E-03
9022	-0.4420E-03	-0.2205E-01	0.1752E-02	0.8034E-03	-0.1325E-04	0.1065E-03
83	0.3175E-04	-0.4204E-02	0.1756E-02	0.5251E-03	-0.1048E-04	0.3003E-04
84	0.5281E-04	-0.3024E-02	0.1756E-02	0.4819E-03	-0.6553E-05	0.2308E-04
85	0.6190E-04	-0.2243E-02	0.1756E-02	0.4492E-03	-0.3371E-05	0.1810E-04
86	0.3501E-04	-0.3933E-04	0.5299E-03	0.2038E-03	0.1234E-04	-0.7134E-05
87	-0.7485E-10	-0.3749E-09	-0.1032E-09	0.1460E-09	-0.7570E-11	-0.1443E-10

COUPLED MODE SHAPES (FOR SECONDARY MODE) MODE 16
FREQUENCY (HZ.) = 13.12996

MODAL DISP AT PRIMARY SYSTEM CONNETING DOF

DOF #	DISPLACEMENT
3041	-0.5133E-04
3042	0.0000E+00
3043	0.1234E-04
3061	-0.1395E-03
3063	0.4147E-04
3072	0.0000E+00
3081	-0.2411E-03
3103	0.1493E-03
3121	-0.5202E-03
3122	0.0000E+00
3123	0.1946E-03
3091	-0.2856E-03
3092	0.0000E+00
3093	0.9250E-04

MODAL DISPLACEMENTS AT SECONDARY SYSTEM DOF

NODE	DX	DY	DZ	ROT-X	ROT-Y	ROT-Z
1	-0.1774E-08	-0.4302E-08	0.1439E-08	-0.4291E-09	-0.3932E-09	-0.1460E-08
2	0.9341E-03	-0.4374E-02	0.9600E-03	-0.1737E-03	-0.4044E-03	-0.1525E-02
3	0.5182E-02	-0.4748E-01	0.1376E-01	-0.1010E-03	-0.1305E-02	-0.3932E-02
4	0.5125E-02	-0.1680E+00	0.5867E-01	0.3815E-04	-0.1815E-02	-0.4366E-02
5	0.5096E-02	-0.2189E+00	0.8165E-01	0.1081E-03	-0.1559E-02	-0.3062E-02
9001	0.6475E-02	-0.2243E+00	0.8453E-01	0.1101E-03	-0.1449E-02	-0.2580E-02
9002	0.9644E-02	-0.2275E+00	0.8661E-01	0.1006E-03	-0.1346E-02	-0.2081E-02
6	0.1305E-01	-0.2285E+00	0.8746E-01	0.9265E-04	-0.1253E-02	-0.1585E-02
7	0.1626E-01	-0.2285E+00	0.8768E-01	0.8720E-04	-0.1150E-02	-0.1286E-02
9003	-0.6004E-03	-0.2285E+00	0.8305E-01	-0.4892E-03	0.5415E-03	0.1528E-02
9004	-0.4916E-01	-0.2285E+00	0.4994E-01	-0.1210E-02	0.2233E-02	0.4391E-03
9	0.8821E-02	-0.2284E+00	0.6310E-02	-0.9097E-03	0.3924E-02	-0.4115E-02
10	0.3826E-01	-0.2284E+00	0.1102E-02	-0.7075E-03	0.4217E-02	-0.5008E-02
9005	0.2146E+00	-0.2281E+00	-0.4155E-02	0.3555E-03	0.5654E-02	-0.5027E-02
9006	0.2914E+00	-0.2278E+00	0.2219E-01	0.1307E-02	0.7091E-02	0.9615E-03
11	0.1211E+00	-0.2274E+00	0.7741E-01	0.2245E-02	0.8527E-02	0.1025E-01
12	-0.7919E-02	-0.2273E+00	0.1035E+00	0.2625E-02	0.9022E-02	0.1379E-01

9007	-0.3489E-01	-0.2199E+00	0.1039E+00	0.2756E-02	0.9105E-02	0.1498E-01
9008	-0.5622E-01	-0.1984E+00	0.9523E-01	0.2866E-02	0.9189E-02	0.1612E-01
13	-0.6453E-01	-0.1671E+00	0.7536E-01	0.2970E-02	0.9293E-02	0.1717E-01
14	-0.6453E-01	-0.1186E+00	0.5364E-01	0.3123E-02	0.9376E-02	0.1785E-01
15	-0.6452E-01	-0.7649E-02	-0.3117E-02	0.3455E-02	0.9524E-02	0.1888E-01
16	-0.6450E-01	0.2636E+00	-0.1375E+00	0.4227E-02	0.9698E-02	0.1967E-01
17	-0.5383E-01	0.3112E+00	-0.1633E+00	0.4426E-02	0.9709E-02	0.1956E-01
18	-0.6277E-02	0.3838E+00	-0.2108E+00	0.4937E-02	0.9661E-02	0.1927E-01
19	0.6016E-01	0.4773E+00	-0.2773E+00	0.6064E-02	0.9460E-02	0.1845E-01
20	0.2273E+00	0.6369E+00	-0.4463E+00	0.1046E-01	0.8758E-02	0.1488E-01
21	0.1989E+00	0.6447E+00	-0.4230E+00	0.1252E-01	0.8556E-02	0.1301E-01
9009	-0.1731E+00	0.6446E+00	0.1427E+00	0.1358E-01	0.7706E-02	0.5248E-02
9010	-0.2240E+00	0.6441E+00	0.5236E+00	0.3845E-02	0.6857E-02	-0.2342E-02
22	-0.4682E-01	0.6434E+00	0.4079E+00	-0.9164E-02	0.6007E-02	-0.5263E-02
23	-0.3069E-02	0.6432E+00	0.3199E+00	-0.1146E-01	0.5827E-02	-0.4942E-02
24	0.6908E-01	0.6427E+00	0.1048E+00	-0.1436E-01	0.5480E-02	-0.3797E-02
9011	0.1457E+00	0.6416E+00	-0.3760E+00	-0.1260E-01	0.4772E-02	-0.6421E-03
9012	0.1126E+00	0.6403E+00	-0.6471E+00	-0.2648E-02	0.4065E-02	0.2449E-02
25	0.1192E-02	0.6388E+00	-0.5363E+00	0.6816E-02	0.3357E-02	0.3799E-02
26	-0.3482E-01	0.6381E+00	-0.4396E+00	0.1140E-01	0.3156E-02	0.3730E-02
9013	-0.1416E+00	0.6364E+00	0.4343E-01	0.1372E-01	0.2405E-02	0.1874E-02
9014	-0.1519E+00	0.6343E+00	0.3917E+00	0.3909E-02	0.1654E-02	-0.1337E-02
27	-0.5762E-01	0.6320E+00	0.2193E+00	-0.1462E-01	0.9035E-03	-0.3620E-02
28	-0.7342E-02	0.6311E+00	-0.2816E-01	-0.2284E-01	0.6226E-03	-0.3889E-02
29	0.6875E-01	0.6295E+00	-0.5757E+00	-0.2969E-01	0.1986E-03	-0.3550E-02
9015	0.1601E+00	0.6265E+00	-0.1514E+01	-0.1486E-01	-0.5928E-03	-0.9639E-03
9016	0.1316E+00	0.6232E+00	-0.1449E+01	0.1931E-01	-0.1384E-02	0.2368E-02
30	0.6901E-02	0.6197E+00	-0.1662E+00	0.4578E-01	-0.2176E-02	0.3772E-02
31	0.3123E-02	0.6196E+00	-0.1201E+00	0.4620E-01	-0.2197E-02	0.3767E-02
32	-0.9295E-02	0.5669E+00	0.5475E-02	0.4806E-01	-0.2255E-02	0.3724E-02
35	-0.1944E-01	0.4372E+00	0.5900E-01	0.4843E-01	-0.2303E-02	0.3671E-02
37	-0.3900E-01	0.4076E-01	0.5911E-01	0.4307E-01	-0.2288E-02	0.3503E-02
9017	-0.9878E-01	-0.7730E+00	0.5950E-01	0.8063E-02	-0.1127E-02	0.2860E-02
9018	-0.1014E+00	-0.5824E+00	0.5987E-01	-0.1736E-01	0.1038E-02	0.2217E-02
38	-0.3363E-01	0.1652E+00	0.6022E-01	-0.2513E-01	0.3004E-02	0.1574E-02
39	0.3781E-04	0.4186E+00	0.6033E-01	-0.2322E-01	0.3456E-02	0.1368E-02
9019	0.1325E+00	0.5734E+00	0.6065E-01	-0.7095E-02	0.4090E-02	0.6911E-03
40	0.2742E+00	0.6323E+00	0.6096E-01	0.1530E-01	0.4319E-02	0.1448E-04
41	0.4218E+00	0.1403E+00	0.6121E-01	0.3024E-01	0.6240E-02	-0.5703E-03
43	0.4469E+00	0.1872E-01	0.3449E-01	0.3139E-01	0.7404E-02	-0.9039E-03
44	0.4469E+00	0.1799E-01	0.2312E-01	0.3400E-01	0.8070E-02	-0.8579E-03
45	0.4469E+00	0.1446E-01	-0.8983E-02	0.3561E-01	0.8876E-02	-0.7754E-03
9020	0.4465E+00	-0.4074E-01	-0.3550E+00	0.4768E-01	0.1534E-01	-0.4421E-02
46	0.4461E+00	-0.3086E+00	-0.8955E+00	0.5975E-01	0.2302E-01	-0.1574E-01
47	0.4460E+00	-0.3582E+00	-0.9659E+00	0.6102E-01	0.2401E-01	-0.1740E-01
91	0.5042E+00	-0.3582E+00	-0.7835E+00	0.5991E-01	0.2684E-01	-0.2360E-01
92	0.9787E+00	-0.3583E+00	-0.1624E+00	0.4962E-01	0.4722E-01	-0.5573E-01
93	0.1424E+01	-0.5149E+00	0.7618E-02	0.3669E-01	0.5319E-01	-0.7075E-01
94	0.1621E+01	-0.6273E+00	0.7703E-02	0.3246E-01	0.6076E-01	-0.7600E-01
95	0.1928E+01	-0.7731E+00	0.7834E-02	0.2564E-01	0.5974E-01	-0.8410E-01
96	0.2219E+01	-0.8839E+00	0.7965E-02	0.1868E-01	0.5509E-01	-0.9219E-01
97	0.2232E+01	-0.8885E+00	0.7971E-02	0.1834E-01	0.5478E-01	-0.9258E-01
98	0.2040E+01	-0.9370E+00	-0.2556E-01	0.4009E-02	0.3921E-01	-0.1073E+00
100	0.1541E+01	-0.9370E+00	-0.3091E-01	-0.1252E-02	0.2918E-01	-0.1161E+00
101	0.1183E+01	-0.9370E+00	-0.2197E-01	-0.4390E-02	0.2249E-01	-0.1232E+00
102	0.6998E+00	-0.9369E+00	0.3993E-02	-0.9091E-02	0.1366E-01	-0.1357E+00
113	0.1321E+01	-0.9237E+00	-0.2198E-01	0.3435E-03	0.2285E-01	-0.1058E+00
114	0.1416E+01	-0.9309E+00	-0.2200E-01	0.2190E-02	0.2135E-01	-0.8950E-01
115	0.1502E+01	-0.9411E+00	-0.2201E-01	0.2126E-02	0.1891E-01	-0.7325E-01
116	0.1608E+01	-0.9487E+00	-0.2203E-01	-0.3947E-03	0.1523E-01	-0.4932E-01
118	0.1728E+01	-0.9447E+00	-0.2877E-01	-0.4648E-02	0.1093E-01	-0.3349E-01
9023	0.1651E+01	-0.9452E+00	-0.4379E+00	-0.2300E-01	-0.9157E-02	0.3320E-01
120	0.3203E+00	-0.9454E+00	-0.1334E+01	-0.4050E-01	-0.2925E-01	0.4789E-01
122	0.1473E+00	-0.8884E+00	-0.1429E+01	-0.4491E-01	-0.3129E-01	0.4358E-01
124	0.1222E-01	-0.6513E+00	-0.1429E+01	-0.4817E-01	-0.3187E-01	0.3844E-01
125	-0.3039E+00	-0.1267E+00	-0.1428E+01	-0.5500E-01	-0.3005E-01	0.2615E-01
127	-0.3181E+00	-0.4669E-03	-0.1300E+01	-0.5775E-01	-0.2871E-01	0.2144E-01
129	-0.1001E-01	-0.2754E-03	-0.3976E-01	-0.2689E-01	-0.1593E-01	0.4473E-02
9024	0.1576E-01	-0.1377E-03	0.1050E+00	0.4835E-02	-0.8464E-02	-0.6687E-03
130	0.2337E-08	-0.3011E-08	0.1472E-07	0.1719E-08	-0.4807E-09	-0.2656E-09
48	0.4456E+00	-0.3931E+00	-0.1033E+01	0.6479E-01	0.2075E-01	-0.6172E-02
49	0.4448E+00	-0.3777E+00	-0.1123E+01	0.7108E-01	0.1494E-01	0.1194E-01
50	0.4439E+00	-0.2737E+00	-0.1183E+01	0.7736E-01	0.8943E-02	0.2919E-01
51	0.4437E+00	-0.2259E+00	-0.1195E+01	0.7925E-01	0.7172E-02	0.3418E-01
52	0.4426E+00	0.1152E-01	-0.1216E+01	0.8616E-01	0.8333E-03	0.5171E-01
53	0.4386E+00	0.2053E+01	-0.9552E+00	0.1166E+00	-0.1999E-01	0.1111E+00
54	0.4324E+00	0.6946E+01	-0.1183E+00	0.1616E+00	-0.1936E-01	0.1557E+00
55	0.4322E+00	0.7063E+01	-0.1043E+00	0.1625E+00	-0.1892E-01	0.1562E+00
56	0.3725E+00	0.7031E+01	-0.4088E-01	0.1696E+00	-0.1233E-01	0.1634E+00
57	0.3456E+00	0.6647E+01	-0.4106E-01	0.1710E+00	-0.9483E-02	0.1662E+00
58	0.3309E+00	0.6303E+01	-0.4122E-01	0.1719E+00	-0.6787E-02	0.1687E+00
59	0.3172E+00	0.5785E+01	-0.4147E-01	0.1722E+00	-0.4024E-02	0.1725E+00
103	0.3171E+00	0.5165E+01	-0.5924E-01	0.1690E+00	-0.6325E-02	0.1561E+00
104	0.3170E+00	0.3763E+01	-0.1427E+00	0.1560E+00	-0.1010E-01	0.1663E+00
105	0.3170E+00	0.3227E+01	-0.1724E+00	0.1518E+00	-0.9513E-02	0.1925E+00
106	0.3169E+00	0.2608E+01	-0.1995E+00	0.1476E+00	-0.8579E-02	0.2184E+00
107	0.3166E+00	-0.7204E-01	-0.2883E+00	0.1315E+00	-0.7705E-02	0.2191E+00
109	0.3047E+00	-0.5861E+00	-0.3001E+00	0.1288E+00	-0.7605E-02	0.1965E+00
111	0.2846E+00	-0.9968E+00	-0.3001E+00	0.1117E+00	-0.3101E-02	0.1564E+00
112	0.2824E+00	-0.1148E+01	-0.3001E+00	0.1003E+00	0.4888E-03	0.1396E+00
60	0.3095E+00	0.5268E+01	-0.4170E-01	0.1712E+00	-0.2768E-02	0.1768E+00
61	0.3032E+00	0.4755E+01	-0.4194E-01	0.1688E+00	-0.3061E-02	0.1810E+00
62	0.3026E+00	0.4713E+01	-0.4196E-01	0.1685E+00	-0.3155E-02	0.1813E+00
63	0.2839E+00	0.3398E+01	-0.7063E-01	0.1562E+00	-0.1039E-01	0.1877E+00
64	0.2854E+00	0.1334E+01	-0.2075E+00	0.1322E+00	-0.1168E-01	0.1827E+00
65	0.2861E+00	0.4374E+00	-0.2605E+00	0.1214E+00	-0.8287E-02	0.1737E+00
131	-0.2764E+00	0.4375E+00	0.1331E+00	0.1213E+00	-0.8287E-02	0.1735E+00
132	-0.8420E+00	0.4375E+00	0.5286E+00	0.1215E+00	-0.8287E-02	0.1738E+00
66	0.2857E+00	-0.4121E+00	-0.2904E+00	0.1123E+00	-0.4020E-02	0.1632E+00
67	0.2853E+00	-0.1083E+01	-0.3003E+00	0.1045E+00	-0.9725E-03	0.1500E+00
68	0.2851E+00	-0.1518E+01	-0.3001E+00	0.9923E-01	0.8543E-03	0.1383E+00

69	0.2848E+00	-0.1916E+01	-0.2965E+00	0.9333E-01	0.2542E-02	0.1264E+00
70	0.2846E+00	-0.2165E+01	-0.2873E+00	0.8690E-01	0.3622E-02	0.1127E+00
71	0.2841E+00	-0.2680E+01	-0.2636E+00	0.7905E-01	0.5446E-02	0.8255E-01
133	0.1530E-01	-0.2680E+01	-0.6215E-02	0.7918E-01	0.5446E-02	0.8269E-01
134	-0.2540E+00	-0.2681E+01	0.2517E+00	0.7926E-01	0.5446E-02	0.8278E-01
72	0.2838E+00	-0.3009E+01	-0.2328E+00	0.6840E-01	0.6654E-02	0.4952E-01
73	0.2822E+00	-0.2624E+01	-0.6766E-01	0.2104E-01	0.6899E-02	-0.7817E-01
74	0.2820E+00	-0.2412E+01	-0.5273E-01	0.1572E-01	0.6155E-02	-0.9039E-01
75	0.2817E+00	-0.1900E+01	-0.2271E-01	0.5068E-02	0.6577E-02	-0.1130E+00
76	0.2813E+00	-0.1281E+01	0.1314E-01	-0.5584E-02	0.8475E-02	-0.1327E+00
77	0.2811E+00	-0.9368E+00	0.3552E-01	-0.1090E-01	0.9876E-02	-0.1412E+00
78	0.2811E+00	-0.3136E+00	0.6622E-01	-0.2508E-01	0.5605E-02	-0.1678E+00
9021	0.2808E+00	0.6359E+01	-0.1070E+00	-0.1264E+00	-0.1414E-01	-0.2719E+00
79	0.2804E+00	0.1411E+02	-0.5609E+00	-0.1276E+00	-0.1416E-01	-0.2524E+00
80	0.2803E+00	0.1671E+02	-0.6917E+00	-0.2661E+00	-0.9367E-02	-0.2256E+00
81	0.2802E+00	0.1731E+02	-0.7150E+00	-0.2756E+00	-0.7842E-02	-0.2188E+00
82	0.2938E+00	0.1700E+02	-0.7356E+00	-0.3024E+00	-0.1315E-02	-0.1945E+00
9022	0.1912E+00	0.8812E+01	-0.7359E+00	-0.3191E+00	0.6933E-02	-0.1188E+00
83	0.5276E-01	0.1642E+01	-0.7360E+00	-0.2140E+00	0.1284E-02	-0.4313E-01
84	0.5097E-01	0.1161E+01	-0.7360E+00	-0.1970E+00	0.5046E-04	-0.3624E-01
85	0.5152E-01	0.8411E+00	-0.7360E+00	-0.1841E+00	-0.9057E-03	-0.3131E-01
86	0.1004E-01	-0.8393E-02	-0.2280E+00	-0.8509E-01	-0.4517E-02	-0.6104E-02
87	0.1495E-07	0.1570E-06	-0.3996E-09	-0.6224E-07	0.4858E-08	-0.1061E-08

COUPLED MODE SHAPES (FOR SECONDARY MODE) MODE 17
FREQUENCY (HZ.) = 13.43931

MODAL DISP AT PRIMARY SYSTEM CONNETING DOF

DOF #	DISPLACEMENT
3041	-0.4794E-05
3042	0.0000E+00
3043	-0.2735E-04
3061	-0.1079E-04
3063	-0.9130E-04
3072	0.0000E+00
3081	-0.1620E-04
3103	-0.3308E-03
3121	-0.2854E-04
3122	0.0000E+00
3123	-0.4317E-03
3091	-0.1824E-04
3092	0.0000E+00
3093	-0.2050E-03

MODAL DISPLACEMENTS AT SECONDARY SYSTEM DOF

MODE	DX	DY	DZ	ROT-X	ROT-Y	ROT-Z
1	0.1183E-07	0.2842E-07	-0.8190E-08	0.2762E-08	0.1899E-08	0.9610E-08
2	-0.4528E-02	0.2864E-01	-0.4689E-02	0.1068E-02	0.2001E-02	0.1004E-01
3	-0.2587E-01	0.3116E+00	-0.6960E-01	0.3816E-03	0.6577E-02	0.2588E-01
4	-0.2549E-01	0.1104E+01	-0.2970E+00	-0.9150E-03	0.8946E-02	0.2865E-01
5	-0.2529E-01	0.1437E+01	-0.4070E+00	-0.1567E-02	0.7145E-02	0.2004E-01
9001	-0.3431E-01	0.1472E+01	-0.4206E+00	-0.1610E-02	0.6429E-02	0.1686E-01
9002	-0.5501E-01	0.1493E+01	-0.4313E+00	-0.1586E-02	0.5768E-02	0.1359E-01
6	-0.7726E-01	0.1500E+01	-0.4371E+00	-0.1532E-02	0.5167E-02	0.1033E-01
7	-0.9811E-01	0.1500E+01	-0.4407E+00	-0.1580E-02	0.4657E-02	0.8370E-02
9003	0.7414E-01	0.1500E+01	-0.4576E+00	0.1667E-02	-0.6475E-02	-0.1001E-01
9004	0.6293E+00	0.1500E+01	-0.2985E+00	0.6537E-02	-0.1745E-01	-0.2708E-02
9	-0.5808E-01	0.1499E+01	-0.4044E+01	0.6105E-02	-0.2842E-01	0.2714E-01
10	-0.2520E+00	0.1499E+01	-0.4106E-02	0.5201E-02	-0.3032E-01	0.3295E-01
9005	-0.1406E+01	0.1497E+01	0.6989E-01	-0.7805E-03	-0.3964E-01	0.3264E-01
9006	-0.1892E+01	0.1495E+01	-0.6720E-01	-0.8171E-02	-0.4896E-01	-0.7038E-02
11	-0.7543E+00	0.1492E+01	-0.4549E+00	-0.1695E-01	-0.5828E-01	-0.6757E-01
12	0.9382E-01	0.1491E+01	-0.6559E+00	-0.2059E-01	-0.6148E-01	-0.9041E-01
9007	0.2706E+00	0.1443E+01	-0.6645E+00	-0.2184E-01	-0.6199E-01	-0.9810E-01
9008	0.4102E+00	0.1303E+01	-0.6087E+00	-0.2291E-01	-0.6246E-01	-0.1054E+00
13	0.4845E+00	0.1098E+01	-0.5036E+00	-0.2389E-01	-0.6312E-01	-0.1120E+00
14	0.4645E+00	0.7816E+00	-0.3289E+00	-0.2530E-01	-0.6364E-01	-0.1163E+00
15	0.4644E+00	0.6055E-01	0.5604E-01	-0.2837E-01	-0.6455E-01	-0.1223E+00
16	0.4643E+00	-0.1657E+01	0.9652E+00	-0.3551E-01	-0.6545E-01	-0.1260E+00
17	0.3924E+00	-0.1980E+01	0.1139E+01	-0.3731E-01	-0.6541E-01	-0.1249E+00
18	0.7236E-01	-0.2397E+01	0.1459E+01	-0.4139E-01	-0.6494E-01	-0.1226E+00
19	-0.3736E+00	-0.2917E+01	0.1905E+01	-0.4954E-01	-0.6341E-01	-0.1171E+00
20	-0.1492E+01	-0.3708E+01	0.3022E+01	-0.7898E-01	-0.5856E-01	-0.9447E-01
21	-0.1319E+01	-0.3724E+01	0.2847E+01	-0.9218E-01	-0.5727E-01	-0.8292E-01
9009	0.1074E+01	-0.3723E+01	-0.1188E+01	-0.9388E-01	-0.5222E-01	-0.3426E-01
9010	0.1428E+01	-0.3727E+01	-0.3695E+01	-0.2079E-01	-0.4716E-01	0.1449E-01
22	0.3005E+00	-0.3716E+01	-0.2630E+01	0.6932E-01	-0.4211E-01	0.3378E-01
23	0.1919E-01	-0.3715E+01	-0.1975E+01	0.8414E-01	-0.4104E-01	0.3181E-01
24	-0.4461E+00	-0.3712E+01	-0.4287E+00	0.1015E+00	-0.3897E-01	0.2454E-01
9011	-0.9408E+00	-0.3705E+01	0.2857E+01	0.8247E-01	-0.3476E-01	0.4036E-02
9012	-0.7188E+00	-0.3697E+01	0.4480E+01	0.8621E-02	-0.3056E-01	-0.1617E-01
25	0.1170E-01	-0.3688E+01	0.3381E+01	-0.8993E-01	-0.2635E-01	-0.2473E-01
26	0.2455E+00	-0.3685E+01	0.2634E+01	-0.8634E-01	-0.2515E-01	-0.2414E-01
9013	0.9251E+00	-0.3674E+01	-0.8389E+00	-0.9418E-01	-0.2068E-01	-0.1147E-01
9014	0.9605E+00	-0.3661E+01	-0.3076E+01	-0.1897E-01	-0.1622E-01	0.9624E-02
27	0.3240E+00	-0.3647E+01	-0.1592E+01	0.1073E+00	-0.1175E-01	0.2375E-01
28	-0.2382E-02	-0.3641E+01	0.1770E+00	0.1600E+00	-0.1008E-01	0.2498E-01
29	-0.4826E+00	-0.3632E+01	0.3934E+01	0.2011E+00	-0.7560E-02	0.2194E-01
9015	-0.1012E+01	-0.3613E+01	0.1019E+02	0.9703E-01	-0.2852E-02	0.4112E-02
9016	-0.7445E+00	-0.3593E+01	0.9738E+01	-0.1249E+00	0.1855E-02	-0.1740E-01
30	0.1273E+00	-0.3572E+01	0.1756E+01	-0.2741E+00	0.6563E-02	-0.2581E-01
31	0.1532E+00	-0.3571E+01	0.1480E+01	-0.2758E+00	0.6669E-02	-0.2576E-01
32	0.2288E+00	-0.3260E+01	0.7361E+00	-0.2822E+00	0.7034E-02	-0.2540E-01
35	0.2757E+00	-0.2505E+01	0.4235E+00	-0.2791E+00	0.7305E-02	-0.2501E-01
37	0.3382E+00	-0.2589E+00	0.4226E+00	-0.2383E+00	0.7250E-02	-0.2380E-01

9017	0.5076E+00	0.3619E+01	0.4189E+00	-0.1321E-01	0.2097E-02	-0.1917E-01
9018	0.4398E+00	0.1559E+01	0.4151E+00	0.1205E+00	-0.6303E-02	-0.1455E-01
38	0.1277E+00	-0.2883E+01	0.4111E+00	0.1306E+00	-0.1203E-01	-0.9910E-02
39	-0.1296E-02	-0.4129E+01	0.4096E+00	0.1069E+00	-0.1267E-01	-0.8438E-02
9019	-0.3815E+00	-0.5961E+01	0.4054E+00	-0.4227E-02	-0.7705E-02	-0.3569E-02
40	-0.4246E+00	-0.3993E+01	0.4006E+00	-0.1011E+00	0.6396E-02	0.1299E-02
41	-0.1423E-01	-0.5549E+00	0.3967E+00	-0.1182E+00	0.2156E-01	0.5506E-02
43	0.7422E-01	-0.1040E+00	0.3035E+00	-0.1084E+00	0.2464E-01	0.4055E-02
44	0.7422E-01	-0.9792E-01	0.2672E+00	-0.1062E+00	0.2426E-01	0.3570E-02
45	0.7421E-01	-0.8736E-01	0.1764E+00	-0.1002E+00	0.2149E-01	0.2102E-02
9020	0.7416E-01	-0.1319E+00	-0.9092E-01	-0.5531E-01	0.6269E-03	-0.3594E-02
46	0.7410E-01	-0.2126E+00	-0.3958E-01	-0.1045E-01	-0.7053E-03	-0.6369E-03
47	0.7409E-01	-0.2135E+00	-0.3863E-01	-0.5732E-02	0.3132E-03	0.1384E-03
91	0.7488E-01	-0.2136E+00	-0.5465E-01	-0.4458E-02	0.1067E-02	-0.1069E-02
92	0.1264E+00	-0.2140E+00	-0.5963E-01	0.2790E-02	0.6491E-02	-0.6965E-02
93	0.1894E+00	-0.2358E+00	-0.4207E-01	0.6785E-02	0.9596E-02	-0.9316E-02
94	0.2220E+00	-0.2593E+00	-0.4200E-01	0.7298E-02	0.1013E-01	-0.1000E-01
95	0.2740E+00	-0.2969E+00	-0.4189E-01	0.7198E-02	0.1018E-01	-0.1106E-01
96	0.3239E+00	-0.3313E+00	-0.4178E-01	0.6306E-02	0.9358E-02	-0.1211E-01
97	0.3262E+00	-0.3329E+00	-0.4177E-01	0.6028E-02	0.9296E-02	-0.1216E-01
98	0.3072E+00	-0.3506E+00	-0.5486E-01	0.2093E-02	0.6144E-02	-0.1441E-01
100	0.2396E+00	-0.3507E+00	-0.6069E-01	0.8246E-03	0.4004E-02	-0.1597E-01
101	0.1901E+00	-0.3508E+00	-0.6196E-01	0.2971E-03	0.2577E-02	-0.1734E-01
102	0.1211E+00	-0.3509E+00	-0.6094E-01	-0.5195E-03	0.6869E-03	-0.1973E-01
113	0.2063E+00	-0.3583E+00	-0.6198E-01	0.2567E-02	0.2757E-02	-0.1488E-01
114	0.2179E+00	-0.3706E+00	-0.6199E-01	0.3134E-02	0.2612E-02	-0.1259E-01
115	0.2284E+00	-0.3844E+00	-0.6200E-01	0.3013E-02	0.2301E-02	-0.1029E-01
116	0.2412E+00	-0.4001E+00	-0.6202E-01	0.1663E-02	0.1800E-02	-0.6918E-02
118	0.2572E+00	-0.4023E+00	-0.6131E-01	-0.5195E-03	0.1190E-02	-0.4681E-02
9023	0.2436E+00	-0.4024E+00	-0.2126E+00	-0.9423E-02	-0.1683E-02	0.4868E-02
120	0.4861E-01	-0.4026E+00	-0.5678E+00	-0.1707E-01	-0.4556E-02	0.7021E-02
122	0.2265E-01	-0.3616E+00	-0.6275E+00	-0.1896E-01	-0.4845E-02	0.6394E-02
124	0.1776E-02	-0.2783E+00	-0.6275E+00	-0.2041E-01	-0.4923E-02	0.5647E-02
125	-0.4700E-01	-0.5460E-01	-0.6274E+00	-0.2364E-01	-0.4674E-02	0.3861E-02
127	-0.4950E-01	-0.1472E-03	-0.5719E+00	-0.2508E-01	-0.4423E-02	0.3180E-02
129	-0.3062E-02	-0.8679E-04	-0.1787E-01	-0.1192E-01	-0.2608E-02	0.7154E-03
9024	0.1787E-02	-0.4340E-04	0.4642E-01	0.2133E-02	-0.1304E-02	-0.4855E-04
130	0.1255E-09	-0.9489E-09	0.6517E-08	0.7604E-05	-0.7405E-10	-0.3379E-10
48	0.7399E-01	-0.2077E+00	-0.3961E-01	-0.4427E-02	0.3212E-03	0.3366E-02
49	0.7382E-01	-0.1781E+00	-0.4121E-01	-0.2251E-02	0.2987E-03	0.8007E-02
50	0.7364E-01	-0.1277E+00	-0.4260E-01	-0.7448E-04	0.2436E-03	0.1167E-01
51	0.7359E-01	-0.1092E+00	-0.4295E-01	0.5783E-03	0.2231E-03	0.1257E-01
52	0.7340E-01	-0.3177E-01	-0.4396E-01	0.2970E-02	0.1342E-03	0.1507E-01
53	0.7252E-01	0.4225E+00	-0.4152E-01	0.1352E-01	-0.3523E-03	0.2186E-01
54	0.7120E-01	0.1340E+01	-0.1761E-01	0.2908E-01	-0.9048E-03	0.2932E-01
55	0.7117E-01	0.1362E+01	-0.1698E-01	0.2941E-01	-0.9171E-03	0.2947E-01
56	0.6659E-01	0.1358E+01	-0.1310E-01	0.3197E-01	-0.9871E-03	0.3152E-01
57	0.6422E-01	0.1285E+01	-0.1314E-01	0.3251E-01	-0.6885E-03	0.3235E-01
58	0.6340E-01	0.1220E+01	-0.1317E-01	0.3287E-01	-0.3695E-03	0.3308E-01
59	0.6309E-01	0.1120E+01	-0.1322E-01	0.3314E-01	-0.8881E-04	0.3419E-01
103	0.6309E-01	0.9968E+00	-0.1435E-01	0.3261E-01	-0.7503E-03	0.3142E-01
104	0.6310E-01	0.7078E+00	-0.2887E-01	0.3028E-01	-0.1970E-02	0.3464E-01
105	0.6310E-01	0.5964E+00	-0.3472E-01	0.2953E-01	-0.1882E-02	0.3992E-01
106	0.6309E-01	0.4684E+00	-0.4007E-01	0.2878E-01	-0.1675E-02	0.4506E-01
107	0.6307E-01	-0.8171E-01	-0.5504E-01	0.2589E-01	-0.9911E-03	0.4489E-01
109	0.6168E-01	-0.1855E+00	-0.5647E-01	0.2542E-01	-0.8410E-03	0.4028E-01
111	0.5972E-01	-0.2667E+00	-0.5647E-01	0.2213E-01	-0.2013E-03	0.3216E-01
112	0.5971E-01	-0.2966E+00	-0.5647E-01	0.1994E-01	0.2376E-03	0.2875E-01
60	0.6329E-01	0.1020E+01	-0.1326E-01	0.3318E-01	-0.3417E-04	0.3538E-01
61	0.6329E-01	0.9206E+00	-0.1331E-01	0.3285E-01	-0.2145E-03	0.3656E-01
62	0.6326E-01	0.9124E+00	-0.1331E-01	0.3280E-01	-0.2400E-03	0.3666E-01
63	0.6066E-01	0.6489E+00	-0.1790E-01	0.3062E-01	-0.1764E-02	0.3866E-01
64	0.6088E-01	0.2211E+00	-0.4180E-01	0.2604E-01	-0.2037E-02	0.3800E-01
65	0.6098E-01	0.3443E-01	-0.5097E-01	0.2395E-01	-0.1394E-02	0.3609E-01
131	-0.5594E-01	0.3443E-01	0.2673E-01	0.2395E-01	-0.1394E-02	0.3607E-01
132	-0.1735E+00	0.3444E-01	0.1048E+00	0.2399E-01	-0.1394E-02	0.3613E-01
66	0.6087E-01	-0.1418E+00	-0.5574E-01	0.2223E-01	-0.5919E-03	0.3379E-01
67	0.6077E-01	-0.2805E+00	-0.5693E-01	0.2076E-01	-0.3856E-04	0.3097E-01
68	0.6070E-01	-0.3703E+00	-0.5647E-01	0.1973E-01	0.2806E-03	0.2850E-01
69	0.6062E-01	-0.4521E+00	-0.5511E-01	0.1860E-01	0.5548E-03	0.2558E-01
70	0.6057E-01	-0.5073E+00	-0.5361E-01	0.1776E-01	0.7200E-03	0.2312E-01
71	0.6045E-01	-0.6087E+00	-0.4919E-01	0.1588E-01	0.9619E-03	0.1684E-01
133	0.5565E-02	-0.6087E+00	0.2474E-02	0.1590E-01	0.9619E-03	0.1688E-01
134	-0.4940E-01	-0.6089E+00	0.5477E-01	0.1592E-01	0.9619E-03	0.1689E-01
72	0.6036E-01	-0.6754E+00	-0.4398E-01	0.1391E-01	0.1019E-02	0.1006E-01
73	0.5995E-01	-0.6180E+00	-0.3747E-01	0.5167E-02	-0.1165E-02	-0.1306E-01
74	0.5990E-01	-0.5827E+00	-0.4124E-01	0.4184E-02	-0.1526E-02	-0.1490E-01
75	0.5981E-01	-0.4994E+00	-0.5012E-01	0.2217E-02	-0.1595E-02	-0.1800E-01
76	0.5970E-01	-0.4026E+00	-0.5718E-01	0.2505E-03	-0.8087E-03	-0.2016E-01
77	0.5965E-01	-0.3509E+00	-0.5870E-01	-0.7320E-03	-0.1007E-03	-0.2083E-01
78	0.5966E-01	-0.2594E+00	-0.5962E-01	-0.2659E-02	-0.3306E-03	-0.2455E-01
9021	0.5965E-01	0.7091E+00	-0.8254E-01	-0.1643E-01	-0.9732E-03	-0.3952E-01
79	0.5963E-01	0.1842E+01	-0.1029E+00	-0.3019E-01	-0.2738E-03	-0.3713E-01
80	0.5962E-01	0.2226E+01	-0.1034E+00	-0.3542E-01	0.1988E-03	-0.3333E-01
81	0.5962E-01	0.2314E+01	-0.1027E+00	-0.3671E-01	0.3208E-03	-0.3236E-01
82	0.5725E-01	0.2284E+01	-0.1008E+00	-0.4039E-01	0.7867E-03	-0.2881E-01
9022	0.2942E-01	0.1188E+01	-0.1008E+00	-0.4289E-02	0.1159E-02	-0.1764E-01
83	0.8979E-02	0.2211E+00	-0.1008E+00	-0.2895E-01	0.1766E-03	-0.6460E-02
84	0.8731E-02	0.1559E+00	-0.1008E+00	-0.2664E-01	0.1518E-04	-0.5442E-02
85	0.8792E-02	0.1126E+00	-0.1009E+00	-0.2495E-01	-0.1078E-03	-0.4715E-02
86	0.1804E-02	-0.1584E-02	-0.3142E-01	-0.1159E-01	-0.5479E-03	-0.9965E-03
87	0.1517E-08	0.2138E-07	-0.1674E-08	-0.8530E-08	0.7572E-09	-0.2676E-09

COUPLED MODE SHAPES (FOR SECONDARY MODE) MODE 18
FREQUENCY (HZ.) = 14.79269

MODAL DISP AT PRIMARY SYSTEM CONNETING DOF

DOF #	DISPLACEMENT

3041	0.3972E-05
3042	0.0000E+00
3043	-0.6647E-05
3061	0.1458E-05
3063	-0.2234E-04
3072	0.0000E+00
3081	-0.7793E-05
3103	-0.8041E-04
3121	-0.4364E-04
3122	0.0000E+00
3123	-0.1049E-03
3091	-0.1321E-04
3092	0.0000E+00
3093	-0.4982E-04

MODAL DISPLACEMENTS AT SECONDARY SYSTEM DOF

NODE	DX	DY	DZ	ROT-X	ROT-Y	ROT-Z
1	-0.5111E-08	-0.3821E-08	0.1157E-07	-0.6438E-09	-0.3991E-08	-0.7277E-09
2	0.9376E-02	-0.3152E-02	0.9511E-02	-0.5449E-03	-0.3869E-02	-0.6549E-03
3	0.4832E-01	-0.2431E-01	0.1236E+00	-0.1308E-02	-0.1121E-01	-0.1319E-02
4	0.4615E-01	-0.4313E-01	0.4977E+00	-0.2620E-02	-0.1489E-01	0.5958E-03
5	0.4806E-01	-0.2043E-01	0.6860E+00	-0.3243E-02	-0.1262E-01	0.2993E-02
9001	0.4628E-01	-0.1413E-01	0.7077E+00	-0.3404E-02	-0.1197E-01	0.3773E-02
9002	0.4049E-01	-0.8460E-02	0.7188E+00	-0.3675E-02	-0.1115E-01	0.4553E-02
6	0.3118E-01	-0.6042E-02	0.7172E+00	-0.3952E-02	-0.1044E-01	0.5297E-02
7	0.1869E-01	-0.6051E-02	0.7082E+00	-0.4123E-02	-0.9656E-02	0.5723E-02
9003	-0.2395E+00	-0.6197E-02	0.4685E+00	-0.8121E-02	0.3106E-02	0.6199E-02
9004	-0.3221E+00	-0.6339E-02	0.1546E+00	-0.8467E-02	0.1587E-01	-0.2904E-02
9	0.1451E-01	-0.6479E-02	-0.4586E-02	0.1974E-02	0.2863E-01	-0.1536E-01
10	0.1189E+00	-0.6503E-02	0.1736E-01	0.5051E-02	0.3044E-01	-0.1715E-01
9005	0.6940E+00	-0.6616E-02	0.3725E+00	0.1586E-01	0.4168E-01	-0.1714E-01
9006	0.1092E+01	-0.6727E-02	0.9288E+00	0.1881E-01	0.5252E-01	-0.7496E-02
11	0.1188E+01	-0.6835E-02	0.1559E+01	0.2276E-01	0.6336E-01	-0.3686E-03
12	0.1192E+01	-0.6872E-02	0.1821E+01	0.2665E-01	0.6709E-01	-0.8565E-03
9007	0.1194E+01	-0.7486E-02	0.1838E+01	0.2836E-01	0.6765E-01	-0.1514E-02
9008	0.1196E+01	-0.1009E-01	0.1785E+01	0.2994E-01	0.6810E-01	-0.2308E-02
13	0.1197E+01	-0.1522E-01	0.1672E+01	0.3143E-01	0.6860E-01	-0.3166E-02
14	0.1197E+01	-0.2488E-01	0.1482E+01	0.3353E-01	0.6891E-01	-0.3808E-02
15	0.1197E+01	-0.5177E-01	0.1066E+01	0.3810E-01	0.6866E-01	-0.5096E-02
16	0.1196E+01	-0.1175E+00	0.1448E+00	0.4873E-01	0.6157E-01	-0.1749E-02
17	0.1261E+01	-0.1732E+00	-0.1271E-01	0.5065E-01	0.5663E-01	0.1900E-02
18	0.1522E+01	-0.4044E+00	-0.2747E+00	0.5459E-01	0.5017E-01	0.1027E-01
19	0.1839E+01	-0.6730E+00	-0.5923E+00	0.5659E-01	0.4145E-01	0.2569E-01
20	0.2436E+01	-0.8572E+00	-0.1192E+01	0.4313E-01	0.2627E-01	0.8523E-01
21	0.2117E+01	-0.5054E+00	-0.1132E+01	0.2851E-01	0.2326E-01	0.1120E+00
9009	-0.3088E+01	-0.5068E+00	-0.7090E+00	-0.3753E-03	0.1447E-01	0.1163E+00
9010	-0.5184E+01	-0.5080E+00	-0.7579E+00	0.1466E-02	0.5687E-02	-0.1796E-01
22	-0.1422E+01	-0.5089E+00	-0.4640E+00	0.1300E-01	-0.3101E-02	-0.1694E+00
23	0.1229E+00	-0.5091E+00	-0.3441E+00	0.1511E-01	-0.4963E-02	-0.1932E+00
24	0.3503E+01	-0.5093E+00	-0.7369E-01	0.1737E-01	-0.8552E-02	-0.2096E+00
9011	0.9236E+01	-0.5095E+00	0.4658E+00	0.1276E-01	-0.1587E-01	-0.1041E+00
9012	0.9409E+01	-0.5096E+00	0.6820E+00	-0.6588E-03	-0.2313E-01	0.9700E-01
25	0.3402E+01	-0.5094E+00	0.4294E+00	-0.1337E-01	-0.3050E-01	0.2392E+00
26	0.1045E+01	-0.5093E+00	0.2905E+00	-0.1565E-01	-0.3259E-01	0.2532E+00
9013	-0.7182E+01	-0.5088E+00	-0.2922E+00	-0.1450E-01	-0.4035E-01	0.1754E+00
9014	-0.9794E+01	-0.5082E+00	-0.5855E+00	-0.3053E-03	-0.4812E-01	-0.3925E-01
27	-0.4762E+01	-0.5073E+00	-0.2634E+00	0.1825E-01	-0.5588E-01	-0.2227E+00
28	-0.1567E+01	-0.5069E+00	0.2119E-01	0.2457E-01	-0.5873E-01	-0.2539E+00
29	0.3555E+01	-0.5062E+00	0.5674E+00	0.2795E-01	-0.6317E-01	-0.2449E+00
9015	0.1001E+02	-0.5047E+00	0.1354E+01	0.9156E-02	-0.7135E-01	-0.6883E-01
9016	0.7846E+01	-0.5029E+00	0.1086E+01	-0.2311E-01	-0.7954E-01	0.1767E+00
30	-0.1504E+01	-0.5008E+00	-0.1903E+00	-0.4056E-01	-0.8772E-01	0.2848E+00
31	-0.1790E+01	-0.5008E+00	-0.2310E+00	-0.4065E-01	-0.8794E-01	0.2845E+00
32	-0.2640E+01	-0.4556E+00	-0.3396E+00	-0.4082E-01	-0.8810E-01	0.2819E+00
35	-0.3182E+01	-0.3474E+00	-0.3845E+00	-0.4001E-01	-0.8677E-01	0.2785E+00
37	-0.3891E+01	-0.2402E-01	-0.3846E+00	-0.3517E-01	-0.7863E-01	0.2689E+00
9017	-0.5370E+01	0.6560E+00	-0.3848E+00	-0.7085E-02	-0.4257E-02	0.2322E+00
9018	-0.4082E+01	0.5015E+00	-0.3849E+00	0.1466E-01	0.7815E-01	0.1955E+00
38	-0.9783E+00	-0.1340E+00	-0.3848E+00	0.2131E-01	0.9715E-01	0.1588E+00
39	-0.3133E-01	-0.3481E+00	-0.3847E+00	0.1952E-01	0.8280E-01	0.1470E+00
9019	0.1686E+01	-0.8066E+00	-0.3843E+00	0.5671E-02	0.1800E-01	0.1084E+00
40	0.1357E+01	-0.7022E+00	-0.3836E+00	-0.1107E-01	-0.3222E-01	0.6973E-01
41	0.1404E+00	-0.2461E+00	-0.3830E+00	-0.1785E-01	-0.4361E-01	0.3633E-01
43	-0.1883E-01	-0.6192E-01	-0.2285E+00	-0.1692E-01	-0.3906E-01	0.2806E-01
44	-0.1889E-01	-0.2239E-01	-0.1727E+00	-0.1687E-01	-0.3825E-01	0.2670E-01
45	-0.1902E-01	0.7243E-01	-0.3097E-01	-0.1673E-01	-0.3572E-01	0.2314E-01
9020	-0.2005E-01	0.4025E+00	0.7032E+00	-0.1572E-01	-0.1612E-01	0.1611E-02
46	-0.2108E-01	0.2679E+00	0.9421E+00	-0.1472E-01	-0.2296E-02	-0.8701E-02
47	-0.2118E-01	0.2411E+00	0.9474E+00	-0.1460E-01	-0.1419E-02	-0.9006E-02
91	0.5484E-02	0.2411E+00	0.9033E+00	-0.1454E-01	-0.1403E-02	-0.8665E-02
92	0.9250E-01	0.2412E+00	0.7551E+00	-0.1024E-01	-0.1291E-02	-0.7197E-02
93	0.1142E+00	0.2594E+00	0.7271E+00	-0.1167E-02	-0.1054E-02	-0.6986E-02
94	0.1110E+00	0.2583E+00	0.7270E+00	0.1962E-02	-0.7898E-03	-0.6965E-02
95	0.1083E+00	0.2562E+00	0.7267E+00	0.7014E-02	-0.9392E-04	-0.6932E-02
96	0.1101E+00	0.1881E+00	0.7264E+00	0.1226E-01	0.9917E-03	-0.6899E-02
97	0.1103E+00	0.1850E+00	0.7264E+00	0.1252E-01	0.1057E-02	-0.6897E-02
98	0.9315E-01	0.1225E+00	0.6525E+00	0.2285E-01	0.3880E-02	-0.6303E-02
100	0.6544E-01	0.1225E+00	0.5417E+00	0.2545E-01	0.5805E-02	-0.5810E-02
101	0.4654E-01	0.1225E+00	0.4629E+00	0.2625E-01	0.7088E-02	-0.5283E-02
102	0.2977E-01	0.1225E+00	0.3625E+00	0.2631E-01	0.8554E-02	-0.4510E-02
113	0.9213E-01	-0.3116E-01	0.4630E+00	0.2432E-01	0.7442E-02	-0.4254E-02
114	0.1240E+00	-0.1297E+00	0.4630E+00	0.2185E-01	0.7487E-02	-0.3296E-02
115	0.1556E+00	-0.2164E+00	0.4630E+00	0.1879E-01	0.7345E-02	-0.2338E-02
116	0.2005E+00	-0.3179E+00	0.4630E+00	0.1345E-01	0.6986E-02	-0.9275E-03
118	0.2166E+00	-0.3435E+00	0.4850E+00	0.7654E-02	0.6523E-02	0.3650E-04
9023	0.1505E+00	-0.3437E+00	0.3578E+00	-0.1473E-01	0.3786E-02	0.4309E-02
120	0.6685E-02	-0.3437E+00	-0.2064E+00	-0.2116E-01	0.1046E-02	0.4725E-02
122	-0.1615E-02	-0.2976E+00	-0.2531E+00	-0.2007E-01	0.7395E-03	0.4217E-02

124	0.1048E-02	-0.2145E+00	-0.2531E+00	-0.1916E-01	0.56[illegible]E-03	0.3621E-02
125	0.5773E-02	-0.3445E-01	-0.2532E+00	-0.1606E-01	0.4011E-03	0.2196E-02
127	0.1074E-01	-0.3464E-03	-0.2206E+00	-0.1360E-01	0.3222E-03	0.1626E-02
129	0.2941E-01	-0.2043E-02	-0.2319E-02	-0.3552E-02	0.1900E-03	-0.4232E-03
9024	0.9810E-02	-0.1022E-03	0.1537E-01	0.7558E-03	0.9499E-04	-0.8339E-03
130	0.5120E-09	-0.2234E-08	0.2045E-08	0.2450E-09	0.5395E-11	-0.1089E-09
48	-0.2126E-01	0.2123E+00	0.9508E+00	-0.1420E-01	-0.5066E-03	-0.9819E-02
49	-0.2138E-01	0.1605E+00	0.9489E+00	-0.1353E-01	0.1617E-02	-0.1053E-01
50	-0.2151E-01	0.1071E+00	0.9346E+00	-0.1286E-01	0.4151E-02	-0.1036E-01
51	-0.2154E-01	0.9150E-01	0.9278E+00	-0.1265E-01	0.4926E-02	-0.1013E-01
52	-0.2168E-01	0.3873E-01	0.8929E+00	-0.1192E-01	0.7779E-02	-0.8575E-02
53	-0.2227E-01	-0.7147E-01	0.5807E+00	-0.8662E-02	0.1659E-01	-0.1147E-02
54	-0.2313E-01	-0.3509E-01	0.1782E-01	-0.3861E-02	0.1010E-01	0.1547E-02
55	-0.2314E-01	-0.3392E-01	0.1040E-01	-0.3763E-02	0.9676E-02	0.1498E-02
56	-0.1428E-02	-0.1775E-01	-0.1750E-01	-0.2603E-02	0.3920E-02	0.5770E-03
57	0.6001E-02	-0.1217E-01	-0.1751E-01	-0.2278E-02	0.2951E-02	0.2840E-03
58	0.1095E-01	-0.7863E-02	-0.1751E-01	-0.1952E-02	0.2202E-02	0.2345E-04
59	0.1580E-01	-0.2711E-02	-0.1751E-01	-0.1399E-02	0.1249E-02	-0.3673E-03
103	0.1582E-01	0.1352E-02	-0.1426E-01	-0.5265E-03	0.9331E-04	-0.2608E-02
104	0.1590E-01	0.5260E-01	-0.2712E-01	0.3013E-02	-0.2196E-02	-0.7156E-02
105	0.1592E-01	0.7423E-01	-0.3374E-01	0.4157E-02	-0.2134E-02	-0.7104E-02
106	0.1595E-01	0.9486E-01	-0.3972E-01	0.5301E-02	-0.1816E-02	-0.6595E-02
107	0.1604E-01	0.1551E+00	-0.4953E-01	0.9684E-02	0.3218E-03	-0.3721E-02
109	0.1702E-01	0.1451E+00	-0.4875E-01	0.1041E-01	0.7267E-03	-0.3013E-02
111	0.1902E-01	0.1084E+00	-0.4875E-01	0.1129E-01	0.1264E-03	-0.1779E-02
112	0.1878E-01	0.9219E-01	-0.4875E-01	0.1162E-01	-0.5770E-03	-0.1260E-02
60	0.1811E-01	0.6707E-03	-0.1751E-01	-0.7799E-03	0.5254E-03	-0.7139E-03
61	0.1857E-01	0.2090E-02	-0.1752E-01	-0.9046E-04	0.2043E-04	-0.1061E-02
62	0.1855E-01	0.2113E-02	-0.1752E-01	-0.2993E-04	-0.1174E-04	-0.1089E-02
63	0.1681E-01	0.4141E-02	-0.1977E-01	0.2[illegible]E-02	-0.7335E-03	-0.1538E-02
64	0.1659E-01	0.2328E-01	-0.2969E-01	0.6202E-02	-0.1054E-02	-0.1720E-02
65	0.1649E-01	0.3155E-01	-0.3529E-01	0.7975E-02	-0.1180E-02	-0.1491E-02
131	0.2114E-01	0.3155E-01	-0.9230E-02	0.8005E-02	-0.1180E-02	-0.1466E-02
132	0.2596E-01	0.3156E-01	0.1683E-01	0.8012E-02	-0.1180E-02	-0.1477E-02
66	0.1648E-01	0.3901E-01	-0.4149E-01	0.9474E-02	-0.1163E-02	-0.1447E-02
67	0.1647E-01	0.4502E-01	-0.4621E-01	0.1074E-01	-0.9342E-03	-0.1338E-02
68	0.1647E-01	0.4891E-01	-0.4875E-01	0.1164E-01	-0.6546E-03	-0.1222E-02
69	0.1646E-01	0.5239E-01	-0.5035E-01	0.1254E-01	-0.3090E-03	-0.1067E-02
70	0.1646E-01	0.5467E-01	-0.5079E-01	0.1322E-01	0.1328E-04	-0.9129E-03
71	0.1645E-01	0.5854E-01	-0.4878E-01	0.1473E-01	0.9219E-03	-0.5[illegible]4E-03
133	0.1815E-01	0.5855E-01	-0.8280E-03	0.1475E-01	0.9219E-03	-0.5540E-03
134	0.1999E-01	0.5856E-01	0.4725E-01	0.1477E-01	0.9219E-03	-0.5622E-03
72	0.1652E-01	0.6116E-01	-0.4156E-01	0.1605E-01	0.2129E-02	-0.5243E-03
73	0.1681E-01	0.8137E-01	0.9653E+00	0.2196E-01	0.1147E-01	-0.1729E-02
74	0.1685E-01	0.8599E-01	0.1277E+00	0.2263E-01	0.1258E-01	-0.2016E-02
75	0.1691E-01	0.9761E-01	0.1946E+00	0.2396E-01	0.1297E-01	-0.2705E-02
76	0.1697E-01	0.1131E+00	0.2574E+00	0.2529E-01	0.1101E-01	-0.3580E-02
77	0.1701E-01	0.1226E+00	0.2837E+00	0.2595E-01	0.9165E-02	-0.4100E-02
78	0.1699E-01	0.1383E+00	0.3160E+00	0.2469E-01	0.7002E-02	-0.3731E-02
9021	0.1687E-01	0.2043E+00	0.3298E+00	0.1573E-01	-0.4866E-02	-0.8060E-03
79	0.1674E-01	0.1902E+00	0.1147E+00	0.6757E-02	-0.8382E-02	0.1497E-02
80	0.1669E-01	0.1715E+00	0.2900E-01	0.3350E-02	-0.7008E-02	0.1821E-02
81	0.1667E-01	0.1666E+00	0.1078E-01	0.2508E-02	-0.6423E-02	0.1829E-02
82	0.3414E-01	0.1640E+00	-0.9750E-02	0.3646E-03	-0.3613E-02	0.1836E-02
9022	0.5643E-01	0.1159E+00	-0.1003E-01	-0.3426E-02	0.1150E-02	0.1238E-02
83	0.1013E-01	0.2368E-01	-0.1030E-01	-0.2923E-02	0.1665E-02	0.5407E-03
84	0.6381E-02	0.1711E-01	-0.1033E-01	-0.2642E-02	0.1490E-02	0.4772E-03
85	0.3968E-02	0.1284E-01	-0.1034E-01	-0.2416E-02	0.1343E-02	0.4318E-03
86	-0.5330E-03	0.6242E-03	-0.2019E-02	-0.7949E-03	0.2718E-03	0.1975E-03
87	0.4572E-08	0.4926E-08	0.8839E-08	-0.3615E-09	0.2715E-10	0.1744E-09

COUPLED MODE SHAPES (FOR SECONDARY MODE) MODE 19
FREQUENCY (HZ.) = 16.09074

MODAL DISP AT PRIMARY SYSTEM CONNETING DOF

DOF #	DISPLACEMENT
3041	0.1814E-05
3042	0.0000E+00
3043	-0.4079E-04
3061	0.1459E-05
3063	-0.1371E-03
3072	0.0000E+00
3081	-0.1311E-05
3103	-0.4935E-03
3121	-0.1280E-04
3122	0.0000E+00
3123	-0.6439E-03
3091	-0.3031E-05
3092	0.0000E+00
3093	-0.3057E-03

MODAL DISPLACEMENTS AT SECONDARY SYSTEM DOF

NODE	DX	DY	DZ	ROT-X	ROT-Y	ROT-Z
1	0.1953E-08	-0.8118E-09	-0.2456E-08	0.2858E-09	0.1112E-08	-0.5600E-09
2	-0.2636E-02	-0.6286E-03	-0.2671E-02	0.4355E-03	0.1109E-02	-0.6731E-03
3	-0.1409E-01	-0.1540E-01	-0.3678E-01	0.1581E-02	0.3469E-02	-0.1918E-02
4	-0.1403E-01	-0.8483E-01	-0.1646E+00	0.3520E-02	0.5737E-02	-0.3173E-02
5	-0.1399E-01	-0.1302E+00	-0.2446E+00	0.4490E-02	0.6160E-02	-0.3606E-02
9001	-0.1214E-01	-0.1371E+00	-0.2539E+00	0.4633E-02	0.6220E-02	-0.3718E-02
9002	-0.6942E-02	-0.1422E+00	-0.2560E+00	0.4796E-02	0.6254E-02	-0.3821E-02
6	0.3307E-03	-0.1442E+00	-0.2499E+00	0.4989E-02	0.6293E-02	-0.3906E-02
7	0.9196E-02	-0.1442E+00	-0.2386E+00	0.5115E-02	0.6352E-02	-0.3944E-02
9003	0.1368E+00	-0.1441E+00	-0.3469E-01	0.5332E-02	0.7311E-02	-0.2238E-02
9004	0.1428E+00	-0.1440E+00	0.1040E+00	0.1412E-02	0.8270E-02	0.2051E-02
9	-0.1055E-02	-0.1437E+00	0.3029E-01	-0.5739E-02	0.9230E-02	0.5255E-02

10	-0.3544E-01	-0.1417E+00	-0.1075E-01	-0.7153E-02	0.9396E-02	0.5485E-02
9005	-0.2059E+00	-0.1433E+00	-0.2869E+00	-0.8558E-02	0.1021E-01	0.4967E-02
9006	-0.3362E+00	-0.1429E+00	-0.4552E+00	-0.1055E-02	0.1103E-01	0.3489E-02
11	-0.4586E+00	-0.1425E+00	-0.3231E+00	0.9385E-02	0.1184E-01	0.5412E-02
12	-0.5278E+00	-0.1423E+00	-0.2043E+00	0.1260E-01	0.1212E-01	0.7777E-02
9007	-0.5432E+00	-0.1380E+00	-0.1858E+00	0.1155E-01	0.1211E-01	0.8821E-02
9008	-0.5560E+00	-0.1251E+00	-0.1832E+00	0.1434E-01	0.1206E-01	0.9874E-02
13	-0.5611E+00	-0.1055E+00	-0.1985E+00	0.1502E-01	0.1211E-01	0.1085E-01
14	-0.5611E+00	-0.7445E-01	-0.2320E+00	0.1594E-01	0.1224E-01	0.1147E-01
15	-0.5610E+00	-0.2354E-02	-0.3065E+00	0.1794E-01	0.1269E-01	0.1226E-01
16	-0.5607E+00	0.1680E+00	-0.4972E+00	0.2260E-01	0.1510E-01	0.1141E-01
17	-0.5431E+00	0.1714E+00	-0.5390E+00	0.2380E-01	0.1650E-01	0.1019E-01
18	-0.4579E+00	0.9551E-01	-0.6239E+00	0.2605E-01	0.1802E-01	0.8290E-02
19	-0.3273E+00	-0.5288E-01	-0.7541E+00	0.3022E-01	0.1934E-01	0.4616E-02
20	0.3452E-01	-0.7901E+00	-0.1115E+01	0.4694E-01	0.1919E-01	-0.1077E-01
21	0.1446E+00	-0.9594E+00	-0.9674E+00	0.5553E-01	0.1826E-01	-0.1886E-01
9009	0.1113E+01	-0.9563E+00	0.1365E+01	0.4820E-01	0.1314E-01	-0.2045E-01
9010	0.1344E+01	-0.9565E+00	0.2235E+01	-0.9457E-02	0.8021E-02	0.1145E-01
22	0.3025E+00	-0.9540E+00	0.7460E+00	-0.5636E-01	0.2902E-02	0.3517E-01
23	-0.2222E-02	-0.9534E+00	0.2515E+00	-0.5970E-01	0.1817E-02	0.3608E-01
24	-0.5769E+00	-0.9521E+00	-0.7265E+00	-0.5747E-01	-0.2731E-03	0.3278E-01
9011	-0.1332E+01	-0.9490E+00	-0.2159E+01	-0.2170E-01	-0.4535E-02	0.8929E-0
9012	-0.1095E+01	-0.9454E+00	-0.1987E+01	0.1132E-01	-0.8797E-02	-0.2207E-0
25	-0.3941E-01	-0.9414E+00	-0.3227E+00	0.6098E-01	-0.1306E-01	-0.3644E-01
26	0.3051E+00	-0.9402E+00	0.3635E+00	0.6143E-01	-0.1427E-01	-0.3550E-01
9013	0.1271E+01	-0.9353E+00	0.2060E+01	0.3158E-01	-0.1880E-01	-0.1440E-01
9014	0.1187E+01	-0.9300E+00	0.2213E+01	-0.2305E-01	-0.2332E-01	0.1866E-01
27	0.1482E+00	-0.9241E+00	0.7194E+00	-0.5245E-01	-0.2784E-01	0.3490E-01
28	-0.3115E+00	-0.9214E+00	0.3179E-01	-0.4949E-01	-0.2953E-01	0.3292E-01
29	-0.8794E+00	-0.9181E+00	-0.8299E+00	-0.3564E-01	-0.3209E-01	0.2314E-01
9015	-0.1140E+01	-0.9106E+00	-0.1571E+01	-0.1728E-02	-0.3685E-01	-0.1010E-01
9016	-0.1936E+00	-0.9027E+00	-0.1350E+01	0.8419E-02	-0.4162E-01	-0.3696E-01
30	0.1328E+01	-0.8942E+00	-0.1674E+01	-0.3928E-01	-0.4639E-01	-0.3997E-01
31	0.1368E+01	-0.8939E+00	-0.1714E+01	-0.4165E-01	-0.4652E-01	-0.3969E-01
32	0.1420E+01	-0.8378E+00	-0.1841E+01	-0.5456E-01	-0.4707E-01	-0.3818E-01
33	0.1335E+01	-0.6746E+00	-0.1905E+01	-0.6517E-01	-0.4776E-01	-0.3692E-01
34	0.9288E+00	-0.4636E-01	-0.1905E+01	-0.6781E-01	-0.4860E-01	-0.3370E-01
9017	-0.5384E+00	0.1506E+01	-0.1901E+01	-0.2707E-01	-0.3694E-03	-0.2135E-01
9018	-0.1206E+01	0.1591E+01	-0.1897E+01	0.2070E-01	-0.8793E-03	-0.8997E-02
38	-0.5024E+00	0.1830E+00	-0.1892E+01	0.4780E-01	0.4400E-01	0.3156E-02
39	0.2597E-01	-0.1256E+00	-0.1890E+01	0.4847E-01	0.5766E-01	0.7315E-02
9019	0.2154E+01	-0.1515E+01	-0.1882E+01	0.2590E-01	0.4926E-01	0.2031E-01
40	0.2477E+01	-0.1623E+01	-0.1874E+01	-0.2097E-01	-0.4054E-01	0.3331E-01
41	-0.2723E+0	-0.4407E+00	-0.1866E+01	-0.5626E-01	-0.1477E+00	0.4454E-01
43	-0.8815E+00	-0.4196E-01	-0.1217E+01	-0.6435E-01	-0.1835E+00	0.4776E-01
44	-0.8815E+00	0.1715E-01	-0.9480E+00	-0.6585E-01	-0.1867E+00	0.4802E-01
45	-0.8814E+00	0.2118E+00	-0.2194E+00	-0.6989E-01	-0.1915E+00	0.4826E-01
9020	-0.8805E+00	0.1378E+01	0.5014E+01	-0.9998E-02	-0.1580E+00	0.2604E-01
46	-0.8793E+00	0.1389E+01	0.4170E+01	-0.1301E+00	-0.5672E-01	-0.2967E-01
47	-0.8792E+00	0.1289E+01	0.4321E+01	-0.1332E+00	-0.4423E-01	-0.3694E-01
91	-0.7689E+00	0.1290E+01	0.7918E+01	-0.1341E+00	-0.3975E-01	-0.3625E-01
92	-0.3883E+00	0.1291E+01	0.6480E+01	-0.1084E+00	-0.7483E-02	-0.3149E-01
93	-0.2561E+00	0.1553E+01	0.6147E+01	-0.4141E-01	0.1249E-01	-0.2988E-01
94	-0.2040E+00	0.1651E+01	0.6146E+01	-0.1667E-01	0.1965E-01	-0.2814E-01
95	-0.78 E-01	0.1635E+01	0.6144E+01	0.2536E-01	0.3067E-01	-0.2546E-01
96	0.1029E+00	0.1397E+01	0.6141E+01	0.7138E-01	0.4164E-01	-0.2277E-01
97	0.1134E+00	0.1179E+01	0.6141E+01	0.7376E-01	0.4218E-01	-0.2264E-01
98	0.2313E+00	0.9610E+00	0.5617E+01	0.1697E+00	0.6266E-01	-0.1670E-01
100	0.1603E+00	0.9614E+00	0.4777E+01	0.1951E+00	0.7536E-01	-0.1492E-01
101	0.1173E+00	0.9617E+00	0.4168E+01	0.2037E+00	0.8382E-01	-0.1377E-01
102	0.6669E-01	0.96 E+00	0.3386E+01	0.2044E+00	0.9251E-01	-0.1283E-01
113	0.6357E+00	-0.2 E+00	0.4169E+01	0.1953E+00	0.8938E-01	-0.8038E-02
114	0.1022E+01	-0. E+00	0.4169E+01	0.1797E+00	0.9132E-01	-0.2705E-02
115	0.1410E+01	-0. E+01	0.4169E+01	0.1574E+00	0.9098E-01	0.2629E-02
116	0.1972E+01	-0. E+01	0.4169E+01	0.1143E+00	0.8822E-01	0.1048E-01
118	0.2136E+0	E+01	0.4356E+01	0.6481E-01	0.8415E-01	0.1613E-01
9023	0.1271E+01	-0.2849E+01	0.3200E+01	-0.1304E+00	0.5752E-01	0.4317E-01
120	-0.7698E-01	-0.2850E+01	-0.1728E+01	-0.1805E+00	0.3088E-01	0.4247E-01
122	-0.1034E+00	-0.2462E+01	-0.2125E+01	-0.1682E+00	0.2781E-01	0.3752E-01
124	0.9525E-02	-0.1769E+01	-0.2125E+01	-0.1590E+00	0.2567E-01	0.3178E-01
125	0.2553E+00	-0.2835E+00	-0.2125E+01	-0.1323E+00	0.2279E-01	0.1806E-01
127	0.3376E+00	-0.2142E-02	-0.1856E+01	-0.1127E+00	0.2090E-01	0.1244E-01
129	0.3628E+00	-0.1263E-02	-0.2146E-01	-0.3034E-01	0.1233E-01	-0.8698E-02
9024	0.1423E+00	-0.6318E-03	0.1306E+00	0.6390E-02	0.6163E-02	-0.1261E-01
130	0.6700E-08	-0.1381E-07	0.1745E-07	0.2086E-08	0.3500E-09	-0.1536E-08
48	-0.8790E+00	0.1164E+01	0.8448E+01	-0.1306E+00	-0.3677E-01	-0.4479E-01
49	-0.8787E+00	0.9110E+00	0.8593E+01	-0.1262E+00	-0.1705E-01	-0.5408E-01
50	-0.8783E+00	0.6234E+00	0.8618E+01	-0.1218E+00	0.8102E-02	-0.5823E-01
51	-0.8782E+00	0.5345E+00	0.8601E+01	-0.1205E+00	0.1600E-01	-0.5841E-01
52	-0.8778E+00	0.2154E+00	0.8432E+01	-0.1157E+00	0.4590E-01	-0.5477E-01
53	-0.8755E+00	-0.7912E+00	0.5920E+01	-0.9441E-01	0.1502E+00	-0.3069E-01
54	-0.8717E+00	-0.1699E+01	0.1773E+00	-0.6304E-01	0.1247E+00	-0.2795E-01
55	-0.8716E+00	-0.1719E+01	0.8494E-01	-0.6238E-01	0.1214E+00	-0.2839E-01
56	-0.5328E+00	-0.1618E+01	-0.3045E+00	-0.5437E-01	0.7075E-01	-0.3630E-01
57	-0.3853E+00	-0.1498E+01	-0.3045E+00	-0.5205E-01	0.5898E-01	-0.3888E-01
58	-0.2801E+00	-0.1395E+01	-0.3045E+00	-0.4964E-01	0.4876E-01	-0.4117E-01
59	-0.1578E+00	-0.1251E+01	-0.3045E+00	-0.4533E-01	0.3559E-01	-0.4460E-01
103	-0.1573E+00	-0.1072E+01	-0.1962E+00	-0.3783E-01	0.1560E-01	-0.5651E-01
104	-0.1553E+00	-0.1663E+00	-0.2908E+00	-0.7332E-02	-0.2459E-01	-0.9124E-01
105	-0.1546E+00	-0.8289E-01	-0.3655E+00	0.2519E-02	-0.2382E-01	-0.9700E-01
106	-0.1539E+00	0.2128E+00	-0.4296E+00	0.1237E-01	-0.1805E-01	-0.9927E-01
107	-0.1513E+00	0.1269E+01	-0.3920E+00	0.5012E-01	0.3161E-01	-0.7615E-01
108	-0.9103E-01	0.1297E+01	-0.3370E+00	0.5630E-01	0.4144E-01	-0.6486E-01
111	0.2961E-01	0.1090E+01	-0.3370E+00	0.6704E-01	0.2021E-01	-0.4512E-01
112	0.4484E-01	0.9914E+0	0.3370E+00	0.7212E-01	-0.2335E-02	-0.3683E-01
60	-0.7094E-01	-0.1122E+01	-0.3045E+00	-0.4024E-01	0.2548E-01	-0.4783E-01
61	-0.9975E-02	-0.1009E+01	-0.3045E+00	-0.3429E-01	0.1830E-01	-0.5106E-01
62	-0.5798E-02	-0.1000E+01	-0.3045E+00	-0.3375E-01	0.1783E-01	-0.5133E-01
63	0.3626E-01	-0.6997E+00	-0.2710E+00	-0.1256E-01	0.6384E-02	-0.5523E-01
64	0.3340E-01	-0.8221E-01	-0.2404E+00	0.2341E-01	-0.1012E-02	-0.5421E-01
65	0.3211E-01	0.1809E+00	-0.2543E+00	0.3979E-01	-0.4681E-02	-0.4970E-01

131	0.1922E+00	0.1809E+00	-0.1236E+00	0.4003E-01	-0.4681E-02	-0.4959E-01
132	0.3542E+00	0.1810E+00	0.6566E-03	0.4003E-01	-0.4681E-02	-0.4976E-01
66	0.3155E-01	0.4214E+00	-0.2872E+00	0.5315E-01	-0.6927E-02	-0.4552E-01
67	0.3104E-01	0.6060E+00	-0.3185E+00	0.6450E-01	-0.6442E-02	-0.4052E-01
68	0.3074E-01	0.7221E+00	-0.3370E+00	0.7252E-01	-0.4784E-02	-0.3621E-01
69	0.3050E-01	0.8242E+00	-0.3505E+00	0.8067E-01	-0.2986E-02	-0.3114E-01
70	0.3031E-01	0.8902E+00	-0.3561E+00	0.8679E-01	-0.9211E-03	-0.2692E-01
71	0.2991E-01	0.1000E+01	-0.3475E+00	0.1004E+00	0.5871E-02	-0.1629E-01
133	0.8219E-01	0.1001E+01	-0.2033E-01	0.1006E+00	0.5871E-02	-0.1623E-01
134	0.1353E+00	0.1001E+01	0.3077E+00	0.1008E+00	0.5871E-02	-0.1630E-01
72	0.2982E-01	0.1056E+01	-0.2972E+00	0.1123E+00	0.1613E-01	-0.6997E-02
73	0.2943E-01	0.9647E+00	0.9356E+00	0.1653E+00	0.1087E+00	0.6867E-02
74	0.2938E-01	0.9480E+00	0.1233E+01	0.1712E+00	0.1205E+00	0.5530E-02
75	0.2929E-01	0.9287E+00	0.1481E+01	0.1831E+00	0.1272E+00	0.8035E-03
76	0.2920E-01	0.9400E+00	0.2505E+01	0.1951E+00	0.1118E+00	-0.7052E-02
77	0.2915E-01	0.9626E+00	0.2794E+01	0.2010E+00	0.9614E-01	-0.1230E-01
78	0.2897E-01	0.1027E+01	0.3115E+01	0.1893E+00	0.7430E-01	-0.1925E-01
9021	0.2762E-01	0.2033E+01	0.3332E+01	0.1058E+00	-0.4805E-01	-0.4319E-01
79	0.2626E-01	0.3205E+01	0.1136E+01	0.2220E-01	-0.8694E-01	-0.3530E-01
80	0.2574E-01	0.3555E+01	0.2418E+00	-0.9541E-02	-0.7363E-01	-0.2943E-01
81	0.2561E-01	0.3632E+01	0.5002E-01	-0.1739E-01	-0.6777E-01	-0.2827E-01
82	0.2131E+00	0.3618E+01	-0.1604E+00	-0.3795E-01	-0.3942E-01	-0.2311E-01
9022	0.5109E+00	0.2124E+01	-0.1713E+00	-0.7111E-01	0.6927E-02	-0.1412E-01
83	0.1067E+00	0.3980E+00	-0.1741E+00	-0.5267E-01	0.1457E-01	-0.5141E-02
84	0.7401E-01	0.2797E+00	-0.1743E+00	-0.4795E-01	0.1284E-01	-0.4323E-02
85	0.5331E-01	0.2021E+00	-0.1745E+00	-0.4426E-01	0.1138E-01	-0.3738E-02
86	0.1249E-02	-0.1866E-03	-0.4193E-01	-0.1714E-01	0.1302E-02	-0.6168E-03
87	0.4628E-07	0.6441E-07	0.9037E-07	-0.1019E-07	0.4845E-10	-0.5250E-12

COUPLED MODE FREQUENCY (HZ.) = 14.59752

MODAL DISP AT PRIMARY SYSTEM CONNETING DOF

DOF #	DISPLACEMENT
3041	0.4933E-06
3042	0.0000E+00
3043	0.3551E-05
3061	-0.2389E-05
3063	0.1193E-04
3072	0.0000E+00
3081	-0.8251E-05
3103	0.4296E-04
3121	-0.2452E-04
3122	0.0000E+00
3123	0.5606E-04
3091	-0.1136E-04
3092	0.0000E+00
3093	0.2662E-04

MODAL DISPLACEMENTS AT SECONDARY SYSTEM DOF

MODE	DX	DY	DZ	ROT-X	ROT-Y	ROT-Z
1	-0.2193E-07	-0.4926E-07	-0.2116E-08	-0.3228E-08	0.4639E-08	-0.1606E-07
2	-0.1077E-01	-0.4449E-01	-0.1061E-01	-0.1333E-03	0.4101E-02	-0.1696E-01
3	-0.4933E-01	-0.5022E+00	-0.1180E+00	0.5497E-02	0.1061E-01	-0.4329E-01
4	-0.5001E-01	-0.1808E+01	-0.4813E+00	0.1582E-01	0.1709E-01	-0.4641E-01
5	-0.5035E-01	-0.2343E+01	-0.7327E+00	0.2101E-01	0.2066E-01	-0.3169E-01
9001	-0.3617E-01	-0.2398E+01	-0.7615E+00	0.2172E-01	0.2183E-01	-0.2648E-01
9002	-0.3844E-02	-0.2431E+01	-0.7614E+00	0.2245E-01	0.2244E-01	-0.2115E-01
6	0.3057E-01	-0.2440E+01	-0.7298E+00	0.2335E-01	0.2321E-01	-0.1590E-01
7	0.6249E-01	-0.2440E+01	-0.6765E+00	0.2393E-01	0.2415E-01	-0.1276E-01
9003	-0.1285E+00	-0.2640E+01	0.2346E+00	0.2168E 01	0.3944E-01	0.1561E-01
9004	-0.5831E+00	-0.2439E+01	0.6867E+00	-0.2658E-05	0.5472E-01	0.2198E-02
9	0.9322E-01	-0.2436E+01	0.1550E+00	-0.2828E-01	0.7001E-01	-0.4306E-01
10	0.3976E+00	-0.2435E+01	-0.3989E-01	-0.3280E-01	0.7265E-01	-0.5116E-01
9005	0.2084E+01	-0.2430E+01	-0.1150E+01	-0.2952E-01	0.8564E-01	-0.4314E-01
9006	0.2484E+01	-0.2424E+01	-0.1479E+01	0.1372E-01	0.9862E-01	0.2496E-01
11	0.3109E+00	-0.2417E+01	-0.1152E+00	0.7442E-01	0.1116E+00	0.1141E+00
12	-0.1078E+01	-0.2414E+01	0.8017E+00	0.9632E-01	0.1161E+00	0.1444E+00
9007	-0.1359E+01	-0.2338E+01	0.9304E+00	0.1035E+00	0.1164E+00	0.1543E+00
9008	-0.1577E+01	-0.2117E+01	0.9167E+00	0.1097E+00	0.1163E+00	0.1631E+00
13	-0.1661E+01	-0.1802E+01	0.7543E+00	0.1151E+00	0.1168E+00	0.1699E+00
14	-0.1661E+01	-0.1326E+01	0.4313E+00	0.1226E+00	0.1176E+00	0.1729E+00
15	-0.1661E+01	-0.2808E+00	-0.2790E+00	0.1389E+00	0.1190E+00	0.1707E+00
16	-0.1660E+01	0.1959E+01	-0.1955E+01	0.1766E+00	0.1211E+00	0.1496E+00
17	-0.1527E+01	0.2143E+01	-0.2277E+01	0.1861E+00	0.1216E+00	0.1401E+00
18	-0.9305E+00	0.1854E+01	-0.2873E+01	0.2011E+00	0.1213E+00	0.1289E+00
19	-0.9617E-01	0.1225E+01	-0.3707E+01	0.2222E+00	0.1187E+00	0.1132E+00
20	0.1996E+01	-0.1611E+01	-0.5797E+01	0.2735E+00	0.1095E+00	0.7656E-01
21	0.2032E+01	-0.2165E+01	-0.5015E+01	0.2905E+00	0.1074E+00	0.6255E-01
9009	0.3308E+00	-0.2165E+01	0.5631E+01	0.2022E+00	0.1005E+00	0.2576E-01
9010	-0.2185E+00	-0.2162E+01	0.8860E+01	-0.6343E-01	0.9368E-01	0.3042E-02
22	-0.7173E-01	-0.2158E+01	0.1903E+01	-0.2411E+00	0.8683E-01	-0.7618E-02
23	-0.5347E-02	-0.2157E+01	-0.1822E+00	-0.2460E+00	0.8528E-01	-0.7787E-02
24	0.1153E+00	-0.2155E+01	-0.4066E+01	-0.2192E+00	0.8258E-01	-0.6703E-02
9011	0.2605E+00	-0.2149E+01	-0.8933E+01	-0.4912E-01	0.7687E-01	-0.1366E-02
9012	0.1968E+00	-0.2142E+01	-0.6899E+01	0.1619E+00	0.7117E-01	0.4863E-02
25	-0.2200E-01	-0.2134E+01	0.5211E+00	0.2487E+00	0.6547E-01	0.7218E-02
26	-0.8922E-01	-0.2132E+01	0.2851E+01	0.2378E+00	0.6184E-01	0.6816E-02
9013	-0.2605E+00	-0.2122E+01	0.9080E+01	0.8487E-01	0.5779E-01	0.2003E-02
9014	-0.2115E+00	-0.2111E+01	0.8228E+01	-0.1229E+00	0.5174E-01	-0.4499E-02
27	0.9620E-02	-0.2098E+01	0.2238E+01	-0.1698E+00	0.4569E-01	-0.6806E-02
28	0.9531E-01	-0.2093E+01	0.2790E+00	-0.1170E+00	0.4342E-01	-0.5929E-02
29	0.1891E+00	-0.2085E+01	-0.1041E+01	-0.2077E-01	0.4000E-01	-0.3215E-02
9015	0.1878E+00	-0.2069E+01	0.2076E+00	0.6523E-01	0.3362E-01	0.3146E-02
9016	-0.3634E-01	-0.2052E+01	0.2276E+01	0.2415E-01	0.2724E-01	0.7766E-02

30	-0.3379E+00	-0.2033E+01	0.9004E+00	-0.1078E+00	0.2086E-01	0.7717E-02
31	-0.3456E+00	-0.2033E+01	0.7906E+00	-0.1121E+00	0.2069E-01	0.7664E-02
32	-0.3433E+00	-0.1890E+01	0.4629E+00	-0.1344E+00	0.2018E-01	0.7469E-02
35	-0.2984E+00	-0.1503E+01	0.3067E+00	-0.1501E+00	0.1951E-01	0.7336E-02
37	-0.1393E+00	-0.2067E+00	0.3009E+00	-0.1436E+00	0.1825E-01	0.6816E-02
9017	0.3295E+00	0.2563E+01	0.3074E+00	-0.2881E-01	0.9455E-02	0.4815E-02
9018	0.4301E+00	0.1916E+01	0.3078E+00	0.6141E-01	-0.3403E-02	0.2815E-02
38	0.1425E+00	-0.6831E+00	0.3080E+00	0.8422E-01	-0.1310E-01	0.8138E-03
39	-0.2208E-02	-0.1513E+01	0.3081E+00	0.7365E-01	-0.1457E-01	0.1726E-03
9019	-0.4548E+00	-0.3040E+01	0.3080E+00	0.9960E-02	-0.8855E-02	-0.1933E-02
40	-0.4604E+00	-0.2191E+01	0.3077E+00	-0.5398E-01	0.9919E-02	-0.4038E-02
41	0.1161E+00	-0.2838E+00	0.3074E+00	-0.6522E-01	0.2905E-01	-0.5857E-02
43	0.2343E+00	-0.7369E-01	0.1823E+00	-0.5790E-01	0.3559E-01	-0.8071E-02
44	0.2343E+00	-0.8526E-01	0.1304E+00	-0.5625E-01	0.3637E-01	-0.8595E-02
45	0.2343E+00	-0.1212E+00	-0.1235E-01	-0.5186E-01	0.3826E-01	-0.9986E-02
9020	0.2341E+00	-0.4430E+00	-0.1161E+01	-0.1905E-01	0.3733E-01	-0.9084E-02
46	0.2338E+00	-0.4846E+00	-0.1954E+01	0.1376E-01	0.1597E-01	0.8635E-02
47	0.2336E+00	-0.4549E+00	-0.1997E+01	0.1721E-01	0.1306E-01	0.1129E-01
91	0.2003E+00	-0.4550E+00	-0.1944E+01	0.1814E-01	0.1201E-01	0.1085E-01
92	0.9404E-01	-0.4557E+00	-0.1729E+01	0.1680E-01	0.4650E-02	0.8314E-02
93	0.7082E-01	-0.4937E+00	-0.1678E+01	0.4578E-02	-0.2873E-03	0.7387E-02
94	0.6707E-01	-0.5006E+00	-0.1678E+01	-0.8921E-03	-0.2109E-02	0.6777E-02
95	0.6931E-01	-0.4742E+00	-0.1677E+01	-0.1058E-02	-0.5086E-02	0.5835E-02
96	0.1616E-01	-0.3946E+00	-0.1677E+01	-0.2195E-01	-0.8241E-02	0.4893E-02
97	0.1409E-01	-0.3891E+00	-0.1676E+01	-0.2255E-01	-0.8402E-02	0.4846E-02
98	-0.1313E-01	-0.2685E+00	-0.1528E+01	-0.4746E-01	-0.1466E-01	0.2760E-02
100	-0.2391E-02	-0.2687E+00	-0.1294E+01	-0.5411E-01	-0.1859E-01	0.1840E-02
101	0.2596E-02	-0.2689E+00	-0.1126E+01	-0.5677E-01	-0.2120E-01	0.1323E-02
102	0.6425E-02	-0.2691E+00	-0.9105E+00	-0.5[illegible]E-01	-0.2399E-01	0.5575E-03
113	-0.1287E+00	0.6880E-01	-0.1125E+01	-0.5527E-01	-0.2268E-01	0.1792E-03
114	-0.2260E+00	0.2979E+00	-0.1125E+01	-0.5170E-01	-0.2326E-01	-0.8860E-03
115	-0.3259E+00	0.5066E+00	-0.1126E+01	-0.4585E-01	-0.2326E-01	-0.1951E-02
116	-0.4699E+00	0.7586E+00	-0.1126E+01	-0.3372E-01	-0.2265E-01	-0.3519E-02
118	-0.5106E+00	0.8230E+00	-0.1182E+01	-0.1923E-01	-0.2171E-01	-0.4675E-02
9023	-0.2919E+00	0.6238E+00	-0.8511E+00	0.1771E-01	-0.1537E-01	-0.1048E-01
120	0.2927E-01	0.8241E+00	0.5693E+00	0.5176E-01	-0.9024E-02	-0.1002E-01
122	0.3159E-01	0.7130E+00	0.6828E+00	0.4813E-01	-0.8291E-02	-0.8829E-02
124	-0.2343E-02	0.5147E+00	0.6829E+00	0.4563E-01	-0.7410E-02	-0.7451E-02
125	-0.7723E-01	0.8421E-01	0.6829E+00	0.3699E-01	-0.6978E-02	-0.4156E-02
127	-0.9989E-01	0.4104E-03	0.6020E+00	0.3432E-01	-0.6438E-02	-0.2795E-02
129	-0.9521E-01	0.2421E-03	0.9583E-02	0.1044E-01	-0.5796E-02	0.2460E-02
9024	-0.3655E-01	0.1211E-03	-0.4385E-01	-0.1111E-02	-0.1898E-02	0.5375E-02
130	-0.1789E-08	0.2647E-08	-0.5937E-08	-0.7052E-09	-0.1078E-09	[illegible]
48	0.2337E+00	-0.4151E+00	-0.2035E+01	0.1742E-01	0.[illegible]	0.1460E-01
49	0.2336E+00	-0.3296E+00	-0.2082E+01	0.1777E-01	0.6354E-02	0.1470E-01
50	0.2335E+00	-0.2281E+00	-0.2099E+01	0.1812E-01	0.2082E-05	0.2084E-01
51	0.2335E+00	-0.1961E+00	-0.2097E+01	0.1822E-01	-0.2004E-02	0.2114E-01
52	0.2333E+00	-0.7872E-01	-0.2066E+01	0.1861E-01	-0.9629E-02	0.2047E-01
53	0.2326E+00	0.3295E+00	-0.1472E+01	0.2031E-01	-0.3661E-01	0.1187E-01
54	0.2314E+00	0.7904E+00	-0.4957E-01	0.2282E-01	-0.3111E-01	0.1458E-01
55	0.2314E+00	0.8011E+00	-0.2656E-01	0.2287E-01	-0.3028E-01	0.1476E-01
56	0.1466E+00	0.7745E+00	0.7065E-01	0.2263E-01	-0.1768E-01	0.1772E-01
57	0.1097E+00	0.7235E+00	0.7065E-01	0.2242E-01	-0.1469E-01	0.1880E-01
58	0.8361E-01	0.6786E+00	0.7064E-01	0.2204E-01	-0.1208E-01	0.1976E-01
59	0.5151E-01	0.6130E+00	0.7061E-01	0.2126E-01	-0.8741E-02	0.2119E-01
103	0.5339E-01	0.5318E+00	0.4401E-01	0.1912E-01	-0.3851E-02	0.2339E-01
104	0.5288E-01	0.2674E+00	0.6672E-01	0.1040E-01	0.5941E-02	0.3378E-01
105	0.5272E-01	0.1608E+00	0.8474E-01	0.7586E-02	0.5721E-02	0.3717E-01
106	0.5255E-01	0.4522E-01	0.1000E+00	0.4770E-02	0.4272E-02	0.3954E-01
107	0.5188E-01	-0.3958E+00	0.8826E-01	-0.6021E-02	-0.8042E-02	0.3286E-01
109	0.3665E-01	-0.4322E+00	0.7431E-01	-0.7766E-02	-0.1044E-01	0.2809E-01
111	0.6467E-02	-0.3999E+00	0.7431E-01	-0.1166E-01	-0.4955E-02	0.1976E-01
112	0.2872E-02	-0.3820E+00	0.7431E-01	-0.1371E-01	-0.7945E-03	0.1626E-01
60	0.3232E-01	0.5504E+00	0.7062E-01	0.2009E-01	-0.6223E-02	0.2260E-01
61	0.1751E-01	0.4918E+00	0.7061E-01	0.1852E-01	-0.4481E-02	0.2401E-01
62	0.1650E-01	0.4871E+00	0.7061E-01	0.1837E-01	-0.4171E-02	0.2412E-01
63	0.5883E-02	0.3305E+00	0.6169E-01	0.1222E-01	-0.1866E-02	0.2612E-01
64	0.6641E-02	0.3577E-01	0.5015E-01	0.1252E-02	-0.4592E-04	0.2543E-01
65	0.6986E-02	-0.8347E-01	0.5244E-01	-0.1736E-02	0.1040E-02	0.2325E-01
131	-0.6811E-01	-0.8349E-01	0.1990E-01	-0.3792E-02	0.1040E-02	0.2323E-01
132	-0.1440E+00	-0.8351E-01	-0.2763E-01	-0.3776E-02	0.1040E-02	0.2321E-01
66	0.7075E-02	-0.1949E+00	0.6060E-01	-0.7880E-02	0.1503E-02	0.2084E-01
67	0.7151E-02	-0.2788E+00	0.6903E-01	-0.1140E-01	0.1789E-02	0.1823E-01
68	0.7204E-02	-0.3306E+00	0.7432E-01	-0.1388E-01	0.1417E-02	0.1600E-01
69	0.7234E-02	-0.3752E+00	0.7842E-01	-0.1641E-01	0.9872E-03	0.1343E-01
70	0.7257E-02	-0.4034E+00	0.8039E-01	-0.1834E-01	0.4666E-03	0.1131E-01
71	0.7308E-02	-0.4474E+00	0.7835E-01	-0.2260E-01	-0.1296E-02	0.6045E-02
133	-0.1227E-01	-0.4474E+00	0.5699E-02	-0.2266E-01	-0.1296E-02	0.6046E-02
134	-0.3201E-01	-0.4479E+00	-0.6815E-01	-0.2269E-01	-0.1296E-02	0.6063E-02
72	0.7313E-02	-0.4642E+00	0.6740E-01	-0.2643E-01	-0.4003E-02	0.1044E-02
73	0.7338E-02	-0.3450E+00	-0.2556E+00	-0.4148E-01	-0.2886E-01	-0.7653E-02
74	0.7340E-02	-0.3258E+00	-0.3347E+00	-0.4539E-01	-0.3204E-01	-0.7209E-02
75	0.7345E-02	-0.2928E+00	-0.5070E+00	-0.4922E-01	-0.3375E-01	-0.5348E-02
76	0.7349E-02	-0.2723E+00	-0.6721E+00	-0.5306E-01	-0.2945E-01	-0.2055E-02
77	0.7351E-02	-0.2692E+00	-0.7432E+00	-0.5497E-01	-0.2515E-01	0.1749E-03
78	0.7403E-02	-0.2756E+00	-0.8124E+00	-0.5172E-01	-0.1945E-01	0.2788E-02
9021	0.7773E-02	-0.5383E+00	-0.8671E+00	-0.2849E-01	0.1280E-01	0.1257E-01
79	0.8139E-02	-0.9152E+00	-0.3010E+00	-0.5265E-02	0.2327E-01	0.1202E-01
80	0.8177E-02	-0.1036E+01	-0.6118E-01	0.3559E-02	0.1978E-01	0.1033E-01
81	0.8311E-02	-0.1064E+01	-0.9614E-02	0.5740E-02	0.1823E-01	0.9963E-02
82	-0.4242E-01	-0.1064E+01	0.4931E-01	0.1149E-01	0.2071E-01	0.8334E-02
9022	-0.1284E+00	-0.6229E+00	0.5004E-01	0.2082E-01	-0.2104E-02	0.5091E-02
83	-0.2728E-01	-0.1172E+00	0.5083E-01	0.1550E-01	-0.3660E-02	0.1848E-02
84	-0.1907E-01	-0.8235E-01	0.5089E-01	0.1414E-01	-0.3211E-02	0.1553E-02
85	-0.1390E-01	-0.5946E-01	0.5094E-01	0.1307E-01	-0.2829E-02	0.1342E-02
86	-0.4509E-03	0.1546E-03	0.1257E-01	0.5172E-02	-0.2293E-03	0.2351E-03
87	-0.1223E-07	-0.1461E-07	-0.2395E-07	0.3153E-08	0.1201E-10	0.1471E-10

COUPLED MODE SHAPES (FOR SECONDARY MODE) MODE 21
FREQUENCY (HZ.) = 17.95951

MODAL DISP AT PRIMARY SYSTEM CONNETING DOF

DOF #	DISPLACEMENT
3041	-0.9717E-05
3042	0.0000E+00
3043	-0.1977E-04
3061	-0.2367E-04
3063	-0.6643E-04
3072	0.0000E+00
3081	-0.3790E-04
3103	-0.2392E-03
3121	-0.7380E-04
3122	0.0000E+00
3123	-0.3120E-03
3091	-0.4373E-04
3092	0.0000E+00
3093	-0.1482E-03

MODAL DISPLACEMENTS AT SECONDARY SYSTEM DOF

NODE	DX	DY	DZ	ROT-X	ROT-Y	ROT-Z
1	0.2618E-07	0.3740E-07	-0.1034E-08	0.3346E-08	-0.2294E-08	0.1096E-07
2	0.5167E-02	0.3297E-01	0.4948E-02	0.1326E-02	-0.1710E-02	0.1131E-01
3	0.1851E-01	0.3461E+00	0.3637E-01	-0.3657E-04	-0.2085E-02	0.2804E-01
4	0.1934E-01	0.1145E+01	0.8306E-01	-0.3216E-02	-0.1691E-02	0.2561E-01
5	0.1975E-01	0.1406E+01	0.1079E+00	-0.4816E-02	-0.2150E-02	0.1207E-01
9001	0.1525E-01	0.1425E+01	0.1096E+00	-0.5042E-02	-0.2335E-02	0.7477E-02
9002	0.8550E-02	0.1432E+01	0.1058E+00	-0.5299E-02	-0.2492E-02	0.2852E-02
6	0.7791E-02	0.1433E+01	0.9690E-01	-0.5546E-02	-0.2655E-02	-0.1634E-02
7	0.1482E-01	0.1433E+01	0.8419E-01	-0.5710E-02	-0.2859E-02	-0.4266E-02
9003	0.6209E+00	0.1433E+01	-0.1294E+00	-0.4679E-02	-0.6204E-02	-0.1969E-01
9004	0.9595E+00	0.1432E+01	-0.2005E+00	0.1300E-02	-0.9549E-02	0.6764E-02
9	-0.7005E-01	0.1430E+01	-0.3912E-01	0.6832E-02	-0.1289E-01	0.4926E-01
10	-0.4062E+00	0.1429E+01	0.6377E-02	0.7390E-02	-0.1347E-01	0.5505E-01
9005	-0.2106E+01	0.1426E+01	0.2196E+00	0.4376E-02	-0.1631E-01	0.4197E-01
9006	-0.2561E+01	0.1422E+01	0.1931E+00	-0.7188E-02	-0.1916Z-01	-0.1726E-01
11	-0.1034E+01	0.1417E+01	-0.2745E+00	-0.2317E-01	-0.2200E-01	-0.7586E-01
12	-0.1414E+00	0.1415E+01	-0.5563E+00	-0.2945E-01	-0.2297E-01	-0.6911E-01
9007	0.2956E-01	0.1369E+01	-0.6019E+00	-0.3164E-01	-0.2300E-01	-0.9247E-01
9008	0.1590E+00	0.1239E+01	-0.6150E+00	-0.3358E-01	-0.2286E-01	-0.9482E-01
13	0.2073E+00	0.1058E+01	-0.5893E+00	-0.3529E-01	-0.2285E-01	-0.9568E-01
14	0.2074E+00	0.7927E+00	-0.5261E+00	-0.3762E-01	-0.2290E-01	-0.9487E-01
15	0.2076E+00	0.2371E+00	-0.3889E+00	-0.4272E-01	-0.2267E-01	-0.8709E-01
16	0.2080E+00	-0.8007E+00	-0.8863E-01	-0.5457E-01	-0.1952E-01	-0.6331E-01
17	0.1881E+00	-0.8964E+00	-0.3938E-01	-0.5786E-01	-0.1741E-01	-0.5602E-01
18	0.1094E+00	-0.8562E+00	0.3966E-01	-0.6051E-01	-0.1492E-01	-0.4704E-01
19	0.1659E-01	-0.7197E+00	0.3329E+00	-0.6135E-01	-0.1212E-01	-0.3724E-01
20	-0.1671E+00	-0.2752E+00	0.3177E+00	-0.4445E-01	-0.9134E-02	-0.3043E-01
21	-0.6417E-01	-0.2540E+00	0.2044E+00	-0.3217E-01	-0.1003E-01	-0.3591E-01
9009	0.1339E+01	-0.2519E+00	-0.2570E+00	0.5425E-02	-0.1325E-01	-0.2407E-01
9010	0.1468E+01	-0.2495E+00	0.2850E+00	0.1593E-01	-0.1646E-01	0.1796E-01
22	0.2830E+00	-0.2469E+00	0.6713E+00	-0.8675E-04	-0.1568E-01	0.3083E-01
23	0.3940E-01	-0.2464E+00	0.6467E+00	-0.5735E-02	-0.2036E-01	0.2567E-01
24	-0.2772E+00	-0.2452E+00	0.4700E+00	-0.1526E-01	-0.2167E-01	0.1317E-01
9011	-0.3485E+00	-0.2427E+00	-0.1983E+00	-0.2113E-01	-0.2435E-01	-0.7485E-02
9012	0.8753E-01	-0.2401E+00	-0.7378E+00	-0.8392E-02	-0.2703E-01	-0.1574E-01
25	0.5329E+00	-0.2373E+00	-0.6804E+00	0.1152E-01	-0.2970E-01	-0.8420E-02
26	0.5926E+00	-0.2365E+00	-0.5468E+00	0.1642E-01	-0.3047E-01	-0.4020E-02
9013	0.4514E+00	-0.2333E+00	0.1852E+00	0.2071E-01	-0.3331E-01	0.1130E-01
9014	-0.8469E-01	-0.2300E+00	0.6720E+00	0.3527E-02	-0.3615E-01	0.1600E-01
27	-0.4971E+00	-0.2265E+00	0.3310E+00	-0.2264E-01	-0.3899E-01	0.4742E-03
28	-0.5126E+00	-0.2253E+00	-0.3085E-01	-0.3176E-01	-0.4005E-01	-0.2557E-02
29	-0.3564E+00	-0.2232E+00	-0.7447E+00	-0.3656E-01	-0.4166E-01	-0.1245E-01
9015	0.2700E+00	-0.2192E+00	-0.1763E+01	-0.1151E-01	-0.4465E-01	-0.1753E-01
9016	0.7561E+00	-0.2150E+00	-0.1514E+01	0.2088E-01	-0.4764E-01	-0.6532E-02
30	0.7754E+00	-0.2106E+00	-0.7985E+00	0.4624E-02	-0.5064E-01	0.3020E-02
31	0.7723E+00	-0.2105E+00	-0.7941E+00	0.3154E-02	-0.5072E-01	0.3073E-02
32	0.7079E+00	-0.2075E+00	-0.7959E+00	-0.5115E-02	-0.5094E-01	0.3174E-02
35	0.5689E+00	-0.1820E+00	-0.8046E+00	-0.1250E-01	-0.5098E-01	0.3067E-02
37	0.1412E+00	-0.4423E-01	-0.8042E+00	-0.1717E-01	-0.4953E-01	0.2660E-02
9017	-0.1193E+01	0.4153E+00	-0.8016E+00	-0.9368E-02	-0.2711E-01	0.1099E-02
9018	-0.1429E+01	0.4982E+00	-0.7987E+00	0.4420E-02	0.1330E-01	-0.4617E-03
38	-0.4545E+00	0.1733E+00	-0.7953E+00	0.1401E-01	0.4208E-01	-0.2022E-02
39	0.2369E-02	0.2175E-01	-0.7941E+00	0.1489E-01	0.4514E-01	-0.2523E-02
9019	0.1354E+01	-0.4187E+00	-0.7895E+00	0.8456E-02	0.2514E-01	-0.4165E-02
40	0.1461E+01	-0.4537E+00	-0.7844E+00	-0.7035E-02	-0.2183E-01	-0.5807E-02
41	0.2208E+00	-0.5265E-01	-0.7796E+00	-0.1924E-01	-0.5927E-01	-0.7226E-02
43	-0.1529E-01	-0.3289E-02	-0.5348E+00	-0.2202E-01	-0.6599E-01	-0.7360E-02
44	-0.1531E-01	-0.1392E-01	-0.4385E+00	-0.2257E-01	-0.6589E-01	-0.7458E-02
45	-0.1538E-01	-0.4294E-01	-0.1875E+00	-0.2404E-01	-0.6344E-01	-0.7672E-02
9020	-0.1590E-01	-0.2478E+00	0.1161E+01	-0.3500E-01	-0.3000E-01	-0.5547E-02
46	-0.1641E-01	-0.3172E+00	0.1549E+01	-0.4596E-01	0.7493E-03	0.1164E-02
47	-0.1646E-01	-0.3124E+00	0.1543E+01	-0.4711E-01	0.3241E-02	0.2012E-02
91	-0.2088E-01	-0.3122E+00	0.1397E+01	-0.5196E-01	0.5475E-02	0.1984E-03
92	0.4306E-01	-0.3110E+00	0.6495E+00	-0.7696E-01	0.2155E-01	-0.1070E-01
93	0.2010E+00	0.8671E-02	0.3400E+00	-0.8696E-01	0.3202E-01	-0.1853E-01
94	0.3102E+00	0.2939E+00	0.3396E+00	-0.8756E-01	0.3507E-01	-0.2143E-01
95	0.4969E+00	0.7316E+00	0.3391E+00	-0.8567E-01	0.3919E-01	-0.2592E-01
96	0.7025E+00	0.1151E+01	0.3384E+00	-0.8075E-01	0.4286E-01	-0.3040E-01
97	0.7132E+00	0.1171E+01	0.3384E+00	-0.8043E-01	0.4304E-01	-0.3062E-01
98	0.7561E+00	0.1454E+01	0.6036E+00	-0.6636E-01	0.4879E-01	-0.3636E-01
100	0.5853E+00	0.1454E+01	0.8912E+00	-0.6319E-01	0.5283E-01	-0.3953E-01
101	0.4633E+00	0.1454E+01	0.1078E+01	-0.6290E-01	0.5553E-01	-0.4175E-01
102	0.2995E+00	0.1453E+01	0.1264E+01	-0.3974E-01	0.5623E-01	-0.4513E-01
113	0.8188E+00	0.2123E+01	0.1079E+01	-0.1721E+00	0.6371E-01	-0.3399E-01
114	0.1100E+01	0.3001E+01	0.1080E+01	-0.2247E+00	0.6711E-01	-0.2678E-01
115	0.1367E+01	0.4005E+01	0.1081E+01	-0.2311E+00	0.6760E-01	-0.1956E-01

116	0.1806E+01	0.5340E+01	0.1082E+01	-0.1720E+00	0.6550E-01	-0.8940E-02
118	0.1959E+01	0.5642E+01	0.8574E+00	-0.5573E-01	0.6148E-01	-0.1436E-02
9023	0.1425E+01	0.5662E+01	0.5282E+01	0.2857E+00	0.3601E-01	0.3853E-01
120	0.6406E-01	0.5678E+01	0.1385E+02	0.2734E+00	0.1053E-01	0.4600E-01
122	-0.1601E-01	0.5103E+01	0.1444E+02	0.2538E+00	0.7704E-02	0.4124E-01
124	0.1249E-01	0.4028E+01	0.1444E+02	0.2630E+00	0.6261E-02	0.3562E-01
125	0.6854E-01	0.9083E+00	0.1444E+02	0.3775E+00	0.5005E-02	0.2217E-01
127	0.1214E+00	-0.2488E-01	0.1343E+02	0.4649E+00	0.4210E-02	0.1676E-01
129	0.2608E+00	-0.1468E-01	0.5434E+00	0.3080E+00	0.2482E-02	-0.4360E-02
9024	0.1113E+00	-0.7341E-02	-0.1164E+01	-0.5185E-01	0.1241E-02	-0.9377E-02
130	0.6002E-08	-0.1605E-06	-0.1669E-06	-0.1926E-07	0.7048E-10	-0.1248E-08
48	-0.1658E-01	-0.3006E+00	0.1535E+01	-0.3504E-01	0.2730E-02	0.7136E-02
49	-0.1679E-01	-0.2410E+00	0.1522E+01	-0.1492E-01	0.3753E-02	0.1832E-01
50	-0.1700E-01	-0.1173E+00	0.1498E+01	0.5195E-02	0.6304E-02	0.3268E-01
51	-0.1706E-01	-0.6534E-01	0.1488E+01	0.1123E-01	0.7213E-02	0.3759E-01
52	-0.1728E-01	0.1926E+00	0.1439E+01	0.3334E-01	0.1101E-01	0.5789E-01
53	-0.1827E-01	0.2561E+01	0.9687E+00	0.1309E+00	0.2685E-01	0.1271E+00
54	-0.1970E-01	0.7845E+01	-0.1206E+00	0.2748E+00	0.2749E-01	0.1586E+00
55	-0.1973E-01	0.7964E+01	-0.1416E+00	0.2778E+00	0.2705E-01	0.1587E+00
56	0.5850E-01	0.7455E+01	-0.2326E+00	0.3035E+00	0.1658E-01	0.1609E+00
57	0.9272E-01	0.6764E+01	-0.2329E+00	0.3066E+00	0.1428E-01	0.1632E+00
58	0.1197E+00	0.6141E+01	-0.2332E+00	0.3122E+00	0.1224E-01	0.1653E+00
59	0.1521E+00	0.5196E+01	-0.2336E+00	0.3154E+00	0.8761E-02	0.1684E+00
103	0.1521E+00	0.4620E+01	-0.3174E+00	0.3103E+00	-0.4768E-02	0.1285E+00
104	0.1522E+00	0.3662E+01	-0.4059E+00	0.2894E+00	-0.2666E-01	0.1185E+00
105	0.1522E+00	0.3348E+01	-0.4818E+00	0.2826E+00	-0.2294E-01	0.1611E+00
106	0.1522E+00	0.2695E+01	-0.5416E+00	0.2759E+00	-0.1633E-01	0.2050E+00
107	0.1522E+00	0.7192E-01	-0.6295E+00	0.2500E+00	-0.1358E-02	0.2008E+00
109	0.1513E+00	-0.5833E+00	-0.6308E+00	0.2458E+00	-0.3483E-03	0.1597E+00
111	0.1523E+00	-0.1371E+01	-0.6308E+00	0.2160E+00	0.1061E-02	0.8712E-01
112	0.1543E+00	-0.1664E+01	-0.6308E+00	0.1961E+00	0.1804E-02	0.5665E-01
60	0.1735E+00	0.4244E+01	-0.2339E+00	0.3160E+00	0.5003E-02	0.1725E+00
61	0.1829E+00	0.3295E+01	-0.2343E+00	0.3135E+00	0.7683E-03	0.1766E+00
62	0.1831E+00	0.3216E+01	-0.2343E+00	0.3131E+00	0.3945E-03	0.1769E+00
63	0.1622E+00	0.1385E+01	-0.2728E+00	0.2935E+00	-0.1492E-01	0.1795E+00
64	0.1627E+00	-0.5112E+00	-0.4780E+00	0.2546E+00	-0.1807E-01	0.1553E+00
65	0.1629E+00	-0.1236E+01	-0.5615E+00	0.2369E+00	-0.1345E-01	0.1301E+00
131	-0.2585E+00	-0.1236E+01	0.2085E+00	0.2374E+00	-0.1345E-01	0.1302E+00
132	-0.6839E+00	-0.1237E+01	0.9834E+00	0.2380E+00	-0.1345E-01	0.1306E+00
66	0.1622E+00	-0.1818E+01	-0.6125E+00	0.2195E+00	-0.7050E-02	0.1012E+00
67	0.1616E+00	-0.2194E+01	-0.6311E+00	0.2047E+00	-0.1761E-02	0.7448E-01
68	0.1611E+00	-0.2389E+01	-0.6307E+00	0.1942E+00	0.1870E-02	0.5440E-01
69	0.1607E+00	-0.2522E+01	-0.6196E+00	0.1829E+00	0.5410E-02	0.3283E-01
70	0.1604E+00	-0.2578E+01	-0.6044E+00	0.1745E+00	0.7973E-02	0.1596E-01
71	0.1597E+00	-0.2562E+01	-0.5505E+00	0.1556E+00	0.1336E-01	-0.2357E-01
133	0.2344E+00	-0.2563E+01	-0.4312E-01	0.1561E+00	0.1336E-01	-0.2340E-01
134	0.3114E+00	-0.2564E+01	0.4659E+00	0.1564E+00	0.1336E-01	-0.2359E-01
72	0.1598E+00	-0.2334E+01	-0.4706E+00	0.1335E+00	0.1921E-01	-0.6293E-01
73	0.1606E+00	0.8586E-01	0.3657E+00	0.3499E-01	0.6048E-01	-0.1186E+00
74	0.1607E+00	0.3793E+00	0.5272E+00	0.2393E-01	0.6535E-01	-0.1125E+00
75	0.1609E+00	0.9059E+00	0.8728E+00	0.1776E-02	0.6826E-01	-0.9305E-01
76	0.1610E+00	0.1310E+01	0.1210E+01	-0.2037E-01	0.6249E-01	-0.6413E-01
77	0.1611E+00	0.1452E+01	0.1363E+01	-0.3146E-01	0.5652E-01	-0.4633E-01
78	0.1610E+00	0.1582E+01	0.1568E+01	-0.2527E-01	0.4595E-01	-0.1955E-01
9021	0.1606E+00	-0.4072E-01	0.1918E+01	0.1878E-01	-0.1725E-01	0.1151E+00
79	0.1600E+00	-0.4077E+01	0.9397E+00	0.6283E-01	-0.4160E-01	0.1492E+00
80	0.1598E+00	-0.5656E+01	0.5058E+00	0.7957E-01	-0.3597E-01	0.1394E+00
81	0.1598E+00	-0.6026E+01	0.4119E+00	0.8370E-01	-0.3312E-01	0.1358E+00
82	0.2505E+00	-0.6173E+01	0.3054E+00	0.9633E-01	-0.1874E-01	0.1217E+00
9022	0.3555E+00	-0.3405E+01	0.3037E+00	0.1148E+00	0.7111E-02	0.7391E-01
83	0.5931E-01	-0.6755E+00	0.3018E+00	0.8650E-01	0.1188E-01	0.2613E-01
84	0.3205E-01	-0.4794E+00	0.3016E+00	0.8065E-01	0.1117E-01	0.2178E-01
85	0.1368E-01	-0.3479E+00	0.3015E+00	0.7612E-01	0.1054E-01	0.1867E-01
86	-0.4304E-02	0.3842E-02	0.1020E+00	0.3794E-01	0.4440E-02	0.3354E-02
87	0.2377E-07	-0.7181E-07	0.6393E-07	0.2932E-07	-0.2183E-08	0.8747E-10

COUPLED MODE SHAPES (FOR SECONDARY MODE) MODE 22
FREQUENCY (HZ.) = 18.25603

MODAL DISP AT PRIMARY SYSTEM CONNETING DOF

DOF #	DISPLACEMENT
3041	0.5530E-05
3042	0.0000E+00
3043	-0.2378E-04
3061	0.9511E-05
3063	-0.7991E-04
3072	0.0000E+00
3081	0.1036E-04
3103	-0.2877E-03
3121	0.6503E-05
3122	0.0000E+00
3123	-0.3754E-03
3091	0.9923E-05
3092	0.0000E+00
3093	-0.1782E-03

MODAL DISPLACEMENTS AT SECONDARY SYSTEM DOF

MODE	DX	DY	DZ	ROT-X	ROT-Y	ROT-Z
1	-0.1061E-06	-0.1461E-06	0.1916E-08	-0.1308E-07	0.9835E-08	-0.4235E-07
2	-0.2218E-01	-0.1277E+00	-0.2131E-01	-0.5263E-02	0.7422E-02	-0.4363E-01
3	-0.8087E-01	-0.1335E+01	-0.1617E+00	-0.7117E-04	0.9604E-02	-0.1078E+00
4	-0.8423E-01	-0.4385E+01	-0.3782E+00	0.1231E-01	0.7358E-02	-0.9653E-01
5	-0.8590E-01	-0.5353E+01	-0.4790E+00	0.1853E-01	0.8118E-02	-0.4292E-01
9001	-0.7051E-01	-0.5418E+01	-0.4849E+00	0.1944E-01	0.8519E-02	-0.2484E-01
9002	-0.5046E-01	-0.5440E+01	-0.4693E+00	0.2041E-01	0.8643E-02	-0.6641E-02

6	-0.5606E-01	-0.5441E+01	-0.4944E+00	0.2149E-01	0.9224E-02	0.1097E-01
7	-0.9395E-01	-0.5441E+01	-0.3851E+00	0.2214E-01	0.9742E-02	0.2129E-01
9003	-0.2599E+01	-0.5441E+01	0.4512E+00	0.1865E-01	0.1822E-01	0.7866E-01
9004	-0.3886E+01	-0.5438E+01	0.7538E+00	-0.4242E-02	0.2669E-01	-0.2974E-01
9	0.2661E+00	-0.5430E+01	0.1504E+00	-0.2619E-01	0.3517E-01	-0.1943E+00
10	0.1587E+01	-0.5428E+01	-0.2457E-01	-0.2852E-01	0.3664E-01	-0.2158E+00
9005	0.4173E+01	-0.5415E+01	-0.4639E+00	-0.1801E-01	0.4384E-01	-0.1600E+00
9006	0.9803E+01	-0.5398E+01	-0.8241E+00	0.2460E-01	0.5104E-01	0.7173E-1
11	0.3793E+01	-0.5379E+01	0.8224E+00	0.8183E-01	0.5828E-01	0.2934E+00
12	0.3611E+00	-0.5372E+01	0.1816E+01	0.1036E+00	0.6071E-01	0.3407E+00
9007	-0.2913E+00	-0.5195E+01	0.1986E+01	0.1111E+00	0.6063E-01	0.3522E+00
9008	-0.7834E+00	-0.4700E+01	0.2060E+01	0.1177E+00	0.5996E-01	0.3596E+00
13	-0.9663E+00	-0.4017E+01	0.2008E+01	0.1236E+00	0.5977E-01	0.3612E+00
14	-0.9667E+00	-0.3017E+01	0.1843E+01	0.1315E+00	0.5982E-01	0.3566E+00
15	-0.9675E+00	-0.9394E+00	0.1485E+01	0.1489E+00	0.5887E-01	0.3230E+00
16	-0.9691E+00	0.2824E+01	0.7205E+00	0.1892E+00	0.4776E-01	0.2232E+00
17	-0.9222E+00	0.3159E+01	0.6027E+00	0.2009E+00	0.4042E-01	0.1938E+00
18	-0.7470E+00	0.2996E+01	0.4262E+00	0.2081E+00	0.3197E-01	0.1541E+00
19	-0.5600E+00	0.2454E+01	0.2376E+00	0.2064E+00	0.2302E-01	0.1112E+00
20	-0.2614E+00	0.7184E+00	-0.6532E-01	0.1265E+00	0.1312E-01	0.7326E-01
21	-0.5468E+00	0.6410E+00	0.2517E+00	0.7472E-01	0.1598E-01	0.9223E-01
9009	-0.4227E+01	0.6328E+00	0.8278E-01	-0.5905E-01	0.2005E-01	0.6045E-01
9010	-0.4238E+01	0.6240E+00	-0.2613E+01	-0.5072E-01	0.2412E-01	-0.5911E-01
22	-0.7663E+00	0.6147E+00	-0.2841E+01	0.4445E-01	0.2820E-01	-0.8153E-01
23	-0.1476E+00	0.6127E+00	-0.2366E+01	0.6675E-01	0.2906E-01	-0.6146E-01
24	0.4921E+00	0.6086E+00	-0.9901E+00	0.9725E-01	0.3072E-01	-0.1864E-01
9011	0.9848E-01	0.6000E+00	0.2358E+01	0.8495E-01	0.3431E-01	0.3349E-01
9012	-0.1183E+01	0.5909E+00	0.3850E+01	-0.3668E-02	0.3751E-01	0.3411E-01
25	-0.1767E+01	0.5816E+00	0.2135E+01	-0.9029E-01	0.4090E-01	-0.3087E-02
26	-0.1672E+01	0.5789E+00	0.1202E+01	-0.1043E+00	0.4186E-01	-0.1670E-01
9013	-0.4185E+00	0.5684E+00	-0.2501E+01	-0.8425E-01	0.4546E-01	-0.4740E-01
9014	0.1167E+01	0.5576E+00	-0.3826E+01	0.1097E-01	0.4906E-01	-0.3337E-01
27	0.1557E+01	0.5464E+00	-0.1464E+01	0.1040E+00	0.5266E-01	0.1411E-01
28	0.1237E+01	0.5422E+00	0.1371E-01	0.1160E+00	0.5401E-01	0.3370E-01
29	0.3385E+00	0.5355E+00	0.2264E+01	0.1039E+00	0.5604E-01	0.5297E-01
9015	-0.1591E+01	0.5227E+00	0.4619E+01	0.8585E-02	0.5963E-01	0.3851E-01
9016	-0.2038E+01	0.5096E+00	0.3029E+01	-0.7826E-01	0.6363E-01	-0.1674E-01
30	-0.6256E+00	0.4960E+00	0.5290E+00	-0.2169E-01	0.6742E-01	-0.4872E-01
31	-0.5766E+00	0.4957E+00	0.5088E+00	-0.1746E-01	0.6752E-01	-0.4876E-01
32	-0.3726E+00	0.4964E+00	0.4919E+00	0.5953E-02	0.6772E-01	-0.4849E-01
33	-0.1397E+00	0.4469E+00	0.5073E+00	0.2603E-01	0.6741E-01	-0.4781E-01
34	0.4214E+00	0.1465E+00	0.5063E+00	0.3591E-01	0.6455E-01	-0.4583E-01
9017	0.2009E+01	-0.5897E+00	0.5019E+00	0.9083E-02	0.2667E-01	-0.3820E-01
9018	0.1977E+01	-0.4836E+00	0.4972E+00	-0.1376E-01	-0.2748E-01	-0.3057E-01
38	0.5420E+00	0.1288E+00	0.4922E+00	-0.2025E-01	-0.5203E-01	-0.2295E-01
39	0.1326E-01	0.3288E+00	0.4906E+00	-0.1780E-01	-0.4839E-01	-0.2050E-01
9019	-0.1154E+01	0.6932E+00	0.4847E+00	-0.2116E-02	-0.1690E-01	-0.1248E-01
40	-0.1102E+01	0.4814E+00	0.4785E+00	0.1281E-01	0.1778E-01	-0.4457E-02
41	-0.9579E+00	0.5717E-01	0.4729E+00	0.1311E-01	0.2757E-01	0.2477E-02
43	-0.2575E+00	0.2608E-01	0.3772E+00	0.1000E-01	0.2112E-01	0.4741E-02
44	-0.2574E+00	0.3307E-01	0.3467E+00	0.9358E-02	0.1910E-01	0.5129E-02
45	-0.2573E+00	0.5480E-01	0.2838E+00	0.7654E-02	0.1125E-01	0.6080E-02
9020	-0.2562E+00	0.2533E+00	0.7239E+00	-0.5103E-02	-0.3174E-01	0.5435E-02
46	-0.2550E+00	0.2582E+00	0.1607E+01	-0.1786E-01	-0.2184E-01	-0.6784E-02
47	-0.2548E+00	0.2352E+00	0.1668E+01	-0.1920E-01	-0.1814E-01	-0.8613E-02
91	-0.2285E+00	0.2353E+00	0.1608E+01	-0.2089E-01	-0.1599E-01	-0.9061E-02
92	-0.1134E+00	0.2362E+00	0.1325E+01	-0.2700E-01	-0.5459E-03	-0.1080E-01
93	-0.5137E-01	0.3348E+00	0.1223E+01	-0.2392E-01	0.8900E-02	-0.1173E-01
94	-0.1720E-01	0.4097E+00	0.1223E+01	-0.2136E-01	0.1195E-01	-0.1156E-01
95	0.5385E-01	0.5048E+00	0.1223E+01	-0.1540E-01	0.1622E-01	-0.1128E-01
96	0.1451E+00	0.5646E+00	0.1222E+01	-0.7543E-02	0.1997E-01	-0.1101E-01
97	0.1501E+00	0.5665E+00	0.1222E+01	-0.7100E-02	0.2015E-01	-0.1100E-01
98	0.1964E+00	0.5666E+00	0.1201E+01	0.1164E-01	0.2621E-01	-0.1022E-01
100	0.1502E+00	0.5668E+00	0.1133E+01	0.1657E-01	0.2988E-01	-0.1053E-01
101	0.1182E+00	0.5670E+00	0.1079E+01	0.1805E-01	0.3232E-01	-0.1094E-01
102	0.7535E-01	0.5667E+00	0.9935E+00	0.2499E-01	0.3404E-01	-0.1187E-01
113	0.3235E+00	0.5469E+00	0.1080E+01	-0.1570E-01	0.3652E-01	-0.8115E-02
114	0.4840E+00	0.6618E+00	0.1080E+01	-0.3388E-01	0.3838E-01	-0.5487E-02
115	0.6487E+00	0.8275E+00	0.1080E+01	-0.4004E-01	0.3881E-01	-0.2860E-02
116	0.8900E+00	0.1062E+01	0.1081E+01	-0.2874E-01	0.3797E-01	0.1006E-02
118	0.9678E+00	0.1107E+01	0.1053E+01	-0.2042E-02	0.3616E-01	0.3814E-02
9023	0.6357E+00	0.1113E+01	0.2256E+01	0.6348E-01	0.2417E-01	0.1951E-01
120	-0.1705E-01	0.1118E+01	0.3897E+01	0.4575E-01	0.1218E-01	0.2144E-01
122	-0.3792E-01	0.1025E+01	0.3993E+01	0.4150E-01	0.1084E-01	0.1910E-01
124	0.5973E-02	0.8459E+00	0.3993E+01	0.4583E-01	0.1010E-01	0.1637E-01
125	0.1028E+00	0.2163E+00	0.3992E+01	0.8672E-01	0.9029E-02	0.9836E-02
127	0.1408E+00	-0.8442E-02	0.3742E+01	0.1245E+00	0.8255E-02	0.7159E-02
129	0.1770E+00	-0.4980E-02	0.1638E+00	0.8859E-01	0.4867E-02	-0.3734E-02
9024	0.7193E-01	-0.2490E-02	-0.3311E+00	-0.1462E-01	0.2433E-02	-0.6177E-02
130	0.3612E-08	-0.5446E-07	-0.4781E-07	-0.5503E-08	0.1382E-09	-0.7903E-09
48	-0.2547E+00	0.2074E+00	0.1722E+01	-0.1566E-01	-0.1691E-01	-0.9091E-02
49	-0.2546E+00	0.1616E+00	0.1799E+01	-0.9762E-02	-0.1267E-01	-0.8096E-02
50	-0.2544E+00	0.1265E+00	0.1849E+01	-0.3862E-02	-0.6676E-02	-0.4772E-02
51	-0.2543E+00	0.1198E+00	0.1857E+01	-0.2092E-02	-0.4726E-02	-0.3303E-02
52	-0.2541E+00	0.1180E+00	0.1863E+01	0.4393E-02	0.2895E-02	0.3944E-02
53	-0.2530E+00	0.5965E+00	0.1409E+01	0.3301E-01	0.3252E-01	0.3162E-01
54	-0.2512E+00	0.1992E+01	-0.4460E-02	0.7519E-01	0.3524E-01	0.4115E-01
55	-0.2512E+00	0.2023E+01	-0.3082E-01	0.7607E-01	0.3460E-01	0.4103E-01
56	-0.1470E+00	0.1870E+01	-0.1472E+00	0.8409E-01	0.2260E-01	0.3946E-01
57	-0.9905E-01	0.1679E+01	-0.1473E+00	0.8579E-01	0.1939E-01	0.3938E-01
58	-0.6359E-01	0.1505E+01	-0.1474E+00	0.8709E-01	0.1646E-01	0.3930E-01
59	-0.2095E-01	0.1241E+01	-0.1475E+00	0.8859E-01	0.1239E-01	0.3918E-01
103	-0.2081E-01	0.1114E+01	-0.1129E+00	0.8837E-01	0.2880E-02	0.2436E-01
104	-0.2027E-01	0.9997E+00	-0.1930E+00	0.8749E-01	-0.1414E-01	0.1347E-01
105	-0.2009E-01	0.9437E+00	-0.2341E+00	0.8720E-01	-0.1249E-01	0.2514E-01
106	-0.1991E-01	0.8479E+00	-0.2863E+00	0.8692E-01	-0.6788E-02	0.3803E-01
107	-0.1921E-01	0.3107E+00	-0.2675E+00	0.8582E-01	0.9249E-02	0.4191E-01
109	-0.1774E-02	0.1233E+00	-0.2515E+00	0.8559E-01	0.1197E-01	0.3167E-01
111	0.3366E-01	-0.1559E+00	-0.2515E+00	0.7842E-01	0.6437E-02	0.1406E-01
112	0.3927E-01	-0.2637E+00	-0.2515E+00	0.7322E-01	0.5267E-03	0.6582E-02
60	0.1023E-01	0.9725E+00	-0.1476E+00	0.8948E-01	0.8908E-02	0.3940E-01

61	0.3158E-01	0.7027E+00	-0.1477E+00	0.8958E-01	0.5904E-02	0.3962E-01
62	0.3307E-01	0.6802E+00	-0.1477E+00	0.8966E-01	0.5675E-02	0.3964E-01
63	0.4135E-01	0.1967E+00	-0.1473E+00	0.8736E-01	-0.2055E-02	0.3881E-01
64	0.4088E-01	-0.2015E+00	-0.1936E+00	0.8217E-01	-0.5018E-02	0.3133E-01
65	0.4066E-01	-0.3442E+00	-0.2188E+00	0.7980E-01	-0.4492E-02	0.2475E-01
131	-0.3960E-01	-0.3443E+00	0.4083E-01	0.8000E-01	-0.4492E-02	0.2478E-01
132	-0.1205E+00	-0.3444E+00	0.3019E+00	0.8019E-01	-0.4492E-02	0.2486E-01
66	0.4031E-01	-0.4498E+00	-0.2385E+00	0.7691E-01	-0.3106E-02	0.1730E-01
67	0.4002E-01	-0.5096E+00	-0.2488E+00	0.7445E-01	-0.1491E-02	0.1075E-01
68	0.3981E-01	-0.5349E+00	-0.2515E+00	0.7271E-01	-0.1155E-03	0.6028E-02
69	0.3962E-01	-0.5458E+00	-0.2502E+00	0.7074E-01	0.1196E-02	0.1091E-02
70	0.3948E-01	-0.5441E+00	-0.2464E+00	0.6926E-01	0.2296E-02	-0.2688E-02
71	0.3917E-01	-0.5095E+00	-0.2285E+00	0.6597E-01	0.5091E-02	-0.1129E-01
133	0.7529E-01	-0.5096E+00	-0.1351E-01	0.6618E-01	0.5091E-02	-0.1125E-01
134	0.1122E+00	-0.5097E+00	0.2023E+00	0.6631E-01	0.5091E-02	-0.1132E-01
72	0.3914E-01	-0.4287E+00	-0.1955E+00	0.6134E-01	0.8687E-02	-0.1985E-01
73	0.3901E-01	0.2216E+00	0.2788E+00	0.4075E-01	0.3786E-01	-0.3016E-01
74	0.3899E-01	0.2959E+00	0.3811E+00	0.3844E-01	0.4148E-01	-0.2846E-01
75	0.3895E-01	0.4284E+00	0.6024E+00	0.3381E-01	0.4361E-01	-0.2340E-01
76	0.3891E-01	0.5300E+00	0.8174E+00	0.2918E-01	0.3925E-01	-0.1639E-01
77	0.3889E-01	0.5666E+00	0.9127E+00	0.2687E-01	0.3476E-01	-0.1223E-01
78	0.3884E-01	0.6033E+00	0.1038E+01	0.2659E-01	0.2777E-01	-0.6261E-02
9021	0.3844E-01	0.2768E+00	0.1198E+01	0.2664E-01	-0.1363E-01	0.2562E-01
79	0.3803E-01	-0.6620E+00	0.4997E+00	0.2263E-01	-0.2883E-01	0.3575E-01
80	0.3787E-01	-0.1044E+01	0.1997E+00	0.2193E-01	-0.2486E-01	0.3391E-01
81	0.3783E-01	-0.1134E+01	0.1348E+00	0.2175E-01	-0.2293E-01	0.3312E-01
82	0.1014E+00	-0.1172E+01	0.6072E-01	0.2176E-01	-0.1334E-01	0.3002E-01
9022	0.1970E+00	-0.6217E+00	0.5863E-01	0.2107E-01	0.3525E-02	0.1817E-01
83	0.3796E-01	-0.1289E+00	0.5852E-01	0.1598E-01	0.6132E-02	0.6310E-02
84	0.2402E-01	-0.9245E-01	0.5842E-01	0.1512E-01	0.5605E-02	0.5231E-02
85	0.1488E-01	-0.6769E-01	0.5835E-01	0.1445E-01	0.5144E-02	0.4459E-02
86	-0.5915E-03	0.6565E-03	0.2302E-01	0.8150E-02	0.1486E-02	0.7216E-03
87	0.1590E-07	-0.9124E-08	0.3679E-07	0.6900E-08	-0.7291E-09	-0.1072E-09

COUPLED MODE SHAPES (FOR SECONDARY MODE) MODE 23
FREQUENCY (HZ.) = 19.64076

MODAL DISP AT PRIMARY SYSTEM CONNETING DOF

DOF #	DISPLACEMENT
3041	0.6671E-05
3042	0.0000E+00
3043	0.1807E-04
3061	-0.3888E-05
3063	0.6072E-04
3072	0.0000E+00
3081	-0.3105E-04
3103	0.2186E-03
3121	-0.1302E-03
3122	0.0000E+00
3123	0.2852E-03
3091	-0.4615E-04
3092	0.0000E+00
3093	0.1354E-03

MODAL DISPLACEMENTS AT SECONDARY SYSTEM DOF

NODE	DX	DY	DZ	ROT-X	ROT-Y	ROT-Z
1	-0.3740E-07	-0.6381E-07	-0.2963E-07	-0.3399E-08	0.1429E-07	-0.1952E-07
2	-0.3309E-01	-0.5266E-01	-0.3302E-01	0.5396E-03	0.1280E-01	-0.2059E-01
3	-0.1538E+00	-0.5954E+00	-0.3709E+00	0.9635E-02	0.3096E-01	-0.5167E-01
4	-0.1550E+00	-0.2109E+01	-0.1332E+01	0.2725E-01	0.3651E-01	-0.5138E-01
5	-0.1555E+00	-0.2675E+01	-0.1788E+01	0.3601E-01	0.3101E-01	-0.3136E-01
9001	-0.1421E+00	-0.2728E+01	-0.1825E+01	0.3747E-01	0.2901E-01	-0.2461E-01
9002	-0.1135E+00	-0.2758E+01	-0.1811E+01	0.3931E-01	0.2709E-01	-0.1783E-01
6	-0.6675E-01	-0.2765E+01	-0.1749E+01	0.4125E-01	0.2553E-01	-0.1124E-01
7	-0.6635E-01	-0.2765E+01	-0.1655E+01	0.4240E-01	0.2394E-01	-0.7342E-02
9003	-0.5364E+00	-0.2765E+01	0.2516E-01	0.4250E-01	-0.2070E-02	0.2158E-01
9004	-0.9913E+00	-0.2762E+01	0.1031E+01	0.5903E-02	-0.2808E-01	-0.4542E-02
9	0.1008E+00	-0.2757E+01	0.2661E+00	-0.4676E-01	-0.5408E-01	-0.5582E-01
10	0.4845E+00	-0.2755E+01	-0.5955E-01	-0.5529E-01	-0.5859E-01	-0.6299E-01
9005	0.2363E+01	-0.2747E+01	-0.2034E+01	-0.5762E-01	-0.6068E-01	-0.4102E-01
9006	0.2396E+01	-0.2736E+01	-0.3129E+01	-0.7574E-02	-0.1028E+00	0.4516E-01
11	-0.5330E+00	-0.2724E+01	-0.2604E+01	0.3297E-01	-0.1249E+00	0.1385E+00
12	-0.2172E+01	-0.2720E+01	-0.2233E+01	0.3358E-01	-0.1325E+00	0.1662E+00
9007	-0.2492E+01	-0.2612E+01	-0.2104E+01	0.3185E-01	-0.1337E+00	0.1748E+00
9008	-0.2759E+01	-0.2384E+01	-0.1876E+01	0.2990E-01	-0.1347E+00	0.1816E+00
13	-0.2831E+01	-0.2036E+01	-0.1607E+01	0.2784E-01	-0.1353E+00	0.1851E+00
14	-0.2831E+01	-0.1520E+01	-0.1233E+01	0.2489E-01	-0.1353E+00	0.1843E+00
15	-0.2831E+01	-0.4401E+00	-0.4256E+00	0.1846E-01	-0.1322E+00	0.1678E+00
16	-0.2830E+01	0.1445E+01	0.1283E+01	0.3520E-02	-0.1076E+00	0.1000E+00
17	-0.2938E+01	0.1673E+01	0.1551E+01	0.2899E-02	-0.9251E-01	0.7307E-01
18	-0.3342E+01	0.1937E+01	0.1956E+01	-0.8089E-02	-0.7284E-01	0.2833E-01
19	-0.3753E+01	0.2013E+01	0.2369E+01	-0.2146E-01	-0.4667E-01	-0.3715E-01
20	-0.4187E+01	0.3959E+00	0.2809E+01	-0.5301E-01	-0.1192E-01	-0.2142E+00
21	-0.3275E+01	-0.9050E+01	0.2646E+01	-0.5131E-01	-0.9459E-02	-0.2697E+00
9009	0.8297E+01	-0.9048E+01	0.4504E+00	-0.5400E-01	-0.3111E-01	-0.3228E+00
9010	0.1084E+02	-0.9037E+01	-0.1207E+01	-0.2053E-01	-0.5276E-01	0.1086E+00
22	0.2216E+01	-0.9017E-01	-0.9717E+00	0.2995E-01	-0.7441E-01	0.2406E+00
23	0.2898E+00	-0.9012E-01	-0.6797E+00	0.3825E-01	-0.7900E-01	0.2062E+00
24	-0.2345E+01	-0.8998E-01	0.3286E-01	0.4652E-01	-0.8754E-01	0.1153E+00
9011	-0.3282E+01	-0.8966E-01	0.1407E+01	0.2752E-01	-0.1059E+00	-0.5202E-01
9012	0.1606E+00	-0.8928E-01	0.1573E+01	-0.1880E-01	-0.1239E+00	-0.1305E+00
25	0.3964E+01	-0.8884E-01	0.3288E+00	-0.4894E-01	-0.1419E+00	-0.7448E-01
26	0.4501E+01	-0.8870E-01	-0.1463E+00	-0.5012E-01	-0.1471E+00	-0.3740E-01
9013	0.3424E+01	-0.8814E-01	-0.1601E+01	-0.2378E-01	-0.1662E+00	0.9226E-01
9014	-0.9421E+00	-0.8751E-01	-0.1691E+01	0.2239E-01	-0.1853E+00	0.1296E+00

27	-0.4024E+01	-0.8682E-01	-0.4320E+00	0.3256E-01	-0.2045E+00	0.2544E-01
28	-0.3951E+01	-0.8654E-01	-0.7447E-01	0.1920E-01	-0.2116E+00	-0.3718E-01
29	-0.2349E+01	-0.8608E-01	0.6062E-01	-0.3838E-02	-0.2224E+00	-0.1162E+00
9015	0.2895E+01	-0.8517E-01	-0.4895E+00	-0.1934E-01	-0.2426E+00	-0.1303E+00
9016	0.5658E+01	-0.8418E-01	-0.1059E+01	-0.8337E-02	-0.2627E+00	-0.3739E-02
30	0.3593E+01	-0.8312E-01	-0.1175E+01	-0.2463E-02	-0.2829E+00	0.8854E-01
31	0.3503E+01	-0.8309E-01	-0.1177E+01	-0.2683E-02	-0.2834E+00	0.8893E-01
32	0.2952E+01	-0.7905E-01	-0.1166E+01	-0.4186E-02	-0.2849E+00	0.8948E-01
33	0.2096E+01	-0.6550E-01	-0.1191E+01	-0.5717E-02	-0.2848E+00	0.8844E-01
37	-0.2864E+00	-0.1093E-01	-0.1191E+01	-0.6469E-02	-0.2764E+00	0.8482E-01
9017	-0.7358E+01	0.1456E+00	-0.1168E+01	-0.2642E-02	-0.1291E+00	0.7093E-01
9018	-0.7789E+01	0.1467E+00	-0.1185E+01	0.2459E-02	0.9962E-01	0.5703E-01
38	-0.2175E+01	0.1407E-01	-0.1181E+01	0.4936E-02	0.2081E+00	0.4314E-01
39	-0.5780E-01	-0.3680E-01	-0.1179E+01	0.4749E-02	0.1935E+00	0.3869E-01
9019	0.4520E+01	-0.1543E+00	-0.1173E+01	0.1524E-02	0.6148E-01	0.2407E-01
40	0.4025E+01	-0.1274E+00	-0.1166E+01	-0.2855E-02	-0.8000E-01	0.9447E-02
41	0.6870E+00	-0.1096E-01	-0.1160E+01	-0.4370E-02	-0.1099E+00	-0.3187E-02
43	0.4941E+00	-0.1407E-01	-0.7879E+00	-0.3835E-02	-0.8795E-01	-0.6317E-02
44	0.4939E+00	-0.2351E-01	-0.8627E+00	-0.3782E-02	-0.8335E-01	-0.6821E-02
45	0.4934E+00	-0.5222E-01	-0.1677E+00	-0.3642E-02	-0.6804E-01	-0.8003E-02
9020	0.4891E+00	-0.3108E+00	0.7193E-01	-0.2595E-02	0.2277E-01	-0.7111E-02
46	0.4845E+00	-0.3269E+00	-0.9072E+00	-0.1548E-02	0.3118E-01	0.7997E-02
47	0.4840E+00	-0.2997E+00	-0.9962E+00	-0.1437E-02	0.2729E-01	0.1023E-01
91	0.4528E+00	-0.2997E+00	-0.1000E+01	-0.1090E-02	0.2470E-01	0.1056E-01
92	0.3304E+00	-0.3003E+00	-0.1002E+01	0.1546E-03	0.6031E-02	0.1002E-01
93	0.2926E+00	-0.2997E+00	-0.1002E+01	-0.1301E-02	-0.4779E-02	0.7766E-02
94	0.2709E+00	-0.2943E+00	-0.1002E+01	-0.2643E-02	-0.8162E-02	0.5908E-02
95	0.2179E+00	-0.2746E+00	-0.1002E+01	-0.5949E-02	-0.1246E-01	0.3041E-02
96	0.1463E+00	-0.2347E+00	-0.1001E+01	-0.1058E-01	-0.1549E-01	0.1736E-02
97	0.1423E+00	-0.2320E+00	-0.1001E+01	-0.1084E-01	-0.1560E-01	0.3081E-04
98	0.6795E-01	-0.1757E+00	-0.9323E+00	-0.2210E-01	-0.1897E-01	-0.3568E-02
100	0.4839E-01	-0.1759E+00	-0.8235E+00	-0.2525E-01	-0.2038E-01	-0.4025E-02
101	0.3699E-01	-0.1760E+00	-0.7447E+00	-0.2634E-01	-0.2132E-01	-0.3692E-02
102	0.2437E-01	-0.1760E+00	-0.6397E+00	-0.2820E-01	-0.2164E-01	-0.2577E-02
113	-0.9837E-01	-0.4149E-01	-0.7451E+00	-0.1699E-01	-0.2415E-01	-0.4211E-02
114	-0.2049E+00	0.1591E-01	-0.7453E+00	-0.1095E-01	-0.2563E-01	-0.4695E-02
115	-0.3156E+00	0.5306E-01	-0.7455E+00	-0.7467E-02	-0.2626E-01	-0.5179E-02
116	-0.4804E+00	0.9403E-01	-0.7457E+00	-0.7084E-02	-0.2620E-01	-0.5891E-02
118	-0.5248E+00	0.1120E+00	-0.7661E+00	-0.1033E-01	-0.2552E-01	-0.6510E-02
9023	-0.2755E+00	0.1105E+00	-0.1091E+01	-0.5466E-02	-0.2044E-01	-0.1126E-01
120	0.6870E-01	0.1090E+00	-0.9575E+00	0.1225E-01	-0.1535E-01	-0.1073E-01
122	0.5809E-01	0.7897E-01	-0.9283E+00	0.1314E-01	-0.1480E-01	-0.9454E-02
124	-0.3685E-02	0.2528E-01	-0.9282E+00	0.1117E-01	-0.1445E-01	-0.8005E-02
125	-0.1458E+00	-0.2093E-01	-0.9277E+00	-0.5404E-02	-0.1345E-01	-0.4539E-02
127	-0.1834E+00	0.3464E-02	-0.8931E+00	-0.2094E-01	-0.1254E-01	-0.3042E-02
129	-0.1697E+00	0.2043E-02	-0.4949E-01	-0.2350E-01	-0.7392E-02	0.4121E-02
9024	-0.5654E-01	0.1022E-02	0.8468E-01	0.3635E-02	-0.3696E-02	0.5793E-02
130	-0.3164E-08	0.2234E-07	0.1251E-07	0.1426E-08	-0.2099E-09	0.7204E-09
48	0.4836E+00	-0.2665E+00	-0.1078E+01	-0.2303E-02	0.2638E-01	0.1136E-01
49	0.4830E+00	-0.2060E+00	-0.1204E+01	-0.3747E-02	0.2289E-01	0.1210E-01
50	0.4822E+00	-0.1455E+00	-0.1307E+01	-0.5190E-02	0.1774E-01	0.1129E-01
51	0.4820E+00	-0.1285E+00	-0.1333E+01	-0.5623E-02	0.1601E-01	0.1072E-01
52	0.4811E+00	-0.7648E-01	-0.1403E+01	-0.7210E-02	0.9075E-02	0.7321E-02
53	0.4770E+00	-0.9377E-01	-0.1242E+01	-0.1421E-01	-0.2164E-02	-0.6788E-02
54	0.4707E+00	-0.4448E+00	-0.4465E-02	-0.2453E-01	-0.3887E-01	-0.9264E-02
55	0.4706E+00	-0.4517E+00	0.2473E-01	-0.2475E-01	-0.3869E-01	-0.9119E-02
56	0.3349E+00	-0.3846E+00	0.1658E+00	-0.2705E-01	-0.3163E-01	-0.6814E-02
57	0.2652E+00	-0.3232E+00	0.1358E+00	-0.2757E-01	-0.2819E-01	-0.6146E-02
58	0.2128E+00	-0.2675E+00	0.1659E+00	-0.2802E-01	-0.2472E-01	-0.5552E-02
59	0.1467E+00	-0.1824E+00	0.1660E+00	-0.2866E-01	-0.2000E-01	-0.4661E-02
103	0.1464E+00	-0.1740E+00	0.1052E+00	-0.2927E-01	-0.8692E-02	0.2534E-02
104	0.1455E+00	-0.2654E+00	0.1539E+00	-0.3171E-01	0.1224E-01	0.1162E-01
105	0.1451E+00	-0.2959E+00	0.1896E+00	-0.3250E-01	0.1068E-01	0.8096E-02
106	0.1448E+00	-0.3132E+00	0.2158E+00	-0.3329E-01	0.6393E-02	0.3572E-02
107	0.1434E+00	-0.3034E+00	0.1468E+00	-0.3632E-01	-0.2103E-01	-0.1412E-02
109	0.1055E+00	-0.2471E+00	0.1115E+00	-0.3674E-01	-0.2572E-01	0.6811E-03
111	0.3019E-01	-0.1251E+00	0.1115E+00	-0.3498E-01	-0.1375E-01	0.4516E-02
112	0.1803E-01	-0.7657E-01	0.1115E+00	-0.3344E-01	-0.1527E-02	0.6126E-02
60	0.9370E-01	-0.9544E-01	0.1660E+00	-0.2924E-01	-0.1611E-01	-0.3924E-02
61	0.5129E-01	-0.6853E-02	0.1661E+00	-0.2973E-01	-0.1294E-01	-0.3166E-02
62	0.4817E-01	0.5807E-03	0.1661E+00	-0.2976E-01	-0.1271E-01	-0.3125E-02
63	0.1341E-01	0.1219E+00	0.1384E+00	-0.3071E-01	-0.5277E-02	-0.1370E-02
64	0.1412E-01	0.1219E+00	0.1078E+00	-0.3229E-01	-0.9508E-03	0.1632E-02
65	0.1444E-01	0.1097E+00	0.1064E+00	-0.3301E-01	0.9366E-04	0.3338E-02
131	0.3527E-02	0.1097E+00	-0.1203E-02	-0.3312E-01	0.9366E-04	0.3353E-02
132	-0.7400E-02	0.1097E+00	-0.1093E+00	-0.3320E-01	0.9366E-04	0.3358E-02
66	0.1477E-01	0.8870E-01	0.1087E+00	-0.3312E-01	0.4915E-03	0.4835E-02
67	0.1506E-01	0.6576E-01	0.1110E+00	-0.3322E-01	0.2617E-03	0.5772E-02
68	0.1526E-01	0.4748E-01	0.1115E+00	-0.3328E-01	-0.2105E-03	0.6245E-02
69	0.1541E-01	0.2800E-01	0.1109E+00	-0.3327E-01	-0.4293E-03	0.6597E-02
70	0.1553E-01	0.1280E-01	0.1099E+00	-0.3326E-01	-0.7618E-03	0.6771E-02
71	0.1578E-01	-0.2163E-01	0.1038E+00	-0.3324E-01	-0.2012E-02	0.6881E-02
133	-0.6583E-02	-0.2183E-01	-0.4455E-02	-0.3335E-01	-0.2012E-02	0.6899E-02
134	-0.2912E-01	-0.2184E-01	-0.1133E+00	-0.3343E-01	-0.2012E-02	0.6920E-02
72	0.1602E-01	-0.5603E-01	0.8972E-01	-0.3266E-01	-0.4009E-02	0.6662E-02
73	0.1707E-01	-0.1700E+00	-0.1711E+00	-0.3011E-01	-0.2221E-01	0.2702E-02
74	0.1719E-01	-0.1759E+00	-0.2314E+00	-0.2983E-01	-0.2459E-01	0.1969E-02
75	0.1743E-01	-0.1820E+00	-0.1638E+00	-0.2925E-01	-0.2631E-01	0.4033E-03
76	0.1766E-01	-0.1800E+00	-0.4946E+00	-0.2868E-01	-0.2419E-01	-0.1178E-02
77	0.1777E-01	-0.1760E+00	-0.5537E+00	-0.2839E-01	-0.2178E-01	-0.1930E-02
78	0.1782E-01	-0.1701E+00	-0.6324E+00	-0.2696E-01	-0.1745E-01	-0.1126E-02
9021	0.1812E-01	-0.1898E+00	-0.7333E+00	-0.1669E-01	0.8750E-02	0.1607E-02
79	0.1841E-01	-0.2315E+00	-0.2807E+00	-0.6425E-02	0.1883E-01	0.1034E-02
80	0.1852E-01	-0.2403E+00	-0.8438E+00	-0.2525E-02	0.1636E-01	0.6461E-03
81	0.1855E-01	-0.2419E+00	-0.4161E-01	-0.1561E-02	0.1515E-01	0.5934E-03
82	-0.2415E-01	-0.2438E+00	0.7703E-02	0.9312E-03	0.9115E-02	0.2711E-03
9022	-0.1031E+00	-0.1540E+00	0.8367E-02	0.5224E-02	-0.1461E-02	0.2946E-03
83	-0.2323E-01	-0.2340E-01	0.9068E-02	0.3757E-02	-0.3040E-02	0.3181E-03
84	-0.1638E-01	-0.1508E-01	0.9130E-02	0.3287E-02	-0.2702E-02	0.3202E-03
85	-0.1201E-01	-0.9627E-02	0.9174E-02	0.2915E-02	-0.2411E-02	0.3217E-03
86	-0.9436E-03	0.7792E-03	-0.1191E-03	0.5137E-03	-0.3272E-03	0.2453E-03

87	-0.1004E-07	-0.7083E-08	-0.2205E-07	-0.2142E-09	0.3336E-09	0.2679E-09

COUPLED MODE SHAPES (FOR SECONDARY MODE) MODE 24
FREQUENCY (HZ.) = 20.88973

MODAL DISP AT PRIMARY SYSTEM CONNETING DOF

DOF #	DISPLACEMENT
3041	0.4611E-04
3042	0.0000E+00
3043	-0.3616E-04
3061	0./641E-04
3063	-0.1215E-03
3072	0.0000E+00
3081	0.7811E-04
3103	-0.4375E-03
3121	0.2804E-04
3122	0.0000E+00
3123	-0.5708E-03
3091	0.7172E-04
3082	0.0000E+00
3093	-0.2710E-03

MODAL DISPLACEMENTS AT SECONDARY SYSTEM DOF

NODE	DX	DY	DZ	ROT-X	ROT-Y	ROT-Z
1	0.5334E-07	0.2775E-07	-0.3392E-07	0.5884E-08	0.7688E-08	0.4431E-06
2	-0.1839E-01	0.2374E-01	-0.1909E-01	0.5488E-02	0.8218E-02	0.3584E-02
3	-0.1065E+00	0.1585E+00	-0.2898E+00	0.1531E-01	0.2808E-01	0.6022E-02
4	-0.1051E+00	0.1604E+00	-0.1269E+01	0.3061E-01	0.3988E-01	-0.1073E-01
5	-0.1042E+00	-0.9745E-01	-0.1741E+01	0.3831E-01	0.3572E-01	-0.2918E-01
9001	-0.8748E-01	-0.1574E+00	-0.1826E+01	0.3960E-01	0.3395E-01	-0.3507E-01
9002	-0.3467E-01	-0.2093E+00	-0.1816E+01	0.4124E-01	0.3222E-01	-0.4089E-01
6	0.4788E-01	-0.2308E+00	-0.1753E+01	0.4299E-01	0.3060E-01	-0.4633E-01
7	0.1564E+00	-0.2308E+00	-0.1655E+01	0.4404E-01	0.2955E-01	-0.4934E-01
9003	0.2143E+01	-0.2296E+00	0.5625E-01	0.4253E-01	0.5650E-02	-0.3937E-01
9004	0.2282E+01	-0.2281E+00	0.1038E+01	0.4778E-02	-0.1805E-01	0.3468E-01
9	-0.2256E-02	-0.2265E+00	0.2627E+00	-0.4503E-01	-0.4175E-01	0.7493E-01
10	-0.4775E+00	-0.2261E+00	-0.4839E-01	-0.5236E-01	-0.4585E-01	0.7328E-01
9005	-0.2299E+01	-0.2243E+00	-0.1863E+01	-0.5147E-01	-0.6598E-01	0.3494E-01
9006	-0.2494E+01	-0.2224E+00	-0.2810E+01	-0.5687E-02	-0.8612E-01	-0.1991E-01
11	-0.1546E+01	-0.2203E+00	-0.2405E+01	0.2165E-01	-0.1062E+00	-0.2629E-01
12	-0.1347E+01	-0.2195E+00	-0.2191E+01	0.1540E-01	-0.1132E+00	-0.7812E-02
9007	-0.1339E+01	-0.2205E+00	-0.2108E+01	0.1115E-01	-0.1141E+00	0.9294E-03
9008	-0.1346E+01	-0.2124E+00	-0.1938E+01	0.6918E-02	-0.1145E+00	0.1009E-01
13	-0.1352E+01	-0.1843E+00	-0.1719E+01	0.2862E-02	-0.1147E+00	0.1913E-01
14	-0.1352E+01	-0.1216E+00	-0.1402E+01	-0.2774E-02	-0.1143E+00	0.2553E-01
15	-0.1351E+01	0.7009E-01	-0.7229E+00	-0.1505E-01	-0.1101E+00	0.3706E-01
16	-0.1349E+01	0.6799E+00	0.6441E+00	-0.4361E-01	-0.7965E-01	0.4342E-01
17	-0.1423E+01	0.8439E+00	0.8316E+00	-0.4930E-01	-0.6134E-01	0.3924E-01
18	-0.1665E+01	0.1277E+01	0.1077E+01	-0.5887E-01	-0.3817E-01	0.2566E-01
19	-0.1822E+01	0.1799E+01	0.1237E+01	-0.6332E-01	-0.8591E-02	-0.2626E-02
20	-0.1468E+01	0.1734E+01	0.8897E+00	-0.3186E-01	0.3729E-01	-0.1207E+00
21	-0.7754E+00	0.1414E+01	0.7414E+00	-0.4414E-03	0.4367E-01	-0.1745E+00
9009	0.7127E+01	0.1417E+01	0.1870E+01	0.3260E-01	0.6217E-01	-0.1464E+00
9010	0.8020E+01	0.1417E+01	0.2116E+01	-0.2609E-01	0.8067E-01	0.1052E+00
22	0.1456E+01	0.1416E+01	0.8716E+01	-0.6071E-01	0.9917E-01	0.1469E+00
23	0.3860E+00	0.1416E+01	-0.4183E+00	-0.5719E-01	0.1031E+00	0.9826E-01
24	-0.3674E+00	0.1415E+01	-0.1240E+01	-0.4095E-01	0.1106E+00	0.1091E-02
9011	0.1439E+01	0.1411E+01	-0.1769E+01	0.1220E-01	0.1261E+00	-0.8196E-01
9012	0.3650E+01	0.1407E+01	-0.5600E+00	0.5299E-01	0.1415E+00	-0.3140E-01
25	0.2996E+01	0.1401E+01	0.1216E+01	0.4298E-01	0.1569E+00	0.6875E-01
26	0.2221E+01	0.1399E+01	0.1567E+01	0.3020E-01	0.1612E+00	0.9272E-01
9013	-0.1641E+01	0.1391E+01	0.1705E+01	-0.2231E-01	0.1776E+00	0.1013E+00
9014	-0.3717E+01	0.1383E+01	0.3837E+00	-0.4053E-01	0.1939E+00	0.3054E-02
27	-0.1845E+01	0.1372E+01	-0.2928E+00	0.1671E-01	0.2103E+00	-0.9625E-01
28	-0.4461E+00	0.1368E+01	0.1932E+00	0.5890E-01	0.2164E+00	-0.1113E+00
29	0.1739E+01	0.1361E+01	0.1690E+01	0.9904E-01	0.2256E+00	-0.9885E-01
9015	0.3644E+01	0.1348E+01	0.4958E+01	0.3900E-01	0.2429E+00	0.1298E-01
9016	0.6529E+00	0.1332E+01	0.4341E+01	-0.5882E-01	0.2601E+00	0.1344E+00
30	-0.5291E+01	0.1316E+01	0.2731E+01	0.2046E-01	0.2773E+00	0.1660E+00
31	-0.5457E+01	0.1315E+01	0.2754E+01	0.2642E-01	0.2778E+00	0.1654E+00
32	-0.5586E+01	0.1261E+01	0.2865E+01	0.6000E-01	0.2794E+00	0.1627E+00
35	-0.5020E+01	0.1053E+01	0.2943E+01	0.9009E-01	0.2811E+00	0.1607E+00
37	-0.2644E+01	0.1583E+00	0.2942E+01	0.1102E+00	0.2807E+00	0.1559E+00
9017	0.5235E+01	-0.2865E+01	0.2931E+01	0.6014E-01	0.1716E+00	0.1376E+00
9018	0.7215E+01	-0.3199E+01	0.2918E+01	-0.4086E-01	-0.5619E-01	0.1193E+00
38	0.2324E+01	-0.6447E+00	0.2903E+01	-0.1014E+00	-0.2150E+00	0.1010E+00
39	0.7740E-02	0.4209E+00	0.2898E+01	-0.1014E+00	-0.2259E+00	0.9516E-01
9019	-0.6431E+01	0.3087E+01	0.2877E+01	-0.3952E-01	-0.1140E+00	0.7592E-01
40	-0.6571E+01	0.2720E+01	0.2854E+01	0.5782E-01	0.1047E+00	0.5667E-01
41	-0.1531E+01	0.2824E+00	0.2832E+01	0.9359E-01	0.2087E+00	0.4004E-01
43	-0.7395E+00	0.7634E-01	0.2046E+01	0.9048E-01	0.1965E+00	0.3777E-01
44	-0.7393E+00	0.1301E+00	0.1761E+01	0.8751E-01	0.1901E+00	0.3777E-01
45	-0.7386E+00	0.2750E+00	0.1066E+01	0.8695E-01	0.1629E+00	0.3767E-01
9020	-0.7328E+00	0.1143E+01	-0.5665E+00	0.6778E-01	-0.2245E-01	0.1715E-01
46	-0.7266E+00	0.1048E+01	0.9401E+00	0.4861E-01	-0.5515E-01	-0.2568E-01
47	-0.7259E+00	0.9634E+00	0.1100E+01	0.4660E-01	-0.4943E-01	-0.3072E-01
91	-0.6336E+00	0.9636E+00	0.1239E+01	0.4567E-01	-0.4563E-01	-0.3054E-01
92	-0.3084E+00	0.9650E+00	0.1708E+01	0.3711E-01	-0.1878E-01	-0.2899E-01
93	-0.2524E+00	0.8486E+00	0.1835E+01	0.2914E-01	-0.3202E-02	-0.2071E-01
94	-0.2536E+00	0.7573E+00	0.1835E+01	0.2854E-01	0.1940E-02	-0.1719E-01
95	-0.2251E+00	0.6139E+00	0.1835E+01	0.3045E-01	0.8864E-02	-0.1175E-01
96	-0.1650E+00	0.4524E+00	0.1834E+01	0.3537E-01	0.1440E-01	-0.6322E-02
97	-0.1613E+00	0.4436E+00	0.1834E+01	0.3569E-01	0.1463E-01	-0.6051E-02
98	-0.9663E-01	0.2906E+00	0.1664E+01	0.5030E-01	0.2273E-01	0.1570E-02
100	-0.8328E-01	0.2910E+00	0.1425E+01	0.5459E-01	0.2684E-01	0.3635E-02

101	-0.7046E-01	J.2912E+00	0.1257E+01	0.5607E-01	0.2958E-01	0.4303E-02
102	-0.5334E-01	0.2914E+00	0.1039E+01	0.5825E-01	0.3159E-01	0.4367E-02
113	0.1195E+00	-0.1429E-01	0.1258E+01	0.4358E-01	0.3437E-01	0.5133E-02
114	0.2724E+00	-0.1788E+00	0.1258E+01	0.3486E-01	0.3705E-01	0.5907E-02
115	0.4334E+00	-0.3123E+00	0.1259E+01	0.2915E-01	0.3837E-01	0.6680E-02
116	0.6758E+00	-0.4814E+00	0.1259E+01	0.2683E-01	0.3875E-01	0.7818E-02
118	0.7437E+00	-0.5428E+00	0.1323E+01	0.2915E-01	0.3805E-01	0.8777E-02
9023	0.3894E+00	-0.5608E+00	0.1955E+01	0.2796E-02	0.3256E-01	0.1660E-01
120	-0.1294E+00	-0.5383E+00	0.1338E+01	-0.3891E-01	0.2708E-01	0.1642E-01
122	-0.1047E+00	-0.4456E+00	0.1247E+01	-0.4108E-01	0.2656E-01	0.1451E-01
124	0.6999E-02	-0.2742E+00	0.1247E+01	-0.3704E-01	0.2627E-01	0.1238E-01
125	0.2681E+00	-0.4418E-02	0.1246E+01	-0.6897E-02	0.2485E-01	0.7295E-02
127	0.3359E+00	-0.6552E-02	0.1225E+01	0.1932E-01	0.2323E-01	0.5037E-02
129	0.3126E+00	-0.3866E-02	0.7910E-01	0.3475E-01	0.1370E-01	-0.7349E-02
9024	0.1239E+00	-0.1933E-02	-0.1228E+00	-0.5142E-02	0.6849E-02	-0.1073E-01
130	0.6022E-06	-0.4227E-07	-0.1835E-07	-0.2078E-08	0.3890E-09	-0.1350E-08
48	-0.7253E+00	0.8623E+00	0.1248E+01	0.4661E-01	-0.4778E-01	-0.3512E-01
49	-0.7243E+00	0.6714E+00	0.1477E+01	0.4663E-01	-0.4219E-01	-0.3917E-01
50	-0.7232E+00	0.4707E+00	0.1669E+01	0.4665E-01	-0.3414E-01	-0.3862E-01
51	-0.7228E+00	0.4123E+00	0.1719E+01	0.4666E-01	-0.3144E-01	-0.3747E-01
52	-0.7216E+00	0.2213E+00	0.1864E+01	0.4668E-01	-0.2063E-01	-0.2931E-01
53	-0.7155E+00	0.1166E-01	0.1765E+01	0.4679E-01	0.2795E-01	0.7311E-02
54	-0.7059E+00	0.5657E+00	0.1948E-02	0.4694E-01	0.5721E-01	0.1395E-01
55	-0.7057E+00	0.5760E+00	-0.4106E-01	0.4694E-01	0.5699E-01	0.1349E-01
56	-0.5048E+00	0.4400E+00	-0.2495E+00	0.4798E-01	0.4679E-01	0.7246E-02
57	-0.4017E+00	0.3319E+00	-0.2496E+00	0.4824E-01	0.4164E-01	0.5173E-02
58	-0.3245E+00	0.2353E+00	-0.2497E+00	0.4856E-01	0.3643E-01	0.3330E-02
59	-0.2272E+00	0.8892E-01	-0.2499E+00	0.4915E-01	0.2933E-01	0.5656E-03
103	-0.2269E+00	0.1051E+00	-0.1628E+00	0.5050E-01	0.1118E-01	-0.1439E-01
104	-0.2255E+00	0.3885E+00	-0.2613E+00	0.5600E-01	-0.2084E-01	-0.3570E-01
105	-0.2251E+00	0.4885E+00	-0.3207E+00	0.5777E-01	-0.1735E-01	-0.2972E-01
106	-0.2246E+00	0.5649E+00	-0.3620E+00	0.5955E-01	-0.9666E-02	-0.2135E-01
107	-0.2226E+00	0.7020E+00	-0.2515E+00	0.6635E-01	0.3138E-01	-0.8813E-02
109	-0.1670E+00	0.6154E+00	-0.1992E+00	0.6726E-01	0.3757E-01	-0.1137E-01
111	-0.5783E-01	0.3920E+00	-0.1992E+00	0.6416E-01	0.1972E-01	-0.1631E-01
112	-0.4054E-01	0.3028E+00	-0.1992E+00	0.6131E-01	0.1985E-02	-0.1838E-01
60	-0.1497E+00	-0.5943E-01	-0.2500E+00	0.4983E-01	0.2347E-01	-0.1887E-02
61	-0.8818E-01	-0.2099E+00	-0.2501E+00	0.5059E-01	0.1865E-01	-0.4340E-02
62	-0.8369E-01	-0.2226E+00	-0.2501E+00	0.5065E-01	0.1830E-01	-0.4544E-02
63	-0.3491E-01	-0.3862E+00	-0.2124E+00	0.5269E-01	0.6765E-02	-0.9930E-02
64	-0.3593E-01	-0.2432E+00	-0.1801E+00	0.5699E-01	0.2472E-03	-0.1573E-01
65	-0.3639E-01	-0.1587E+00	-0.1835E+00	0.5895E-01	-0.1140E-02	-0.1786E-01
131	0.2165E-01	-0.1587E+00	0.8579E-02	0.5917E-01	-0.1140E-02	-0.1791E-01
132	0.8022E-01	-0.1588E+00	0.2018E+00	0.5934E-01	-0.1140E-02	-0.1798E-01
66	-0.3679E-01	-0.6445E-01	-0.1914E+00	0.5979E-01	-0.1467E-02	-0.1913E-01
67	-0.3713E-01	0.1816E-01	-0.1974E+00	0.6050E-01	-0.8443E-03	-0.1913E-01
68	-0.3737E-01	0.7545E-01	-0.1992E+00	0.6100E-01	0.8492E-04	-0.1853E-01
69	-0.3754E-01	0.1302E+00	-0.1987E+00	0.6135E-01	0.6810E-03	-0.1750E-01
70	-0.3767E-01	0.1689E+00	-0.1968E+00	0.6161E-01	0.1387E-02	-0.1643E-01
71	-0.3795E-01	0.2445E+00	-0.1853E+00	0.6218E-01	0.3742E-02	-0.1317E-01
133	0.4943E-02	0.2446E+00	0.1722F-01	0.6241E-01	0.3742E-02	-0.1322E-01
134	0.4812E-01	0.2447E+00	0.2210E+00	0.6259E-01	0.3742E-02	-0.1326E-01
72	-0.3824E-01	0.3004E+00	-0.1593E+00	0.6172E-01	0.7181E-02	-0.9321E-02
73	-0.3948E-01	0.3563E+00	0.2702E+00	0.5965E-01	0.3522E-01	0.2707E-02
74	-0.3961E-01	0.3482E+00	0.3657E+00	0.5942E-01	0.3671E-01	0.3486E-02
75	-0.3989E-01	0.3273E+00	0.5726E+00	0.5899E-01	0.4076E-01	0.4518E-02
76	-0.4015E-01	0.3031E+00	0.7734E+00	0 5849E-01	0.3664E-01	0.4608E-02
77	-0.4028E-01	0.2915E+00	0.8621E+00	0.5826E-01	0.3243E-01	0.4213E-02
78	-0.4036E-01	0.2780E+00	0.9798E+00	0.5542E-01	0.2614E-01	0.2681E-02
9021	-0.4044E-01	0.3016E+00	0.1134E+01	0.3514E-01	-0.1332E-01	-0.2678E-02
79	-0.4131E-01	0.3737E+00	0.4349E+00	0.1486E-01	-0.2928E-01	-0.1814E-02
80	-0.4148E-01	0.3891E+00	0.1287E+00	0.7151E-02	-0.2557E-01	-0.1113E-02
81	-0.4152E-01	0.3919E+00	0.6184E-01	0.5247E-02	-0.2370E-01	-0.1014E-02
81	0.2554E-01	0.4030E+00	-0.1547E-01	0.3097E-03	-0.1436E-01	-0.3667E-03
9022	0.1535E+00	0.2765E+00	-0.1655E-01	-0.8648E-02	0.2085E-02	-0.3349E-03
83	0.3331E-01	0.4737E-01	-0.1762E-01	-0.6954E-02	0.4591E-02	-0.3012E-03
84	0.2297E-01	0.3185E-01	-0.1772E-01	-0.6166E-02	0.4068E-02	-0.3003E-03
85	0.1639E-01	0.2195E-01	-0.1779E-01	-0.5537E-02	0.3617E-02	-0.2983E-03
86	0.8326E-03	-0.5537E-03	-0.8675E-03	-0.1281E-02	0.4110E-03	-0.1997E-03
87	0.1566E-07	0.1339E-07	0.3459E-07	-0.3998E-11	-0.5531E-09	-0.2303E-09

COUPLED MODE SHAPES (FOR SECONDARY MODE) MODE 25
FREQUENCY (HZ.) = 22.16978

MODAL DISP AT PRIMARY SYSTEM CONNETING DOF

DOF #	DISPLACEMENT
3041	-0.8460E-05
3042	0.0000E+00
3043	-0.2164E-04
3061	-0.1066E-04
3063	-0.7271E-04
3072	0.0000E+00
3081	-0.4818E-05
3103	-0.2617E-03
3121	0.2502E-04
3122	0.0000E+00
3123	-0.3415E-03
3091	-0.4621E-06
3092	0.0000E+00
3093	-0.1622E-03

MODAL DISPLACEMENTS AT SECONDARY SYSTEM DOF

NODE	DX	DY	DZ	ROT-X	ROT-Y	ROT-Z
1	0.1000E-06	0.5640E-07	0.3864E-07	-0.8093E-09	-0.2333E-07	0.1196E-07
2	0.5370E-01	0.2475E-01	0.5320E-01	-0.4099E-02	-0.2020E-01	0.1264E-01

3	0.2364E+00	0.2940E+00	0.5580E+00	-0.2234E-01	-0.4456E-01	0.2780E-01
4	0.2415E+00	0.8672E+00	0.1896E+01	-0.5754E-01	-0.5032E-01	0.5456E-02
5	0.2430E+00	0.7511E+00	0.2531E+01	-0.7525E-01	-0.4442E-01	-0.2514E-01
9001	0.2591E+00	0.6952E+00	0.2574E+01	-0.7806E-01	-0.4247E-01	-0.3494E-01
9002	0.3148E+00	0.6410E+00	0.2522E+01	-0.8137E-01	-0.4056E-01	-0.4460E-01
6	0.4082E+00	0.6169E+00	0.2386E+01	-0.8488E-01	-0.3915E-01	-0.5362E-01
7	0.5358E+00	0.6170E+00	0.2192E+01	-0.8695E-01	-0.3787E-01	-0.5864E-01
9003	0.3077E+01	0.6181E+00	-0.1042E+01	-0.7258E-01	-0.1695E-01	-0.5019E-01
9004	0.3107E+01	0.6146E+00	-0.2328E+01	0.9975E-02	0.3963E-02	0.5140E-01
9	0.2909E-01	0.6184E+00	-0.4977E+00	0.7676E-01	0.2488E-01	0.9203E-01
10	-0.5404E+00	0.6183E+00	0.6691E-02	0.8042E-01	0.2850E-01	0.8567E-01
9005	-0.2377E+01	0.6169E+00	0.2278E+01	0.5087E-01	0.4627E-01	0.2339E-01
9006	-0.1881E+01	0.6151E+00	0.2725E+01	-0.2410E-01	0.6404E-01	-0.5083E-01
11	0.2619E+00	0.6127E+00	0.1086E+01	-0.6809E-01	0.8181E-01	-0.7200E-01
12	0.9864E+00	0.6118E+00	0.3557E+00	-0.6513E-01	0.8792E-01	-0.6070E-01
9007	0.1096E+01	0.5822E+00	0.1910E+00	-0.6210E-01	0.8880E-01	-0.5508E-01
9008	0.1168E+01	0.5112E+00	-0.1534E-01	-0.5902E-01	0.8526E-01	-0.4866E-01
13	0.1192E+01	0.4259E+00	-0.2125E+00	-0.5602E-01	0.8953E-01	-0.4133E-01
14	0.1192E+01	0.3193E+00	-0.4605E+00	-0.5182E-01	0.8933E-01	-0.3497E-01
15	0.1192E+01	0.2552E+00	-0.9916E+00	-0.4269E-01	0.8634E-01	-0.1810E-01
16	0.1192E+01	0.1864E+00	-0.2093E+01	-0.2145E-01	0.6885E-01	0.2014E-01
17	0.1361E+01	0.2757E+00	-0.2264E+01	-0.1765E-01	0.5915E-01	0.3101E-01
18	0.1519E+01	0.5286E+00	-0.2522E+01	-0.4588E-02	0.4547E-01	0.4862E-01
19	0.1763E+01	0.9044E+00	-0.2766E+01	0.1705E-01	0.2473E-01	0.7039E-01
20	0.1805E+01	0.1698E+01	-0.2809E+01	0.8764E-01	-0.1402E-01	0.1146E+00
21	0.1314E+01	0.1752E+01	-0.2375E+01	0.1119E+00	-0.2192E-01	0.1206E+00
9009	-0.2950E+01	0.1751E+01	0.2551E+01	0.9753E-01	-0.4565E-01	0.6518E-01
9010	-0.3089E+01	0.1748E+01	0.3742E+01	-0.4616E-01	-0.6930E-01	-0.5268E-01
22	-0.4657E+00	0.1742E+01	-0.1837E+00	-0.1164E+00	-0.9311E-01	-0.3843E-01
23	-0.2668E+00	0.1741E+01	-0.1141E+01	-0.1065E+00	-0.9814E-01	-0.5258E-02
24	-0.6962E+00	0.1737E+01	-0.2609E+01	-0.6864E-01	-0.1078E+00	0.5009E-01
9011	-0.2820E+01	0.1729E+01	-0.3149E+01	0.3936E-01	-0.1276E+00	0.5250E-01
9012	-0.3228E+01	0.1719E+01	-0.4293E+00	0.1062E+00	-0.1474E+00	-0.3450E-01
25	-0.7681E+00	0.1708E+01	0.2771E+01	0.6544E-01	-0.1671E+00	-0.9842E-01
26	0.1877E+00	0.1704E+01	0.3255E+01	0.3536E-01	-0.1727E+00	-0.1007E+00
9013	0.3000E+01	0.1690E+01	0.2599E+01	-0.6617E-01	-0.1937E+00	-0.3926E-01
9014	0.2479E+01	0.1674E+01	-0.3460E+00	-0.7387E-01	-0.2147E+00	0.6444E-01
27	-0.8451E+00	0.1657E+01	-0.9682E+00	0.6232E-01	-0.2356E+00	0.8869E-01
28	-0.1683E+01	0.1650E+01	0.3920E+00	0.1462E+00	-0.2435E+00	0.6456E-01
29	-0.2449E+01	0.1638E+01	0.4252E+01	0.2132E+00	-0.2553E+00	0.9619E-02
9015	-0.9986E+00	0.1615E+01	0.1010E+02	0.4397E-01	-0.2774E+00	-0.7807E-01
9016	0.2409E+01	0.1591E+01	0.6786E+01	-0.1865E+00	-0.2995E+00	-0.8626E-01
30	0.4919E+01	0.1564E+01	0.7961E+00	-0.3869E-01	-0.3216E+00	-0.5168E-01
31	0.4970E+01	0.1563E+01	0.7614E+00	-0.2709E-01	-0.3222E+00	-0.5107E-01
32	0.4746E+01	0.1544E+01	0.7695E+00	0.3792E-01	-0.3241E+00	-0.4888E-01
33	0.3937E+01	0.1349E+01	0.8355E+00	0.9752E-01	-0.3250E+00	-0.4818E-01
37	0.1207E+01	0.2350E+00	0.8327E+00	0.1479E+00	-0.3192E+00	-0.4718E-01
9017	-0.7223E+01	-0.4544E+01	0.8206E+00	0.1115E+00	-0.1615E+00	-0.4332E-01
9018	-0.8131E+01	-0.5637E+01	0.8078E+00	-0.5284E-01	0.1026E+00	-0.3946E-01
38	-0.2201E+01	-0.1596E+01	0.7945E+00	-0.1723E+00	0.2127E+00	-0.3560E-01
39	-0.1012E+00	0.2493E+00	0.7901E+00	-0.1790E+00	0.1836E+00	-0.3437E-01
9019	0.3489E+01	0.5217E+01	0.7744E+00	-0.8132E-01	0.2542E-01	-0.3031E-01
40	0.2284E+01	0.4936E+01	0.7579E+00	0.9325E-01	-0.7402E-01	-0.2625E-01
41	0.4069E+00	0.8786E+00	0.7432E+00	0.1550E+00	-0.2562E-01	-0.2274E-01
43	0.3753E+00	0.2266E+00	0.7236E+00	0.1456E+00	0.1664E-01	-0.1817E-01
44	0.3751E+00	0.2003E+00	0.6934E+00	0.1432E+00	0.1977E-01	-0.1678E-01
45	0.3745E+00	0.1445E+00	0.6014E+00	0.1369E+00	0.2153E-01	-0.1279E-01
9020	0.3697E+00	0.8100E-01	0.2489E+00	0.8967E-01	0.5514E-02	0.4537E-02
46	0.3646E+00	0.2135E+00	0.1912E+00	0.4241E-01	-0.1487E-03	0.1283E-02
47	0.3640E+00	0.2155E+00	0.1920E+00	0.3744E-01	-0.3241E-03	-0.1854E-03
91	0.3637E+00	0.2156E+00	0.3034E+00	0.3612E-01	-0.1215E-02	0.5692E-03
92	0.3388E+00	0.2162E+00	0.6549E+00	0.2628E-01	-0.7625E-02	0.2383E-02
93	0.2946E+00	0.1402E+00	0.7404E+00	0.1761E-01	-0.1068E-01	0.5038E-03
94	0.2583E+00	0.8698E-01	0.7404E+00	0.1591E-01	-0.1116E-01	-0.8612E-03
95	0.2017E+00	0.1253E-01	0.7404E+00	0.1469E-01	-0.1076E-01	-0.2967E-02
96	0.1506E+00	-0.6007E-01	0.7402E+00	0.1516E-01	-0.8805E-02	-0.5073E-02
97	0.1484E+00	-0.6379E-01	0.7402E+00	0.1522E-01	-0.8663E-02	-0.5178E-02
98	0.1001E+00	-0.1254E+00	0.6734E+00	0.1913E-01	-0.2114E-02	-0.6455E-02
100	0.7020E-01	-0.1251E+00	0.5840E+00	0.1992E-01	0.2795E-02	-0.6036E-02
101	0.5267E-01	-0.1250E+00	0.5235E+00	0.1975E-01	0.6068E-02	-0.5970E-02
102	0.3656E-01	-0.1244E+00	0.4464E+00	0.2015E-01	0.9510E-02	-0.2782E-02
113	0.9474E-01	-0.2224E+00	0.5239E+00	0.1147E-01	0.8213E-02	-0.4176E-02
114	0.1322E+00	-0.2584E+00	0.5242E+00	0.6382E-02	0.9340E-02	-0.3437E-02
115	0.1737E+00	-0.2784E+00	0.5241E+00	0.4259E-02	0.9440E-02	-0.2696E-02
116	0.2360E+00	-0.3087E+00	0.5247E+00	0.7367E-02	0.5993E-02	-0.1611E-02
118	0.2605E+00	-0.3308E+00	0.5523E+00	0.1519E-01	0.9462E-02	-0.7972E-03
9021	0.2030E+00	-0.3288E+00	0.1169E+01	0.1546E-01	0.6432E-02	0.5257E-02
120	-0.1320E-02	-0.3265E+00	0.1107E+01	-0.1925E-01	0.3402E-02	0.7216E-02
122	-0.9822E-02	-0.2738E+00	0.1058E+01	-0.2453E-01	0.3095E-02	0.6519E-02
124	0.2889E-02	-0.1671E+00	0.1058E+01	-0.2420E-01	0.2990E-02	0.5699E-02
125	0.3268E-01	0.2875E-02	0.1057E+01	-0.3704E-02	0.2868E-02	0.3738E-02
127	0.4640E-01	-0.5860E-02	0.1034E+01	0.1836E-01	0.2637E-02	0.2921E-02
129	0.6932E-01	-0.3458E-07	0.6442E-01	0.2878E-01	0.1555E-02	-0.1190E-02
9024	0.2959E-01	-0.1729E-02	-0.1024E+00	-0.4300E-02	0.7774E-03	-0.2484E-02
130	0.1613E-08	-0.3751E-07	-0.1527E-07	-0.1731E-08	0.4415E-10	-0.3127E-09
48	0.3636E+00	0.2095E+00	0.1912E+00	0.3571E-01	0.8380E-03	-0.3279E-02
49	0.3629E+00	0.1813E+00	0.1822E+00	0.3283E-01	0.2739E-02	-0.7371E-02
50	0.3621E+00	0.1359E+00	0.1638E+00	0.2994E-01	0.4427E-02	-0.9986E-02
51	0.3618E+00	0.1201E+00	0.1567E+00	0.2908E-01	0.4883E-02	-0.1045E-01
52	0.3609E+00	0.5902E-01	0.1256E+00	0.2591E-01	0.6253E-02	-0.1091E-01
53	0.3566E+00	-0.1786E+00	-0.4449E-01	0.1192E-01	0.5786E-02	-0.8758E-02
54	0.3499E+00	-0.4878E+00	0.3426E-01	-0.8707E-02	-0.1400E-01	-0.9948E-02
55	0.3498E+00	-0.4952E+00	0.4508E-01	-0.9140E-02	-0.1464E-01	-0.1006E-01
56	0.2756E+00	-0.4921E+00	0.1121E+00	-0.1284E-01	-0.1958E-01	-0.1172E-01
57	0.2301E+00	-0.4626E+00	0.1121E+00	-0.1335E-01	-0.1859E-01	-0.1250E-01
58	0.1945E+00	-0.4351E+00	0.1122E+00	-0.1384E-01	-0.1717E-01	-0.1318E-01
59	0.1462E+00	-0.3923E+00	0.1122E+00	-0.1428E-01	-0.1515E-01	-0.1421E-01
103	0.1460E+00	-0.3421E+00	0.6413E-01	-0.1351E-01	-0.8326E-02	-0.1228E-01
104	0.1453E+00	-0.2268E+00	0.6493E-01	-0.1033E-01	0.4336E-02	-0.1538E-01
105	0.1451E+00	-0.1748E+00	0.7734E-01	-0.9309E-02	0.3411E-02	-0.1948E-01
106	0.1449E+00	-0.1102E+00	0.8398E-01	-0.8265E-02	0.7394E-03	-0.2328E-01

107	0.1438E+00	0.1716E+00	-0.4556E-02	-0.4359E-02	-0.1838E-01	-0.2093E-01
109	0.1116E+00	0.2071E+00	-0.3491E-01	-0.1765E-02	-0.2178E-01	-0.1665E-01
111	0.4730E-01	0.2159E+00	-0.3489E-01	-0.1061E-02	-0.1233E-01	-0.9214E-02
112	0.3552E-01	0.2163E+00	-0.3488E-01	0.6064E-03	-0.2826E-02	-0.6080E-02
60	0.1037E+00	-0.3487E+00	0.1122E+00	-0.1437E-01	-0.1339E-01	-0.1529E-01
61	0.6621E-01	-0.3054E+00	0.1123E+00	-0.1407E-01	-0.1184E-01	-0.1637E-01
62	0.6329E-01	-0.3019E+00	0.1123E+00	-0.1402E-01	-0.1172E-01	-0.1646E-01
63	0.2621E-01	-0.1852E+00	0.7959E-01	-0.1166E-01	-0.7352E-02	-0.1810E-01
64	0.2641E-01	0.1204E-01	0.1713E-01	-0.6670E-02	-0.4368E-02	-0.1643E-01
65	0.2649E-01	0.8910E-01	-0.2206E-01	-0.4401E-02	-0.3519E-02	-0.1379E-01
131	0.7068E-01	0.8913E-01	-0.1643E-01	-0.4411E-02	-0.3519E-02	-0.1381E-01
132	0.1163E+00	0.8917E-01	-0.3091E-01	-0.4440E-02	-0.3519E-02	-0.1392E-01
66	0.2681E-01	0.1516E+00	-0.1809E-01	-0.2296E-02	-0.2824E-02	-0.1093E-01
67	0.2708E-01	0.1925E+00	-0.2883E-01	-0.5075E-03	-0.2228E-02	-0.8085E-02
68	0.2727E-01	0.2137E+00	-0.3488E-01	0.7547E-03	-0.1805E-02	-0.5859E-02
69	0.2742E-01	0.2279E+00	-0.3906E-01	0.2060E-02	-0.9911E-03	-0.3405E-02
70	0.2754E-01	0.2335E+00	-0.4060E-01	0.3074E-02	-0.3874E-03	-0.1448E-02
71	0.2779E-01	0.2296E+00	-0.3919E-01	0.5284E-02	0.9328E-03	0.3249E-02
133	0.1706E-01	0.2297E+00	-0.2179E-01	0.5319E-02	0.9328E-03	0.3272E-02
134	0.6450E-02	0.2298E+00	-0.4510E-02	0.5315E-02	0.9328E-03	0.3266E-02
72	0.2811E-01	0.2017E+00	-0.3125E-01	0.7008E-02	0.2476E-02	0.7305E-02
73	0.2981E-01	-0.4405E-01	0.1447E+00	0.1467E-01	0.1504E-01	0.1022E-01
74	0.2967E-01	-0.6863E-01	0.1858E+00	0.1553E-01	0.1652E-01	0.8993E-02
75	0.2998E-01	-0.1067E+00	0.2735E+00	0.1726E-01	0.1679E-01	0.5620E-02
76	0.3028E-01	-0.1248E+00	0.3536E+00	0.1898E-01	0.1368E-01	0.1110E-02
77	0.3043E-01	-0.1268E+00	0.3859E+00	0.1986E-01	0.1094E-01	-0.1537E-02
78	0.3042E-01	-0.1175E+00	0.4254E+00	0.1882E-01	0.8714E-02	-0.2075E-02
9021	0.3030E-01	-0.1448E-01	0.4574E+00	0.1153E-01	-0.5851E-02	-0.4712E-02
79	0.3015E-01	0.1296E+00	0.1686E+00	0.4246E-02	-0.1180E-01	-0.4942E-02
80	0.3009E-01	0.1791E+00	0.4610E-01	0.1478E-02	-0.1013E-01	-0.4359E-02
81	0.3008E-01	0.1907E+00	0.1965E-01	0.7935E-03	-0.9339E-02	-0.4237E-02
82	0.5567E-01	0.2045E+00	-0.1046E-01	-0.1031E-02	-0.5386E-02	-0.3669E-02
9022	0.9175E-01	0.1289E+00	-0.1089E-01	-0.4295E-02	0.1632E-02	-0.2399E-02
83	0.2242E-01	0.1955E-01	-0.1132E-01	-0.3282E-02	0.2548E-02	-0.1128E-02
84	0.1666E-01	0.1223E-01	-0.1136E-01	-0.2923E-02	0.2269E-02	-0.1012E-02
85	0.1295E-01	0.7526E-02	-0.1139E-01	-0.2634E-02	0.2068E-02	-0.9296E-03
86	0.1398E-02	-0.1275E-02	-0.1678E-03	-0.6876E-03	0.4575E-03	-0.4404E-03
87	0.7257E-08	0.5656E-08	0.1378E-07	-0.1604E-09	0.1304E-10	-0.4120E-09

COUPLED MODE SHAPES (FOR SECONDARY MODE) MODE 26
FREQUENCY (HZ.) = 23.05658

MODAL DISP AT PRIMARY SYSTEM CONNETING DOF

DOF #	DISPLACEMENT
3041	-0.1378E-04
3042	0.0000E+00
3043	-0.7155E-05
3071	-0.1387E-04
3063	-0.2404E-04
3072	0.0000E+00
3081	0.2066E-05
3103	-0.8656E-04
3121	0.7219E-04
3122	0.0000E+00
3123	-0.1129E-03
3091	0.1248E-04
3092	0.0000E+00
3093	-0.5363E-04

MODAL DISPLACEMENTS AT SECONDARY SYSTEM DOF

NODE	DX	DY	DZ	ROT-X	ROT-Y	ROT-Z
1	-0.2066E-06	-0.1124E-06	0.1791E-06	-0.3885E-07	-0.5124E-07	-0.1748E-07
2	0.1216E+00	-0.1310E+00	0.1247E+00	-0.3972E-01	-0.5232E-01	-0.1170E-01
3	0.6687E+00	-0.7843E+00	0.1763E+01	-0.1237E+00	-0.1671E+00	-0.1708E-01
4	0.6618E+00	-0.5945E+00	0.7621E+01	-0.2638E+00	-0.2445E+00	0.5018E-01
5	0.6581E+00	0.5273E+00	0.1086E+02	-0.3342E+00	-0.2375E+00	0.1228E+00
9001	0.5883E+00	0.7781E+00	0.1113E+02	-0.3451E+00	-0.2333E+00	0.1459E+00
9002	0.3697E+00	0.9930E+00	0.1096E+02	-0.3579E+00	-0.2267E+00	0.1686E+00
6	0.3055E-01	0.1082E+01	0.1039E+02	-0.3717E+00	-0.2256E+00	0.1898E+00
7	-0.4131E+00	0.1081E+01	0.9547E+01	-0.3801E+00	-0.2234E+00	0.2014E+00
9003	-0.8286E+01	0.1076E+01	-0.4431E+01	-0.3095E+00	-0.1861E+00	0.1470E+00
9004	-0.8376E+01	0.1070E+01	-0.9776E+01	0.4794E-01	-0.1489E+00	-0.1446E+00
9	-0.1975E+00	0.1063E+01	-0.2059E+01	0.3095E+00	-0.1116E+00	-0.2344E+00
10	0.1154E+01	0.1061E+01	-0.4733E+01	0.3165E+00	-0.1052E+00	-0.1983E+00
9005	0.4905E+01	0.1052E+01	0.8321E+01	0.1674E+00	-0.7353E-01	-0.3212E-01
9006	0.3425E+01	0.1043E+01	0.8806E+01	-0.1400E+00	-0.4189E-01	0.1081E+00
11	-0.1938E+00	0.1033E+01	0.8363E+00	-0.3227E+00	-0.1025E-01	0.8493E-01
12	-0.8243E+00	0.1029E+01	-0.2672E+01	-0.3221E+00	0.6258E-03	0.2636E-01
9007	-0.8525E+00	0.1033E+01	-0.3273E+01	-0.3155E+00	0.2058E-02	0.2002E-02
9008	-0.8395E+00	0.1016E+01	-0.3707E+01	-0.3085E+00	0.2303E-02	-0.2210E-01
13	-0.8244E+00	0.9503E+00	-0.3867E+01	-0.3016E+00	0.1740E-02	-0.4424E-01
14	-0.8249E+00	0.8031E+00	-0.3873E+01	-0.2920E+00	0.1679E-03	-0.5837E-01
15	-0.8259E+00	0.3771E+00	-0.3855E+01	-0.2712E+00	-0.9329E-02	-0.7713E-01
16	-0.8278E+00	-0.8556E+00	-0.3466E+01	-0.2227E+00	-0.5053E-01	-0.9818E-01
17	-0.8983E+00	-0.8891E+00	-0.3307E+01	-0.2112E+00	-0.7047E-01	-0.1058E+00
18	-0.1305E+01	-0.4372E+00	-0.2901E+01	-0.1917E+00	-0.9391E-01	-0.1122E+00
19	-0.2055E+01	-0.6688E-02	-0.2153E+01	-0.1654E+00	-0.1200E+00	-0.1201E+00
20	-0.4606E+01	0.7278E-01	0.3955E+00	-0.1016E+00	-0.1469E+00	-0.1351E+00
21	-0.4468E+01	-0.4411E-01	0.4526E+00	-0.8092E-01	-0.1458E+00	-0.1433E+00
9009	0.1024E+01	-0.4469E-01	-0.1171E+01	0.4579E-03	-0.1320E+00	-0.1094E+00
9010	0.3140E+01	-0.4522E-01	-0.4682E-02	0.4428E-01	-0.1182E+00	0.1291E-01
22	0.7343E+00	-0.4568E-01	0.1346E+01	0.9597E-02	-0.1043E+00	0.7862E-01
23	0.9017E-01	-0.4576E-01	0.1360E+01	-0.6585E-02	-0.1014E+00	0.7053E-01
24	-0.8526E+00	-0.4592E-01	0.1011E+01	-0.3436E-01	-0.9576E-01	0.4354E-01
9011	-0.1299E+01	-0.4619E-01	-0.5718E+00	-0.4892E-01	-0.8424E-01	-0.1649E-01

9012	-0.5453E-01	-0.4642E-01	-0.1657E+01	-0.8536E-02	-0.7273E-01	-0.4868E-01
25	0.1352E+01	-0.4661E-01	-0.1032E+01	0.4195E-01	-0.6121E-01	-0.2581E-01
26	0.1526E+01	-0.4665E-01	-0.5852E+00	0.5099E-01	-0.5793E-01	-0.1044E-01
9013	0.9557E+00	-0.4679E-01	0.1256E+01	0.4017E-01	-0.4571E-01	0.3873E-01
9014	-0.6899E+00	-0.4687E-01	0.1753E+01	-0.1446E-01	-0.3349E-01	0.4232E-01
27	-0.1440E+01	-0.4691E-01	0.5622E+00	-0.4057E-01	-0.2127E-01	-0.6068E-02
28	-0.1139E+01	-0.4691E-01	0.7138E-01	-0.3087E-01	-0.1670E-01	-0.2994E-01
29	-0.3230E+00	-0.4688E-01	-0.3163E+00	-0.8548E-02	-0.9795E-02	-0.5354E-01
9015	0.1549E+01	-0.4678E-01	-0.7544E-01	0.1701E-01	0.3088E-02	-0.3094E-01
9016	0.1399E+01	-0.4662E-01	0.6127E+00	0.1468E-01	0.1597E-01	0.3972E-01
30	-0.9890E+00	-0.4641E-01	0.8644E+00	-0.4219E-03	0.2885E-01	0.7541E-01
31	-0.1065E+01	-0.4641E-01	0.8637E+00	-0.7559E-03	0.2920E-01	0.7535E-01
32	-0.1231E+01	-0.4431E-01	0.8594E+00	-0.2312E-02	0.3040E-01	0.7483E-01
35	-0.1230E+01	-0.3626E-01	0.8563E+00	-0.3523E-02	0.3219E-01	0.7375E-01
37	-0.9440E+00	0.1355E-03	0.8561E+00	-0.4935E-02	0.3599E-01	0.7175E-01
9017	0.3065E+00	0.1795E+00	0.8540E+00	-0.4511E-02	0.3488E-01	0.6404E-01
9018	0.9885E+00	0.2283E+00	0.8511E+00	0.1979E-02	0.2831E-02	0.5634E-01
38	0.4145E+00	0.6635E-01	0.8475E+00	0.7046E-02	-0.3637E-01	0.4864E-01
39	-0.1601E-01	-0.9526E-02	0.8462E+00	0.7400E-02	-0.4609E-01	0.4617E-01
9019	-0.1617E+01	-0.2197E+00	0.8406E+00	0.3661E-02	-0.3377E-01	0.3806E-01
40	-0.1796E+01	-0.2293E+00	0.8341E+00	-0.2747E-02	0.2538E-01	0.2996E-01
41	-0.4301E+00	-0.1196E+00	0.8278E+00	-0.3237E-02	0.5962E-01	0.2295E-01
43	-0.2011E+00	-0.2765E-01	0.5980E+00	-0.1638E-02	0.5836E-01	0.2095E-01
44	-0.2010E+00	0.2338E-02	0.5133E+00	-0.1320E-02	0.5681E-01	0.2061E-01
45	-0.2008E+00	0.7922E-01	0.3041E+00	-0.4791E-03	0.4975E-01	0.1956E-01
9020	-0.1992E+00	0.4711E+00	-0.2946E+00	0.5815E-02	-0.1567E-02	0.6230E-02
46	-0.1974E+00	0.4017E+00	0.3490E-01	0.1211E-01	-0.1400E-01	-0.1068E-01
47	-0.1972E+00	0.3671E+00	0.7591E-01	0.1277E-01	-0.1284E-01	-0.1229E-01
91	-0.1603E+00	0.3672E+00	0.1144E+00	0.1276E-01	-0.1204E-01	-0.1219E-01
92	-0.3088E-01	0.3676E+00	0.2514E+00	0.1090E-01	-0.6243E-02	-0.1043E-01
93	-0.1053E-01	0.3352E+00	0.2877E+00	0.7688E-02	-0.3057E-02	-0.8352E-02
94	-0.1854E-01	0.3117E+00	0.2874E+00	0.7179E-02	-0.2020E-02	-0.7142E-02
95	-0.2494E-01	0.2769E+00	0.2879E+00	0.7233E-02	-0.7134E-03	-0.5275E-02
96	-0.2569E-01	0.2393E+00	0.2879E+00	0.8058E-02	0.2152E-03	-0.3408E-02
97	-0.2552E-01	0.2373E+00	0.2879E+00	0.8113E-02	0.2510E-03	-0.3315E-02
98	-0.2878E-01	0.2035E+00	0.2509E+00	0.1102E-01	0.1491E-02	-0.7870E-03
100	-0.2997E-01	0.2035E+00	0.1983E+00	0.1230E-01	0.1967E-02	0.6844E-04
101	-0.2895E-01	0.2036E+00	0.1601E+00	0.1312E-01	0.2244E-02	0.4553E-03
102	-0.2643E-01	0.2037E+00	0.1097E+00	0.1363E-01	0.2626E-02	0.7162E-03
113	-0.1468E-01	0.1205E+00	0.1602E+00	0.1468E-01	0.2529E-02	0.5695E-03
114	-0.3464E-02	0.5636E-01	0.1602E+00	0.1518E-01	0.2744E-02	0.6756E-03
115	0.8623E-02	-0.7786E-02	0.1602E+00	0.1462E-01	0.2936E-02	0.7822E-03
116	0.2776E-01	-0.9208E-01	0.1602E+00	0.1173E-01	0.3175E-02	0.9387E-03
118	0.3282E-01	-0.1151E+00	0.1803E+00	0.7244E-02	0.3343L-02	0.1029E-02
9023	-0.1998E-02	-0.1157E+00	0.1242E+00	-0.9129E-02	0.4554E-02	0.1294E-02
120	-0.3544E-01	-0.1161E+00	-0.1871E+00	-0.9121E-02	0.5766E-02	0.9556E-03
122	-0.2428E-01	-0.9888E-01	-0.2058E+00	-0.6977E-02	0.5943E-02	0.8356E-03
124	0.1155E-02	-0.7190E-01	-0.2058E+00	-0.6010E-02	0.6059E-02	0.7317E-03
125	0.6257E-01	-0.1382E-01	-0.2058E+00	-0.6081E-02	0.5810E-02	0.4835E-03
127	0.7647E-01	0.6347E-03	-0.1905E+00	-0.7229E-02	0.5567E-02	0.3237E-03
129	0.6530E-01	0.3746E-03	-0.7136E-02	-0.4279E-02	0.3282E-02	-0.1535E-02
9024	0.2596E-01	0.1871E-03	0.1638E-01	0.7291E-03	0.1641E-02	-0.2242E-02
130	0.1276E-04	0.4096E-04	0.2352E-08	0.2715E-09	0.9320E-10	-0.2636E-09
48	-0.1970E+00	0.3272E+00	0.1143E+00	0.1324E-01	-0.1251E-01	-0.1371E-01
49	-0.1967E+00	0.2540E+00	0.1750E+00	0.1403E-01	-0.1146E-01	-0.1483E-01
50	-0.1964E+00	0.1790E+00	0.2289E+00	0.1462E-01	-0.9909E-02	-0.1417E-01
51	-0.1963E+00	0.1577E+00	0.2414E+00	0.1506E-01	-0.9379E-02	-0.1359E-01
52	-0.1959E+00	0.9017E-01	0.2894E+00	0.1593E-01	-0.7200E-02	-0.9903E-02
53	-0.1941E+00	0.6626E-01	0.3345E+00	0.1976E-01	0.3633E-02	0.5774E-02
54	-0.1913E+00	0.3938E+00	-0.1140E-01	0.2541E-01	0.1334E-01	0.8567E-02
55	-0.1912E+00	0.4002E+00	-0.2150E-01	0.2553E-01	0.1339E-01	0.8384E-02
56	-0.1411E+00	0.3292E+00	-0.7238E-01	0.2691E-01	0.1185E-01	0.5980E-02
57	-0.1147E+00	0.2683E+00	-0.7242E-01	0.2719E-01	0.1060E-01	0.5253E-02
58	-0.9504E-01	0.2136E+00	-0.7246E-01	0.2742E-01	0.9280E-02	0.4607E-02
59	-0.7022E-01	0.1308E+00	-0.7251E-01	0.2772E-01	0.7462E-02	0.3639E-02
103	-0.7017E-01	0.1277E+00	-0.5144E-01	0.2797E-01	0.1982E-02	-0.4754E-02
104	-0.6994E-01	0.2459E+00	-0.9049E-01	0.2898E-01	-0.6810E-02	-0.1381E-01
105	-0.6986E-01	0.2808E+00	-0.1086E+00	0.2931E-01	-0.4900E-02	-0.8716E-02
106	-0.6976E-01	0.2973E+00	-0.1190E+00	0.2964E-01	-0.2064E-02	-0.2488E-02
107	-0.6935E-01	0.2589E+00	-0.8144E-01	0.3090E-01	0.8156E-02	0.3482E-02
109	-0.5563E-01	0.2094E+00	-0.6826E-01	0.3094E-01	0.9099E-02	0.2923E-03
111	-0.2961E-01	0.1087E+00	-0.6825E-01	0.2793E-01	0.4777E-02	-0.5555E-02
112	-0.2524E-01	0.7065E-01	-0.6825E-01	0.2555E-01	0.8210E-03	-0.8010E-02
60	-0.5044E-01	0.4718E-01	-0.7255E-01	0.2792E-01	0.5935E-02	0.2851E-02
61	-0.3499E-01	-0.3690E-01	-0.7260E-01	0.2801E-01	0.4626E-02	0.2064E-02
62	-0.3388E-01	-0.4390E-01	-0.7260E-01	0.2801E-01	0.4527E-02	0.1998E-02
63	-0.2253E-01	-0.1519E+00	-0.6465E-01	0.2762E-01	0.1150E-02	-0.5784E-04
64	-0.2274E-01	-0.1343E+00	-0.6342E-01	0.2708E-01	-0.4440E-03	-0.3448E-02
65	-0.2283E-01	-0.1124E+00	-0.6628E-01	0.2683E-01	-0.4969E-03	-0.5414E-02
131	-0.5136E-02	-0.1125E+00	0.2105E-01	0.2695E-01	-0.4969E-03	-0.5441E-02
132	0.1262E-01	-0.1125E+00	0.1092E+00	0.2706E-01	-0.4969E-03	-0.5454E-02
66	-0.2295E-01	-0.8058E-01	-0.6838E-01	0.2621E-01	-0.2546E-03	-0.7012E-02
67	-0.2305E-01	-0.4834E-01	-0.6889E-01	0.2568E-01	0.8915E-04	-0.7869E-02
68	-0.2312E-01	-0.2387E-01	-0.6825E-01	0.2531E-01	0.4047E-03	-0.8192E-02
69	-0.2318E-01	0.1251E-02	-0.6680E-01	0.2483E-01	0.6167E-03	-0.8334E-02
70	-0.2322E-01	0.2020E-01	-0.6525E-01	0.2446E-01	0.8089E-03	-0.8305E-02
71	-0.2331E-01	0.6127E-01	-0.6005E-01	0.2365E-01	0.1333E-02	-0.7828E-02
133	0.2201E-02	0.6129E-01	0.1693E-01	0.2375E-01	0.1333E-02	-0.7864E-02
134	0.2790E-01	0.6132E-01	0.9462E-01	0.2385E-01	0.1333E-02	-0.7892E-02
72	-0.2340E-01	0.9820E-01	-0.5191E-01	0.2248E-01	0.1903E-02	-0.6888E-02
73	-0.2382E-01	0.1989E+00	0.1368E-01	0.1729E-01	0.3784E-02	-0.1962E-02
74	-0.2386E-01	0.2030E+00	0.2346E-01	0.1671E-01	0.3876E-02	-0.1362E-02
75	-0.2395E-01	0.2069E+00	0.4303E-01	0.1554E-01	0.3730E-02	-0.2563E-03
76	-0.2404E-01	0.2055E+00	0.6078E-01	0.1437E-01	0.3180E-02	0.5413E-03
77	-0.2408E-01	0.2037E+00	0.6838E-01	0.1379E-01	0.2768E-02	0.7565E-03
78	-0.2409E-01	0.2003E+00	0.7857E-01	0.1325E-01	0.2304E-02	0.9976E-03
9021	-0.2417E-01	0.1387E+00	0.9765E-01	0.9387E-02	-0.9003E-03	0.3448E-02
79	-0.2423E-01	0.1108E+00	0.4220E-01	0.5523E-02	-0.2465E-02	0.5013E-02
80	-0.2425E-01	-0.4334E-01	0.1590E-01	0.4055E-02	-0.2244E-02	0.4898E-02
81	-0.2426E-01	-0.5642E-01	0.9993E-02	0.3692E-02	-0.2106E-02	0.4807E-02
82	-0.1803E-01	-0.6221E-01	0.2972E-02	0.2820E-02	-0.1389E-02	0.4494E-02

9022	-0.8141E-03	-0.1544E-01	0.2874E-02	0.1049E-02	-0.1334E-03	0.2856E-02
83	-0.3054E-02	0.4100E-03	0.2775E-02	0.3555E-03	0.1321E-03	0.1222E-02
84	-0.3349E-02	0.1205E-02	0.2766E-02	0.3389E-03	0.1076E-03	0.1073E-02
85	-0.3520E-02	0.1754E-02	0.2760E-02	0.3318E-03	0.8525E-04	0.9668E-03
86	-0.1109E-02	0.1137E-02	0.1294E-02	0.2542E-03	-0.7187E-04	0.3947E-03
87	0.9400E-09	0.9693E-09	0.3277E-08	0.2868E-09	-0.1701E-09	0.3294E-09

COUPLED MODE SHAPES (FOR SECONDARY MODE) MODE 27
FREQUENCY (HZ.) = 23.49154

MODAL DISP AT PRIMARY SYSTEM CONNETING DOF

DOF #	DISPLACEMENT
3041	0.7585E-04
3042	0.0000E+00
3043	0.9792E-05
3061	0.1074E-03
3063	0.3291E-04
3072	0.0000E+00
3081	0.7672E-04
3103	0.1185E-03
3121	-0.1180E-03
3122	0.0000E+00
3123	0.1546E-03
3091	0.4888E-04
3092	0.0000E+00
3093	0.7340E-04

MODAL DISPLACEMENTS AT SECONDARY SYSTEM DOF

NODE	DX	DY	DZ	ROT-X	ROT-Y	ROT-Z
1	0.3935E-06	0.1178E-06	0.9320E-07	-0.9864E-08	-0.7117E-07	0.1265E-07
2	0.1632E+00	0.2592E-02	0.1608E+00	-0.1617E-01	-0.6010E-01	0.1333E-01
3	0.7001E+00	0.7964E-01	0.1600E+01	-0.7552E-01	-0.1232E+00	0.1610E-01
4	0.7123E+00	-0.5312E+00	0.5214E+01	-0.1915E+00	-0.1360E+00	-0.8409E-02
5	0.7182E+00	-0.2265E+01	0.6964E+01	-0.2499E+00	-0.1263E+00	-0.1823E+00
9001	0.8211E+00	-0.2635E+01	0.7069E+01	-0.2589E+00	-0.1235E+00	-0.2136E+00
9002	0.1139E+01	-0.2948E+01	0.6873E+01	-0.2691E+00	-0.1207E+00	-0.2443E+00
6	0.1625E+01	-0.3076E+01	0.6417E+01	-0.2800E+00	-0.1191E+00	-0.2724E+00
7	0.2264E+01	-0.3076E+01	0.5779E+01	-0.2864E+00	-0.1182E+00	-0.2875E+00
9003	0.1297E+02	-0.3067E+01	-0.4559E+01	-0.2171E+00	-0.1043E+00	-0.1792E+00
9004	0.1179E+02	-0.3055E+01	-0.7664E+01	0.6272E-01	-0.9045E-01	0.2328E+00
9	0.5227E+00	-0.1039E+01	-0.1526E+01	0.2112E+00	-0.7657E-01	0.2557E+00
10	-0.9215E+00	-0.3035E+01	-0.1993E+00	0.2004E+00	-0.7417E-01	0.1984E+00
9005	-0.3247E+01	-0.3015E+01	0.4220E+01	0.6484E-01	-0.6238E-01	-0.3437E-01
9006	-0.2176E+00	-0.2992E+01	0.3570E+01	-0.9867E-01	-0.5059E-01	-0.1249E+00
11	0.2510E+01	-0.2966E+01	-0.8755E+00	-0.1566E+00	-0.3880E-01	-0.1373E-01
12	0.2238E+01	-0.2957E+01	-0.2487E+01	-0.1392E+00	-0.3475E-01	0.6851E-01
9007	0.2081E+01	-0.2910E+01	-0.2723E+01	-0.1303E+00	-0.3469E-01	0.9876E-01
9008	0.1925E+01	-0.2745E+01	-0.2850E+01	-0.1218E+00	-0.3564E-01	0.1260E+00
13	0.1856E+01	-0.2483E+01	-0.2843E+01	-0.1142E+00	-0.3657E-01	0.1469E+00
14	0.1857E+01	-0.2052E+01	-0.2742E+01	-0.1038E+00	-0.3748E-01	0.1557E+00
15	0.1857E+01	-0.1102E+01	-0.2508E+01	-0.8109E-01	-0.4200E-01	0.1447E+00
16	0.1858E+01	0.4397E+00	-0.1819E+01	-0.2831E-01	-0.5712E-01	0.7990E-01
17	0.1791E+01	0.6448E+00	-0.1659E+01	-0.1456E-01	-0.6328E-01	0.5854E-01
18	0.1461E+01	0.8939E+00	-0.1330E+01	0.2239E-02	-0.7127E-01	0.3301E-01
19	0.9291E+00	0.9281E+00	-0.7974E+00	0.2009E-01	-0.8169E-01	0.2795E-02
20	-0.7160E+00	-0.3554E-01	0.8485E+00	0.2810E-01	-0.9251E-01	-0.3809E-01
21	-0.8147E+00	-0.2048E+00	0.1179E+01	0.1891E-01	-0.9004E-01	-0.3837E-01
9009	0.4910E+00	-0.2086E+00	0.1027E+01	-0.2668E-01	-0.7831E-01	-0.2136E-01
9010	0.7154E+00	-0.2120E+00	-0.4883E+00	-0.3639E-01	-0.6657E-01	0.9481E-02
22	0.1233E+00	-0.2152E+00	-0.1162E+01	0.9259E-02	-0.5484E-01	0.1050E-01
23	0.6079E-01	-0.2159E+00	-0.1026E+01	0.2263E-01	-0.5235E-01	0.3439E-02
24	0.1174E+00	-0.2170E+00	-0.4785E+00	0.4190E-01	-0.4756E-01	-0.8769E-02
9011	0.5254E+00	-0.2191E+00	0.1024E+01	0.3698E-02	-0.3779E-01	-0.1047E-01
9012	0.6103E+00	-0.2210E+00	0.1524E+01	-0.1076E-01	-0.2802E-01	0.6772E-02
25	0.1253E+00	-0.2227E+00	0.4191E+00	-0.4811E-01	-0.1825E-01	0.1924E-01
26	-0.6055E-01	-0.2231E+00	-0.5492E-01	-0.5056E-01	-0.1546E-01	0.1945E-01
9013	-0.5825E+00	-0.2246E+00	-0.1526E+01	-0.2341E-01	-0.5096E-02	0.6283E-02
9014	-0.4238E+00	-0.2258E+00	-0.1406E+01	0.2612E-01	0.5273E-02	-0.1395E-01
27	0.1966E+00	-0.2268E+00	-0.2871E+00	0.2186E-01	0.1564E-01	-0.1613E-01
28	0.3744E+00	-0.2271E+00	-0.1428E+00	-0.3006E-02	0.1952E-01	-0.1006E-01
29	0.4577E+00	-0.2274E+00	-0.5795E+00	-0.3455E-01	0.2537E-01	0.1918E-02
9015	0.5508E-01	-0.2278E+00	-0.1864E+01	-0.1910E-01	0.3630E-01	0.1672E-01
9016	-0.5627E+00	-0.2278E+00	-0.1599E+01	0.2960E-01	0.4723E-01	0.1289E-01
30	-0.8608E+00	-0.2276E+00	-0.4841E+00	0.1036E-01	0.5816E-01	0.5267E-02
31	-0.8659E+00	-0.2276E+00	-0.4744E+00	0.8258E-02	0.5846E-01	0.5246E-02
32	-0.8147E+00	-0.2281E+00	-0.4667E+00	-0.4002E-02	0.5931E-01	0.5311E-02
35	-0.6619E+00	-0.1994E+00	-0.4756E+00	-0.1713E-01	0.6004E-01	0.5616E-02
37	-0.1540E+00	0.3120E-01	-0.4749E+00	-0.3725E-01	0.5965E-01	0.6785E-02
9017	0.1420E+01	0.1835E+01	-0.4717E+00	-0.5364E-01	0.2927E-01	0.1127E-01
9018	0.1523E+01	0.2633E+01	-0.4680E+00	0.1264E-01	-0.2183E-01	0.1576E-01
38	0.3800E+00	0.1043E+01	-0.4638E+00	0.7642E-01	-0.3754E-01	0.2025E-01
39	0.2797E-01	0.1985E+00	-0.4624E+00	0.8437E-01	-0.2846E-01	0.2169E-01
9019	-0.3300E+00	-0.2332E+01	-0.4570E+00	0.4668E-01	0.4049E-02	0.2641E-01
40	0.5110E-02	-0.2435E+01	-0.4511E+00	-0.4016E-01	0.9686E-02	0.3114E-01
41	0.2334E-01	-0.5337E+00	-0.4456E+00	-0.7546E-01	-0.1292E-01	0.3522E-01
43	-0.4277E-01	-0.1200E+00	-0.3666E+00	-0.7232E-01	-0.2306E-01	0.3446E-01
44	-0.4274E-01	-0.7016E-01	-0.3316E+00	-0.7141E-01	-0.2339E-01	0.3397E-01
45	-0.4265E-01	0.5652E-01	-0.2405E+00	-0.6900E-01	-0.2176E-01	0.3225E-01
9020	-0.4192E-01	0.7074E+00	0.7875E-01	-0.5095E-01	-0.3161E-02	0.1079E-01
46	-0.4117E-01	0.6131E+00	0.8236E-01	-0.3290E-01	-0.2489E-05	-0.1672E-01
47	-0.4109E-01	0.5588E+00	0.8300E-01	-0.3100E-01	-0.6338E-03	-0.1936E-01
91	0.1720E-01	0.5589E+00	-0.1090E-01	-0.3186E-01	-0.1024E-02	-0.1947E-01
92	0.2365E+00	0.5599E+00	-0.3960E+00	-0.3568E-01	-0.3830E-02	-0.1899E-01
93	0.2865E+00	0.6360E+00	-0.5320E+00	-0.3517E-01	-0.6017E-02	-0.1708E-01
94	0.2657E+00	0.8091E+00	-0.5321E+00	-0.3366E-01	-0.6916E-02	-0.1620E-01

95	0.2274E+00	0.9698E+00	-0.5322E+00	-0.2949E-01	-0.8593E-02	-0.1484E-01
96	0.1797E+00	0.1104E+01	-0.5321E+00	-0.2394E-01	-0.1041E-01	-0.1348E-01
97	0.1771E+00	0.1110E+01	-0.5321E+00	-0.2365E-01	-0.1050E-01	-0.1342E-01
98	0.8626E-01	0.1182E+01	-0.6741E+00	-0.1050E-01	-0.1351E-01	-0.1179E-01
100	0.3543E-01	0.1182E+01	-0.4397E+00	-0.4559E-02	-0.1552E-01	-0.1076E-01
101	0.4204E-02	0.1182E+01	-0.4320E+00	-0.3732E-03	-0.1687E-01	-0.1002E-01
102	-0.3125E-01	0.1182E+01	-0.4327E+00	0.1840E-02	-0.1661E-01	-0.9053E-02
113	-0.1150E+00	0.1139E+01	-0.4327E+00	0.1684E-01	-0.2409E-01	-0.1105E-01
114	-0.2291E+00	0.1043E+01	-0.4332E+00	0.2609E-01	-0.2906E-01	-0.1200E-01
115	-0.3611E+00	0.9228E+00	-0.4337E+00	0.2675E-01	-0.3275E-01	-0.1296E-01
116	-0.5796E+00	0.7939E+00	-0.4344E+00	0.8465E-02	-0.3677E-01	-0.1436E-01
118	-0.6313E+00	0.7980E+00	-0.4617E+00	-0.2442E-01	-0.3929E-01	-0.1518E-01
9023	-0.1185E+00	0.7927E+00	-0.2532E+01	-0.6750E-01	-0.5664E-01	-0.2012E-01
120	0.4436E+00	0.7857E+00	-0.2975E+01	0.3220E-01	-0.7398E-01	-0.1715E-01
122	0.3109E+00	0.6757E+00	-0.2881E+01	0.5465E-01	-0.7657E-01	-0.1529E-01
124	-0.1747E-01	0.4243E+00	-0.2881E+01	0.5885E-01	-0.7838E-01	-0.1362E-01
125	-0.8152E+00	-0.6906E-02	-0.2879E+01	0.9288E-02	-0.7694E-01	-0.9642E-02
127	-0.1003E+01	0.1759E-01	-0.2815E+01	-0.5014E-01	-0.7247E-01	-0.7231E-02
129	-0.9000E+00	0.1038E-01	-0.1756E+01	-0.7836E-01	-0.4273E-01	0.2022E-01
9024	-0.3624E+00	0.5191E-02	0.2791E+00	0.1170E-01	-0.2136E-01	0.3112E-01
130	-0.1821E-07	0.1135E-06	0.4171E-07	0.4723E-08	-0.1213E-08	0.3983E-08
48	-0.4105E-01	0.4965E+00	0.8522E-01	-0.2667E-01	-0.7373E-03	-0.2102E-01
49	-0.4099E-01	0.3868E+00	0.8913E-01	-0.1945E-01	-0.6952E-03	-0.2130E-01
50	-0.4092E-01	0.2836E+00	0.9216E-01	-0.1223E-01	-0.4661E-03	-0.1810E-01
51	-0.4089E-01	0.2567E+00	0.9282E-01	-0.1007E-01	-0.3765E-03	-0.1639E-01
52	-0.4061E-01	0.1863E+00	0.9392E-01	-0.2130E-02	0.2375E-04	-0.7176E-02
53	-0.4042E-01	0.5079E+00	0.6877E-01	0.3288E-01	0.2060E-02	0.2798E-01
54	-0.3980E-01	0.1753E+01	-0.4041E-01	0.8450E-01	0.3490E-02	0.3381E-01
55	-0.3978E-01	0.1779E+01	-0.4317E-01	0.8558E-01	0.3473E-02	0.3346E-01
56	-0.2996E-01	0.1551E+01	-0.5528E-01	0.9555E-01	0.1464E-02	0.2924E-01
57	-0.2727E-01	0.1334E+01	-0.5536E-01	0.9755E-01	0.7131E-03	0.2843E-01
58	-0.2661E-01	0.1136E+01	-0.5543E-01	0.9904E-01	0.6946E-05	0.2771E-01
59	-0.2821E-01	0.8355E+00	-0.5554E-01	0.1006E+00	-0.9986E-03	0.2662E-01
103	-0.2833E-01	0.7702E+00	-0.6327E-01	0.1001E+00	-0.4209E-02	-0.3662E-03
104	-0.2882E-01	0.9838E+00	-0.1270E+00	0.9810E-01	-0.6593E-02	-0.2144E-01
105	-0.2898E-01	0.1020E+01	-0.1434E+00	0.9745E-01	-0.4010E-02	-0.4104E-03
106	-0.2913E-01	0.9840E+00	-0.1510E+00	0.9679E-01	-0.1274E-02	0.2340E-01
107	-0.2969E-01	0.5044E+00	-0.1602E+00	0.9426E-01	-0.4367E-02	0.3662E-01
109	-0.3921E-01	0.3148E+00	-0.1685E+00	0.9357E-01	-0.6818E-02	0.2066E-01
111	-0.5965E-01	0.1648E-01	-0.1684E+00	0.8047E-01	-0.3241E-02	-0.7986E-02
112	-0.6170E-01	-0.9149E-01	-0.1684E+00	0.7097E-01	0.1099E-02	-0.2001E-01
60	-0.3257E-01	0.5309E+00	-0.5565E-01	0.1014E+00	-0.1925E-02	0.2615E-01
61	-0.3973E-01	0.2255E+00	-0.5575E-01	0.1012E+00	-0.2868E-02	0.2567E-01
62	-0.4045E-01	0.2001E+00	-0.5576E-01	0.1011E+00	-0.2947E-02	0.2563E-01
63	-0.5616E-01	-0.2661E+00	-0.7483E-01	0.9619E-01	-0.5808E-02	0.2245E-01
64	-0.5614E-01	-0.4620E+00	-0.1413E+00	0.8661E-01	-0.5092E-02	0.1014E-01
65	-0.5613E-01	-0.4914E+00	-0.1631E+00	0.8225E-01	-0.3099E-02	0.3221E-03
131	-0.5674E-01	-0.4915E+00	0.1044E+00	0.8262E-01	-0.3099E-02	0.3029E-03
132	-0.5801E-01	-0.4918E+00	0.3749E+00	0.8301E-01	-0.3099E-02	0.3632E-03
66	-0.5630E-01	-0.4669E+00	-0.1723E+00	0.7726E-01	-0.8339E-03	-0.9404E-02
67	-0.5645E-01	-0.4104E+00	-0.1721E+00	0.7303E-01	0.7103E-03	-0.1653E-01
68	-0.5655E-01	-0.3533E+00	-0.1684E+00	0.7003E-01	0.1581E-02	-0.2090E-01
69	-0.5667E-01	-0.2838E+00	-0.1620E+00	0.6661E-01	0.2442E-02	-0.2496E-01
70	-0.5676E-01	-0.2240E+00	-0.1557E+00	0.6403E-01	0.2946E-02	-0.2770E-01
71	-0.5697E-01	-0.7096E-01	-0.1385E+00	0.5832E-01	0.3617E-02	-0.3282E-01
133	0.4970E-01	-0.7098E-01	0.5131E-01	0.5858E-01	0.3617E-02	-0.3296E-01
134	0.1577E+00	-0.7102E-01	0.2430E+00	0.5863E-01	0.3617E-02	-0.3313E-01
72	-0.5704E-01	0.1041E+00	-0.1195E+00	0.5180E-01	0.3369E-02	-0.3622E-01
73	-0.5738E-01	0.9011E+00	-0.1744E+00	0.2262E-01	-0.1286E-01	-0.2865E-01
74	-0.5741E-01	0.9694E+00	-0.2117E+00	0.1957E-01	-0.1563E-01	-0.2559E-01
75	-0.5748E-01	0.1081E+01	-0.3014E+00	0.1305E-01	-0.1645E-01	-0.1871E-01
76	-0.5753E-01	0.1157E+01	-0.3962E+00	0.6533E-02	-0.1792E-01	-0.1181E-01
77	-0.5756E-01	0.1182E+01	-0.4407E+00	0.3277E-02	-0.1650E-01	-0.8714E-02
78	-0.5754E-01	0.1206E+01	-0.5006E+00	0.4005E-02	-0.1334E-01	-0.3138E-02
9021	-0.5743E-01	0.7654E+00	-0.5742E+00	0.9201E-02	0.7393E-02	0.3202E-01
79	-0.5727E-01	-0.4348E+00	-0.1897E+00	0.1440E-01	0.1599E-01	0.4638E-01
80	-0.5720E-01	-0.9324E+00	-0.2332E-01	0.1637E-01	0.1380E-01	0.4438E-01
81	-0.5718E-01	-0.1051E+01	0.1272E-01	0.1686E-01	0.1274E-01	0.4342E-01
82	-0.9253E-01	-0.1141E+01	0.5389E-01	0.1877E-01	0.7413E-02	0.3943E-01
9022	-0.1437E+00	-0.6108E+00	0.5446E-01	0.2193E-01	-0.2154E-02	0.2487E-01
83	-0.5124E-01	-0.9429E-01	0.5500E-01	0.1567E-01	-0.3315E-02	0.1031E-01
84	-0.4378E-01	-0.5902E-01	0.5505E-01	0.1434E-01	-0.2934E-02	0.8981E-02
85	-0.3805E-01	-0.3579E-01	0.5509E-01	0.1331E-01	-0.2609E-02	0.8033E-02
86	-0.8270E-02	0.8008E-02	0.1483E-01	0.5477E-02	-0.4316E-03	0.2995E-02
87	-0.1072E-07	-0.1658E-07	-0.1665E-07	0.3604E-08	-0.3728E-09	0.2327E-08

COUPLED MODE SHAPES (FOR SECONDARY MODE) MODE 28
FREQUENCY (HZ.) = 23.62509

MODAL DISP AT PRIMARY SYSTEM CONNETING DOF

DOF #	DISPLACEMENT
3041	0.1173E-04
3042	0.0000E+00
3043	-0.3853E-05
3061	0.9184E-05
3063	-0.1295E-04
3072	0.0000E+00
3081	-0.9188E-05
3103	-0.4662E-04
3121	-0.8502E-04
3122	0.0000E+00
3123	-0.6083E-04
3091	-0.2054E-04
3092	0.0000E+00
3093	-0.2888E-04

MODAL DISPLACEMENTS AT SECONDARY SYSTEM DOF

NODE	DX	DY	DZ	ROT-X	ROT-Y	ROT-Z
1	0.8104E-07	0.1968E-07	0.2869E-07	-0.4285E-08	-0.1839E-07	0.1393E-08
2	0.4233E-01	-0.7603E-02	0.4191E-01	-0.5651E-02	-0.1591E-01	0.1792E-02
3	0.1878E+00	-0.4080E-01	0.4395E+00	-0.2316E-01	-0.3515E-01	0.1046E-02
4	0.1903E+00	-0.2296E+00	0.1513E+01	-0.5626E-01	-0.4154E-01	-0.1911E-01
5	0.1815E+00	-0.6018E+00	0.2052E+01	-0.7290E-01	-0.3927E-01	-0.3791E-01
9001	0.2127E+00	-0.6782E+00	0.2088E+01	-0.7546E-01	-0.3856E-01	-0.4390E-01
9002	0.2778E+00	-0.7423E+00	0.2034E+01	-0.7817E-01	-0.3779E-01	-0.4977E-01
6	0.3771E+00	-0.7683E+00	0.1903E+01	-0.8150E-01	-0.3734E-01	-0.5512E-01
7	0.5055E+00	-0.7683E+00	0.1717E+01	-0.8334E-01	-0.3714E-01	-0.5796E-01
9003	0.2620E-01	-0.7664E+00	-0.1291E+01	-0.6332E-01	-0.3398E-01	-0.3417E-01
9004	0.2324E-01	-0.7636E+00	-0.2207E+01	0.1776E-01	-0.3078E-01	0.4744E-01
9	0.1177E+00	-0.7599E+00	-0.4404E+00	0.6092E-01	-0.2758E-01	0.4697E-01
10	-0.1409E+00	-0.7590E+00	-0.5765E-01	0.5780E-01	-0.2702E-01	0.3452E-01
9005	-0.4360E+00	-0.7542E+00	0.1213E+01	0.1834E-01	-0.2430E-01	-0.1092E-01
9006	0.1917E+00	-0.7487E+00	0.1003E+01	-0.2955E-01	-0.2158E-01	-0.2189E-01
11	0.5392E+00	-0.7425E+00	-0.3295E+00	-0.4743E-01	-0.1886E-01	0.5850E-02
12	0.3886E+00	-0.7402E+00	-0.8218E+00	-0.4308E-01	-0.1793E-01	0.2282E-01
9007	0.3399E+00	-0.7262E+00	-0.8918E+00	-0.4080E-01	-0.1793E-01	0.2886E-01
9008	0.2961E+00	-0.6812E+00	-0.9219E+00	-0.3862E-01	-0.1820E-01	0.3409E-01
13	0.2779E+00	-0.6115E+00	-0.9068E+00	-0.3666E-01	-0.1847E-01	0.3775E-01
14	0.2780E+00	-0.5025E+00	-0.8560E+00	-0.3398E-01	-0.1872E-01	0.3878E-01
15	0.2780E+00	-0.2731E+00	-0.7410E+00	-0.2814E-01	-0.1985E-01	0.3373E-01
16	0.2781E+00	0.4485E-01	-0.4399E+00	-0.1457E-01	-0.2316E-01	0.1296E-01
17	0.2519E+00	0.8366E-01	-0.3770E+00	-0.1091E-01	-0.2426E-01	0.6151E-02
18	0.1297E+00	0.1351E+00	-0.2548E+00	-0.5966E-02	-0.2551E-01	-0.2381E-02
19	-0.5217E-01	0.1136E+00	-0.7276E-01	-0.3014E-02	-0.2678E-01	-0.1277E-01
20	-0.5504E+00	-0.2744E+00	0.4258E+00	-0.2880E-02	-0.2663E-01	-0.2999E-01
21	-0.5016E+00	-0.3469E+00	0.4791E+00	-0.5407E-02	-0.2542E-01	-0.3217E-01
9009	0.6573E+00	-0.3475E+00	0.8959E-01	-0.1216E-01	-0.2094E-01	-0.1855E-01
9010	0.7574E+00	-0.3476E+00	-0.3097E+00	-0.4767E-02	-0.1647E-01	0.1240E-01
22	0.1161E+00	-0.3471E+00	-0.2123E+00	0.8729E-02	-0.1199E-01	0.8927E-02
23	0.7422E-01	-0.3470E+00	-0.1289E+00	0.1071E-01	-0.1104E-01	0.9408E-04
24	0.2083E+00	-0.3465E+00	0.6322E-01	0.1205E-01	-0.9213E-02	-0.1430E-01
9011	0.7725E+00	-0.3453E+00	0.3764E+00	0.4411E-02	-0.5486E-02	-0.1264E-01
9012	0.8003E+00	-0.3437E+00	0.2998E+00	-0.8541E-02	-0.1758E-02	0.1216E-01
25	0.7017E-01	-0.3418E+00	-0.9616E-01	-0.1252E-01	0.1969E-02	0.2689E-01
26	-0.1843E+00	-0.3412E+00	-0.2090E+00	-0.1097E-01	0.3030E-02	0.2607E-01
9013	-0.8223E+00	-0.3387E+00	-0.4165E+00	0.5625E-03	0.6986E-02	0.5348E-02
9014	-0.4951E+00	-0.3358E+00	-0.2028E+00	0.9181E-02	0.1094E-01	-0.2125E-01
27	0.3659E+00	-0.3325E+00	0.1914E-01	-0.7434E-03	0.1490E-01	-0.2047E-01
28	0.5786E+00	-0.3312E+00	-0.5072E-01	-0.1049E-01	0.1636E-01	-0.1062E-01
29	0.6227E+00	-0.3290E+00	-0.3841E+00	-0.1998E-01	0.1861E-01	0.6289E-02
9015	-0.9953E-02	-0.3245E+00	-0.9741E+00	-0.5435E-02	0.2278E-01	0.2233E-01
9016	-0.6746E+00	-0.3197E+00	-0.7028E+00	0.1623E-01	0.2695E-01	0.8101E-02
30	-0.4921E+00	-0.3144E+00	-0.2812E+00	-0.4557E-02	0.3112E-01	-0.1616E-01
31	-0.4757E+00	-0.3143E+00	-0.2863E+00	-0.5987E-02	0.3123E-01	-0.1667E-01
32	-0.3933E+00	-0.3014E+00	-0.3122E+00	-0.1387E-01	0.3179E-01	-0.1913E-01
35	-0.2864E+00	-0.2533E+00	-0.3304E+00	-0.2034E-01	0.3220E-01	-0.2095E-01
37	-0.1572E-01	-0.5983E-01	-0.3306E+00	-0.2179E-01	0.3152E-01	-0.2563E-01
9017	0.7862E+00	0.3253E+00	-0.3280E+00	-0.2062E-02	0.1381E-01	-0.4162E-01
9018	0.7844E+00	0.1434E+00	-0.3258E+00	0.1105E-01	-0.1284E-01	-0.6160E-01
38	0.1794E+00	-0.2253E+00	-0.3232E+00	0.8512E-02	-0.1817E-01	-0.7958E-01
39	0.1789E-01	-0.2923E+00	-0.3223E+00	0.4096E-02	-0.1194E-01	-0.8534E-01
9019	-0.3029E-01	-0.1627E+00	-0.3189E+00	-0.9467E-02	0.5724E-02	-0.1043E+00
40	0.1839E+00	0.2388E+00	-0.3151E+00	-0.1279E-01	0.3234E-02	-0.1232E+00
41	0.6818E-01	0.5506E+00	-0.3116E+00	-0.7830E-02	-0.1282E-01	-0.1395E+00
43	0.9663E-02	0.4382E-01	-0.2457E+00	-0.5500E-02	-0.1847E-01	-0.1436E+00
44	0.9674E-02	-0.1634E+00	-0.2181E+00	-0.5133E-02	-0.1854E-01	-0.1441E+00
45	0.9703E-02	-0.7171E+00	-0.1468E+00	-0.4161E-02	-0.1712E-01	-0.1442E+00
9020	0.9915E-02	-0.4076E-01	0.6941E-01	0.3115E-02	0.1755E-02	-0.6768E-01
46	0.1012E-01	-0.3844E+01	-0.2276E+00	0.1039E-01	0.1853E-01	0.8852E-01
47	0.1014E-01	-0.3552E+01	-0.2856E+00	0.2116E-01	0.2014E-01	0.1061E+00
91	-0.3073E+00	-0.3553E+01	-0.2468E+00	0.1770E-01	0.2232E-01	0.1049E+00
92	-0.1432E+01	-0.3559E+01	0.2064E+00	0.6164E-01	0.3801E-01	0.9495E-01
93	-0.1607E+01	-0.3879E+01	0.4912E+00	0.9063E-01	0.4878E-01	0.8533E-01
94	-0.1443E+01	-0.4184E+01	0.4913E+00	0.9088E-01	0.5214E-01	0.8145E-01
95	-0.1170E+01	-0.4626E+01	0.4915E+00	0.7864E-01	0.5699E-01	0.7546E-01
96	-0.8731E+00	-0.4970E+01	0.4915E+00	0.5536E-01	0.6031E-01	0.6947E-01
97	-0.8579E+00	-0.4984E+01	0.4915E+00	0.5401E-01	0.6041E-01	0.6917E-01
98	-0.3881E+00	-0.5105E+01	0.4389E+00	-0.1079E-01	0.6066E-01	0.5930E-01
100	-0.1343E+00	-0.5106E+01	0.5516E+00	-0.3934E-01	0.6054E-01	0.5223E-01
101	0.1512E-01	-0.5107E+01	0.6981E+00	-0.5843E-01	0.6046E-01	0.4628E-01
102	0.1727E+00	-0.5108E+01	0.9332E+00	-0.6880E-01	0.5245E-01	0.3737E-01
113	0.4520E+00	-0.4591E+01	0.7001E+00	-0.1217E+00	0.9046E-01	0.5086E-01
114	0.8863E+00	-0.3984E+01	0.7019E+00	-0.1542E+00	0.1118E+00	0.5512E-01
115	0.1359E+01	-0.3301E+01	0.7035E+00	-0.1532E+00	0.1283E+00	0.5938E-01
116	0.2265E+01	-0.2509E+01	0.7057E+00	-0.1769E+00	0.1475E+00	0.6565E-01
118	0.2457E+01	-0.2434E+01	0.7203E+00	0.5614E-01	0.1605E+00	0.6902E-01
9023	0.1995E+00	-0.2410E+01	0.7489E+01	0.3731E+00	0.2514E+00	0.8483E-01
120	-0.2067E+01	-0.2388E+01	0.1098E+02	-0.7842E-01	0.3422E+00	0.6853E-01
122	-0.1447E+01	-0.2061E+01	0.1071E+02	-0.1677E+00	0.3555E+00	0.6112E-01
124	0.7881E-01	-0.1272E+01	0.1071E+02	-0.1866E+00	0.3646E+00	0.5488E-01
125	0.3794E+01	0.6360E-01	0.1071E+02	-0.1483E-01	0.3586E+00	0.3998E-01
127	0.4663E+01	-0.6431E-01	0.1044E+02	0.1970E+00	0.3379E+00	0.3018E-01
129	0.4156E+01	-0.3795E-01	0.6383E+00	0.2877E+00	0.1992E+00	-0.9341E-01
9024	0.1674E+01	-0.1898E-01	-0.1026E+01	-0.4321E-01	0.9962E-01	-0.1437E+00
130	0.8415E-07	-0.4150E-06	-0.1534E-06	-0.1738E-07	0.5658E-08	-0.1840E-07
48	0.1019E-01	-0.3198E+01	-0.3440E+00	-0.4764E-02	0.1835E-01	0.1225E+00
49	0.1027E-01	-0.2532E+01	-0.4275E+00	-0.3130E-01	0.1460E-01	0.1344E+00
50	0.1036E-01	-0.1855E+01	-0.4899E+00	-0.5784E-01	0.1026E-01	0.1246E+00
51	0.1038E-01	-0.1667E+01	-0.5044E+00	-0.6580E-01	0.8925E-02	0.1170E+00
52	0.1047E-01	-0.1117E+01	-0.5399E+00	-0.9496E-01	0.3936E-02	0.7044E-01
53	0.1085E-01	-0.2045E+01	-0.4026E+00	-0.2237E+00	-0.1350E-01	-0.1173E+00
54	0.1140E-01	-0.7495E+01	0.1726E+00	-0.4134E+00	-0.1162E-01	-0.1423E+00
55	0.1142E-01	-0.7601E+01	0.1818E+00	-0.4173E+00	-0.1104E-01	-0.1401E+00
56	-0.4143E-03	-0.6427E+01	0.2103E+00	-0.4556E+00	0.2961E-02	-0.1126E+00
57	0.1033E-01	-0.5391E+01	0.2107E+00	-0.4632E+00	0.6424E-02	-0.1057E+00
58	0.2643E-01	-0.4457E+01	0.2111E+00	-0.4689E+00	0.9399E-02	-0.9960E-01

59	0.6142E-01	-0.3036E+01	0.2116E+00	-0.4753E+00	0.1363E-01	-0.9044E-01
103	0.6209E-01	-0.2864E+01	0.2807E+00	-0.4749E+00	0.2829E-01	0.4217E-01
104	0.6484E-01	-0.4340E+01	0.6458E+00	-0.4734E+00	0.3610E-01	0.1602E+00
105	0.6573E-01	-0.4695E+01	0.7356E+00	-0.4729E+00	0.2240E-01	0.6504E-01
106	0.6659E-01	-0.4718E+01	0.7800E+00	-0.4724E+00	0.8462E-02	-0.4556E-01
107	0.6988E-01	-0.3148E+01	0.8774E+00	-0.4705E+00	0.3084E-01	-0.1226E+00
109	0.1335E+00	-0.2285E+01	0.9335E+00	-0.4686E+00	0.4515E-01	-0.5448E-01
111	0.2703E+00	-0.7821E+00	0.9332E+00	-0.4092E+00	0.2379E-01	0.6858E-01
112	0.2889E+00	-0.2301E+00	0.9331E+00	-0.3653E+00	-0.1911E-02	0.1203E+00
60	0.1079E+00	-0.1599E+01	0.2121E+00	-0.4784E+00	0.1756E-01	-0.8419E-01
61	0.1665E+00	-0.1591E+00	0.2126E+00	-0.4779E+00	0.2165E-01	-0.7795E-01
62	0.1719E+00	-0.3940E-01	0.2126E+00	-0.4773E+00	0.2200E-01	-0.7743E-01
63	0.2749E+00	0.1985E+01	0.3307E+00	-0.4590E+00	0.3461E-01	-0.5513E-01
64	0.2747E+00	0.2333E+01	0.7188E+00	-0.4246E+00	0.3029E-01	0.2783E-02
65	0.2746E+00	0.2227E+01	0.8516E+00	-0.4089E+00	0.2037E-01	0.4442E-01
131	0.1288E+00	0.2227E+01	-0.4786E+00	-0.4108E+00	0.2037E-01	0.4468E-01
132	-0.1663E-01	0.2228E+01	-0.1823E+01	-0.4127E+00	0.2037E-01	0.4470E-01
66	0.2750E+00	0.1895E+01	0.9227E+00	-0.3893E+00	0.8856E-02	0.8364E-01
67	0.2753E+00	0.1475E+01	0.9407E+00	-0.3727E+00	0.4108E-03	0.1097E+00
68	0.2755E+00	0.1119E+01	0.9331E+00	-0.3609E+00	-0.4763E-02	0.1241E+00
69	0.2759E+00	0.7239E+00	0.9091E+00	-0.3471E+00	-0.1031E-01	0.1360E+00
70	0.2761E+00	0.4066E+00	0.8809E+00	-0.3368E+00	-0.1391E-01	0.1430E+00
71	0.2767E+00	-0.3432E+00	0.7927E+00	-0.3137E+00	-0.2013E-01	0.1525E+00
133	-0.2191E+00	-0.3433E+00	-0.2288E+00	-0.3152E+00	-0.2013E-01	0.1532E+00
134	-0.7209E+00	-0.3435E+00	-0.1260E+01	-0.3165E+00	-0.2013E-01	0.1540E+00
72	0.2767E+00	-0.1118E+01	0.6795E+00	-0.2855E+00	-0.2261E-01	0.1544E+00
73	0.2767E+00	-0.4153E+01	0.4940E+00	-0.1602E+00	0.2380E-01	0.9984E-01
74	0.2767E+00	-0.4388E+01	0.5695E+00	-0.1461E+00	0.3333E-01	0.8785E-01
75	0.2766E+00	-0.4766E+01	0.7783E+00	-0.1179E+00	0.4571E-01	0.6301E-01
76	0.2765E+00	-0.5019E+01	0.1027E+01	-0.8974E-01	0.4985E-01	0.4143E-01
77	0.2765E+00	-0.5108E+01	0.1154E+01	-0.7565E-01	0.4911E-01	0.3351E-01
78	0.2765E+00	-0.5200E+01	0.1332E+01	-0.7578E-01	0.3969E-01	0.1146E-01
9021	0.2764E+00	-0.3410E+01	0.1563E+01	-0.7666E-01	-0.2082E-01	-0.1305E+00
79	0.2761E+00	0.1520E+01	0.4753E+00	-0.7753E-01	-0.4512E-01	-0.1917E+00
80	0.2759E+00	0.3581E+01	0.7275E-02	-0.7787E-01	-0.3866E-01	-0.1841E+00
81	0.2758E+00	0.4072E+01	-0.9353E-01	-0.7795E-01	-0.3557E-01	-0.1802E+00
82	0.3735E+00	0.4428E+01	-0.2079E+00	-0.8085E-01	-0.2023E-01	-0.1642E+00
9022	0.4901E+00	0.2295E+01	-0.2095E+00	-0.8438E-01	0.7524E-02	-0.1036E+00
83	0.1917E+00	0.3436E+00	-0.2110E+00	-0.5873E-01	0.1049E-01	-0.4301E-01
84	0.1681E+00	0.2114E+00	-0.2111E+00	-0.5384E-01	0.9286E-02	-0.3749E-01
85	0.1531E+00	0.1242E+00	-0.2112E+00	-0.5007E-01	0.8266E-02	-0.3354E-01
86	0.3470E-01	-0.3384E-01	-0.5952E-01	-0.2124E-01	0.1558E-02	-0.1258E-01
87	0.3304E-07	0.5609E-07	0.4391E-07	-0.1455E-07	0.1945E-08	-0.9819E-08

COUPLED MODE SHAPES (FOR SECONDARY MODE) MODE 29
FREQUENCY (HZ.) = 24.18094

MODAL DISP AT PRIMARY SYSTEM CONNETING DOF

DOF #	DISPLACEMENT
3041	-0.6423E-04
3042	0.0000E+00
3043	0.2827E-05
3061	-0.1243E-03
3063	0.9501E-05
3072	0.0000E+00
3081	-0.1595E-03
3103	0.3421E-04
3121	-0.2000E-03
3122	0.0000E+00
3123	0.4463E-04
3091	-0.1676E-03
3092	0.0000E+00
3093	0.2119E-04

MODAL DISPLACEMENTS AT SECONDARY SYSTEM DOF

MODE	DX	DY	DZ	ROT-X	ROT-Y	ROT-Z
1	0.1376E-08	0.1406E-08	-0.2617E-08	0.6288E-09	0.9071E-09	0.2878E-09
2	-0.2134E-02	0.2146E-02	-0.2166E-02	0.6519E-03	0.8849E-03	0.2049E-03
3	-0.1109E-01	0.1384E-01	-0.2849E-01	0.2108E-02	0.2603E-02	0.4130E-03
4	-0.1104E-01	0.2088E-01	-0.1179E+00	0.4602E-02	0.3722E-02	-0.1017E-03
5	-0.1101E-01	0.1530E-01	-0.1675E+00	0.5857E-02	0.3684E-02	-0.7799E-03
9001	-0.1054E-01	0.1365E-01	-0.1714E+00	0.6048E-02	0.3651E-02	-0.9943E-03
9002	-0.9009E-02	0.1215E-01	-0.1679E+00	0.6266E-02	0.3610E-02	-0.1206E-02
6	-0.6536E-02	0.1150E-01	-0.1577E+00	0.6504E-02	0.3591E-02	-0.1404E-02
7	-0.3223E-02	0.1151E-01	-0.1429E+00	0.6646E-02	0.3591E-02	-0.1516E-02
9003	0.6047E-01	0.1153E-01	0.9649E-01	0.5044E-02	0.3587E-02	-0.1275E-02
9004	0.6525E-01	0.1153E-01	0.1704E+00	-0.1358E-02	0.3583E-02	0.1068E-02
9	0.1403E-02	0.1153E-01	0.3402E-01	-0.4647E-02	0.3579E-02	0.1789E-02
10	-0.9395E-02	0.1152E-01	0.4983E-02	-0.4351E-02	0.3578E-02	0.1584E-02
9005	-0.3832E-01	0.1149E-01	-0.8607E-01	-0.1109E-02	0.3575E-02	0.3560E-03
9006	-0.1976E-01	0.1144E-01	-0.5909E-01	0.2653E-02	0.3571E-02	-0.1211E-02
11	0.2606E-01	0.1139E-01	0.5825E-01	0.4298E-02	0.3568E-02	-0.1463E-02
12	0.4075E-01	0.1137E-01	0.1042E+00	0.4210E-02	0.3567E-02	-0.1247E-02
9007	0.4301E-01	0.1077E-01	0.1103E+00	0.4144E-02	0.3572E-02	-0.1154E-02
9008	0.4454E-01	0.9244E-02	0.1110E+00	0.4081E-02	0.3585E-02	-0.1050E-02
13	0.4506E-01	0.7370E-02	0.1063E+00	0.4025E-02	0.3597E-02	-0.9279E-03
14	0.4506E-01	0.4932E-02	0.9642E-01	0.3949E-02	0.3604E-02	-0.8178E-03
15	0.4505E-01	0.8404E-03	0.7475E-01	0.3784E-02	0.3611E-02	-0.5080E-03
16	0.4504E-01	0.2470E-03	0.2573E-01	0.3401E-02	0.3287E-02	0.4934E-03
17	0.4846E-01	-0.1541E-02	0.1731E-01	0.3268E-02	0.3019E-02	0.9455E-03
18	0.6233E-01	-0.1098E-01	0.3401E-02	0.3147E-02	0.2637E-02	0.1656E-02
19	0.7859E-01	-0.1677E-01	-0.1291E-01	0.2880E-02	0.2052E-02	0.2759E-02
20	0.1035E+00	0.2049E-01	-0.3803E-01	0.1725E-02	0.7983E-03	0.6121E-02
21	0.7905E-01	0.3420E-01	-0.3515E-01	0.9925E-03	0.4913E-03	0.7441E-02
9009	-0.2141E+00	0.3412E-01	-0.2658E-01	-0.1113E-02	-0.7744E-03	0.4738E-02

9010	-0.2210E+00	0.3398E-01	-0.2275E-01	0.4056E-03	-0.2040E-02	-0.4023E-02
22	-0.3142E-01	0.3380E-01	0.2355E-02	0.6504E-03	-0.3306E-02	-0.2157E-02
23	-0.2423E-01	0.3375E-01	0.7542E-02	0.5578E-03	-0.3574E-02	0.7245E-03
24	-0.7930E-01	0.3364E-01	0.1461E-01	0.2862E-03	-0.4091E-02	0.5247E-02
9011	-0.2705E+00	0.3340E-01	0.1370E-01	-0.3266E-03	-0.5145E-02	0.3886E-02
9012	-0.2587E+00	0.3313E-01	-0.3030E-02	-0.5566E-03	-0.6199E-02	-0.4831E-02
25	0.4588E-02	0.3281E-01	-0.1673E-01	-0.1649E-03	-0.7253E-02	-0.9190E-02
26	0.9004E-01	0.3272E-01	-0.1743E-01	0.2273E-04	-0.7553E-02	-0.8592E-02
9013	0.2809E+00	0.3234E-01	-0.6692E-02	0.4970E-03	-0.8671E-02	-0.7678E-03
9014	0.1356E+00	0.3192E-01	0.9919E-02	0.2932E-03	-0.9709E-02	0.7815E-02
27	-0.1539E+00	0.3146E-01	0.7243E-02	-0.5009E-03	-0.1091E-01	0.6140E-02
28	-0.2118E+00	0.3126E-01	-0.1782E-02	-0.8635E-03	-0.1133E-01	0.2347E-02
29	-0.1957E+00	0.3099E-01	-0.2217E-01	-0.1031E-02	-0.1196E-01	-0.3777E-02
9015	0.6512E-01	0.3041E-01	-0.4294E-01	0.2013E-03	-0.1314E-01	-0.8021E-02
9016	0.2737E+00	0.2979E-01	-0.3299E-02	0.1747E-02	-0.1432E-01	-0.1675E-02
30	0.1891E+00	0.2913E-01	0.7391E-01	0.2179E-02	-0.1549E-01	0.4764E-02
31	0.1842E+00	0.2911E-01	0.7609E-01	0.2175E-02	-0.1553E-01	0.4819E-02
32	0.1519E+00	0.2667E-01	0.8186E-01	0.2115E-02	-0.1562E-01	0.5008E-02
35	0.1068E+00	0.2116E-01	0.8417E-01	0.1823E-02	-0.1562E-01	0.5064E-02
37	-0.2356E-01	0.1034E-01	0.8416E-01	0.2789E-03	-0.1505E-01	0.5161E-02
9017	-0.3901E+00	0.9735E-01	0.8598E-01	-0.3969E-02	-0.5669E-02	0.5534E-02
9018	-0.3572E+00	0.1863E+00	0.8571E-01	-0.5262E-03	0.6877E-02	0.5908E-02
38	-0.7049E-01	0.1108E+00	0.8336E-01	0.4878E-02	0.7499E-02	0.6261E-02
39	-0.1045E-01	0.5330E-01	0.8323E-01	0.6078E-02	0.3552E-02	0.6401E-02
9019	-0.8956E-01	-0.1564E+00	0.8266E-01	0.4654E-02	-0.5667E-02	0.6794E-02
40	-0.2581E+00	-0.2033E+00	0.8200E-01	-0.2209E-02	-0.2429E-02	0.7186E-02
41	-0.2260E+00	-0.6524E-01	0.8135E-01	-0.6228E-02	0.4476E-02	0.7526E-02
43	-0.2060E+00	-0.1286E-01	0.5926E-01	-0.6491E-02	0.6303E-02	0.7530E-02
44	-0.2060E+00	-0.1999E-02	0.4993E-01	-0.6526E-02	0.6405E-02	0.7495E-02
45	-0.2060E+00	0.2639E-01	0.2495E-01	-0.6612E-02	0.6373E-02	0.7340E-02
9020	-0.2055E+00	0.1993E+00	-0.1191E+00	-0.7260E-02	0.3318E-02	0.4170E-02
46	-0.2049E+00	0.2579E+00	-0.1584E+00	-0.7908E-02	-0.3838E-03	0.3050E-03
47	-0.2048E+00	0.2583E+00	-0.1567E+00	-0.7976E-02	-0.7015E-03	0.3765E-04
91	-0.2067E+00	0.2585E+00	-0.1818E+00	-0.9529E-02	-0.6105E-03	0.1617E-02
92	-0.2723E+00	0.2595E+00	-0.3547E+00	-0.2160E-01	0.4499E-04	0.8077E-02
93	-0.3034E+00	0.3702E+00	-0.4528E+00	-0.3264E-01	0.1333E-02	0.8369E-02
94	-0.2980E+00	0.4811E+00	-0.4527E+00	-0.3459E-01	0.2607E-02	0.8148E-02
95	-0.2787E+00	0.6592E+00	-0.4526E+00	-0.3523E-01	0.5864E-02	0.7806E-02
96	-0.2393E+00	0.8316E+00	-0.4524E+00	-0.3370E-01	0.1042E-01	0.7465E-02
97	-0.2367E+00	0.8420E+00	-0.4524E+00	-0.3358E-01	0.1067E-01	0.7448E-02
98	-0.1524E+00	0.9605E+00	-0.3415E+00	-0.2614E-01	0.2094E-01	0.8617E-02
100	-0.1127E+00	0.9607E+00	-0.2328E+00	-0.2147E-01	0.2781E-01	0.9465E-02
101	-0.8339E-01	0.9608E+00	-0.1732E+00	-0.1768E-01	0.3238E-01	0.1045E-01
102	-0.5292E-01	0.9611E+00	-0.1097E+00	-0.1481E-01	0.2017E-01	0.6560E-02
113	0.2917E+00	0.1031E+01	-0.1737E+00	-0.3547E-02	0.1113E+00	0.5559E-01
114	0.9185E+00	0.1025E+01	-0.1742E+00	0.4269E-02	0.1818E+00	0.9762E-01
115	0.1818E+01	0.9946E+00	-0.1747E+00	0.4846E-02	0.2510E+00	0.1396E+00
116	0.3729E+01	0.1002E+01	-0.1753E+00	-0.1136E-01	0.3548E+00	0.2015E+00
118	0.4106E+01	0.1049E+01	-0.2420E+00	-0.4056E-01	0.4421E+00	0.2352E+00
9023	-0.4045E+01	0.1043E+01	-0.2121E+01	-0.6631E-01	0.1082E+01	0.2882E+00
120	-0.1099E+02	0.1036E+01	-0.2751E+01	0.4399E-01	0.1722E+01	0.1973E+00
122	-0.7420E+01	0.8987E+00	-0.2629E+01	0.6759E-01	0.1811E+01	0.1783E+00
124	0.3917E+00	0.5920E+00	-0.2629E+01	0.7220E-01	0.1872E+01	0.1694E+00
125	0.1957E+02	0.2284E-01	-0.2627E+01	0.2260E-01	0.1856E+01	0.1485E+00
127	0.2396E+02	0.1820E-01	-0.2591E+01	-0.3798E-01	0.1752E+01	0.1196E+00
129	0.2125E+02	0.1074E-01	-0.1716E+00	-0.7434E-01	0.1033E+01	-0.4715E+00
9024	0.8594E+01	0.5372E-02	0.2625E+00	0.1090E-01	0.5164E+00	-0.7362E+00
130	0.4356E-06	0.1175E-06	0.3947E-07	0.4456E-08	0.2933E-07	-0.9466E-07
48	-0.2046E+00	0.2518E+00	-0.1540E+00	-0.4262E-02	-0.1162E-02	-0.3112E-02
49	-0.2042E+00	0.2256E+00	-0.1462E+00	0.1928E-02	-0.2040E-02	-0.5768E-02
50	-0.2037E+00	0.1942E+00	-0.1336E+00	0.8118E-02	-0.2915E-02	-0.4963E-02
51	-0.2036E+00	0.1866E+00	-0.1290E+00	0.9974E-02	-0.3150E-02	-0.4005E-02
52	-0.2030E+00	0.1766E+00	-0.1094E+00	0.1678E-01	-0.3887E-02	0.2153E-02
53	-0.2006E+00	0.5624E+00	-0.6117E-02	0.4680E-01	-0.3468E-02	0.2592E-01
54	-0.1967E+00	0.1557E+01	-0.6207E-01	0.9105E-01	0.9080E-02	0.2250E-01
55	-0.1966E+00	0.1569E+01	-0.6921E-01	0.9198E-01	0.9478E-02	0.2208E-01
56	-0.1513E+00	0.1278E+01	-0.1118E+00	0.1005E+00	0.1134E-01	0.1722E-01
57	-0.1253E+00	0.1050E+01	-0.1119E+00	0.1021E+00	0.1040E-01	0.1617E-01
58	-0.1057E+00	0.8438E+00	-0.1120E+00	0.1033E+00	0.9232E-02	0.1524E-01
59	-0.8060E-01	0.5312E+00	-0.1121E+00	0.1043E+00	0.7440E-02	0.1384E-01
103	-0.8059E-01	0.5100E+00	-0.9586E-01	0.1034E+00	-0.1668E-02	-0.1042E-01
104	-0.8053E-01	0.7986E+00	-0.2012E+00	0.9934E-01	-0.1360E-01	-0.3004E-01
105	-0.8051E-01	0.8640E+00	-0.2362E+00	0.9805E-01	-0.8936E-02	-0.1140E-01
106	-0.8046E-01	0.8648E+00	-0.2535E+00	0.9675E-01	-0.2706E-02	0.9865E-02
107	-0.8024E-01	0.5642E+00	-0.1936E+00	0.9178E-01	0.9294E-02	0.2135E-01
109	-0.6658E-01	0.4011E+00	-0.1797E+00	0.9065E-01	0.8521E-02	0.6823E-02
111	-0.4421E-01	0.1125E+00	-0.1796E+00	0.7782E-01	0.3873E-02	-0.1935E-01
112	-0.4073E-01	0.8040E-02	-0.1796E+00	0.6866E-01	0.7131E-03	-0.3034E-01
60	-0.6074E-01	0.2164E+00	-0.1122E+00	0.1046E+00	0.5760E-02	0.1298E-01
61	-0.4597E-01	-0.9802E-01	-0.1123E+00	0.1040E+00	0.4042E-02	0.1212E-01
62	-0.4498E-01	-0.1241E+00	-0.1123E+00	0.1039E+00	0.3897E-02	0.1205E-01
63	-0.3891E-01	-0.5458E+00	-0.1126E+00	0.9791E-01	-0.1806E-02	0.8000E-02
64	-0.3886E-01	-0.5810E+00	-0.1499E+00	0.8702E-01	-0.3677E-02	-0.4263E-02
65	-0.3884E-01	-0.5392E+00	-0.1672E+00	0.8207E-01	-0.2709E-02	-0.1356E-01
131	0.5342E-02	-0.5394E+00	0.9973E-01	0.8247E-01	-0.2705E-02	-0.1362E-01
132	0.4990E-01	-0.5397E+00	0.3698E+00	0.8287E-01	-0.2709E-02	-0.1368E-01
66	-0.3882E-01	-0.4460E+00	-0.1770E+00	0.7623E-01	-0.1282E-02	-0.2252E-01
67	-0.3880E-01	-0.3358E+00	-0.1800E+00	0.7127E-01	-0.2326E-03	-0.2821E-01
68	-0.3878E-01	-0.2453E+00	-0.1796E+00	0.6777E-01	0.4087E-03	-0.3115E-01
69	-0.3876E-01	-0.1472E+00	-0.1775E+00	0.6385E-01	0.8395E-03	-0.3340E-01
70	-0.3874E-01	-0.6981E-01	-0.1752E+00	0.6091E-01	0.1084E-02	-0.3455E-01
71	-0.3871E-01	0.1082E+00	-0.1686E+00	0.5437E-01	0.1371E-02	-0.3544E-01
133	0.7635E-01	0.1082E+00	0.8637E-02	0.5464E-01	0.1371E-02	-0.3561E-01
134	0.1931E+00	0.1082E+00	0.1873E+00	0.5485E-01	0.1371E-02	-0.3582E-01
72	-0.3847E-01	0.2851E+00	-0.1615E+00	0.4638E-01	0.1447E-02	-0.3460E-01
73	-0.3741E-01	0.8924E+00	-0.1359E+00	0.1088E-01	0.4008E-03	-0.1548E-01
74	-0.3728E-01	0.9268E+00	-0.1363E+00	0.6887E-02	0.6022E-03	-0.1190E-01
75	-0.3704E-01	0.9681E+00	-0.1299E+00	-0.1098E-02	0.3758E-02	-0.4464E-02
76	-0.3678E-01	0.9715E+00	-0.9860E-01	-0.9084E-02	0.1046E-01	0.2384E-02
77	-0.3665E-01	0.9612E+00	-0.6824E-01	-0.1307E-01	0.1509E-01	0.5237E-02
78	-0.3668E-01	0.9373E+00	-0.1165E-01	-0.1714E-01	0.1319E-01	0.6915E-02

9021	-0.3683E-01	0.5485E+00	0.1895E+00	-0.5470E-02	0.1396E-02	0.2032E-01
79	-0.3695E-01	-0.1588E+00	0.1208E+00	0.1199E-02	-0.4719E-02	0.2646E-01
80	-0.3699E-01	-0.4415E+00	0.6778E-01	0.3733E-02	-0.4665E-02	0.2513E-01
81	-0.3700E-01	-0.5084E+00	0.5541E-01	0.4359E-02	-0.4405E-02	0.2456E-01
82	-0.2403E-01	-0.5764E+00	0.4068E-01	0.6367E-02	-0.2845E-02	0.2212E-01
9022	0.7158E-02	-0.3528E+00	0.4038E-01	0.1074E-01	0.1501E-04	0.1360E-01
83	-0.6049E-02	-0.7128E-01	0.4004E-01	0.9620E-02	0.5944E-03	0.5078E-02
84	-0.7398E-02	-0.4932E-01	0.4001E-01	0.9067E-02	0.5306E-03	0.4302E-02
85	-0.8260E-02	-0.3446E-01	0.3999E-01	0.8622E-02	0.4734E-03	0.3747E-02
86	-0.2139E-02	0.2063E-02	0.1396E-01	0.4463E-02	-0.5651E-05	0.9910E-03
87	0.2255E-08	-0.1015E-07	0.1161E-07	0.3616E-08	-0.7613E-09	0.4741E-09

COUPLED MODE SHAPES (FOR SECONDARY MODE) MODE 30
FREQUENCY (HZ.) = 25.31967

MODAL DISP AT PRIMARY SYSTEM CONNETING DOF

DOF #	DISPLACEMENT
3041	-0.3935E-04
3042	0.0000E+00
3043	0.2234E-04
3061	-0.9081E-04
3063	0.7506E-04
3072	0.0000E+00
3081	-0.1392E-03
3103	0.2702E-03
3121	-0.2541E-03
3122	0.0000E+00
3123	0.3526E-03
3091	-0.1581E-03
3092	0.0000E+00
3093	0.1674E-03

MODAL DISPLACEMENTS AT SECONDARY SYSTEM DOF

MODE	DX	DY	DZ	ROT-X	ROT-Y	ROT-Z
1	-0.5340E-07	-0.2829E-07	0.3132E-07	-0.8392E-08	-0.7349E-08	-0.4598E-08
2	0.1763E-01	-0.3012E-01	0.1832E-01	-0.8357E-02	-0.7939E-02	-0.3384E-02
3	0.1038E+00	-0.1899E+00	0.2831E+00	-0.2539E-01	-0.2772E-01	-0.5551E-02
4	0.1020E+00	-0.1887E+00	0.1281E+01	-0.5345E-01	-0.4241E-01	0.1028E-01
5	0.1011E+00	0.5674E-01	0.1845E+01	-0.6757E-01	-0.4238E-01	0.2764E-01
9001	0.8527E-01	0.1135E+00	0.1894E+01	-0.6971E-01	-0.4206E-01	0.3314E-01
9002	0.3541E-01	0.1625E+00	0.1853E+01	-0.7215E-01	-0.4167E-01	0.3853E-01
6	-0.4230E-01	0.1828E+00	0.1736E+01	-0.7482E-01	-0.4152E-01	0.4351E-01
7	-0.1441E+00	0.1827E+00	0.1565E+01	-0.7641E-01	-0.4158E-01	0.4623E-01
9003	-0.1916E+01	0.1816E+00	-0.1156E+01	-0.5583E-01	-0.4255E-01	0.3055E-01
9004	-0.1781E+01	0.1802E+00	-0.1899E+01	0.1617E-01	-0.4352E-01	-0.3591E-01
9	-0.1087E+00	0.1786E+00	-0.1705E+00	0.4633E-01	-0.4449E-01	-0.3302E-01
10	0.6544E-01	0.1783E+00	-0.9114E-01	0.3988E-01	-0.4466E-01	-0.2202E-01
9005	0.9640E-01	0.1764E+00	0.5166E+00	-0.6640E-03	-0.4548E-01	0.1506E-01
9006	-0.5668E+00	0.1744E+00	-0.9171E-02	-0.2905E-01	-0.4630E-01	0.2172E-01
11	-0.1048E+01	0.1722E+00	-0.1073E+01	-0.3518E-01	-0.4713E-01	0.7347E-02
12	-0.1094E+01	0.1714E+00	-0.1443E+01	-0.3388E-01	-0.4741E-01	0.1807E-02
9007	-0.1096E+01	0.1716E+00	-0.1483E+01	-0.3364E-01	-0.4747E-01	0.4672E-03
9008	-0.1095E+01	0.1710E+00	-0.1463E+01	-0.3354E-01	-0.4747E-01	-0.3724E-03
13	-0.1095E+01	0.1691E+00	-0.1391E+01	-0.3353E-01	-0.4732E-01	-0.5344E-01
14	-0.1095E+01	0.1672E+00	-0.1261E+01	-0.3351E-01	-0.4701E-01	-0.2830E-04
15	-0.1095E+01	0.1739E+00	-0.9620E+00	-0.3347E-01	-0.4532E-01	0.9615E-02
16	-0.1094E+01	0.2733E+00	-0.4212E+00	-0.3339E-01	-0.3184E-01	0.6682E-02
17	-0.1122E+01	0.3249E+00	-0.3469E+00	-0.3290E-01	-0.2319E-01	0.3649E-02
18	-0.1208E+01	0.4877E+00	-0.2602E+00	-0.3121E-01	-0.1221E-01	-0.3458E-02
19	-0.1242E+01	0.6114E+00	-0.2249E+00	-0.2364E-01	0.1736E-02	-0.1869E-01
20	-0.9724E+00	-0.1985E+00	-0.4890E+00	0.2150E-01	0.2267E-01	-0.8409E-01
21	-0.5141E+00	-0.5370E+00	-0.4043E+00	0.4863E-01	0.2477E-01	-0.1161E+00
9009	0.4317E+01	-0.5341E+00	0.2161E+01	0.4713E-01	0.3124E-01	-0.7373E-01
9010	0.3860E+01	-0.5302E+00	0.2096E+01	-0.5145E-01	0.3770E-01	0.8545E-01
22	0.4510E+00	-0.5254E+00	-0.8865E+00	-0.6820E-01	0.4417E-01	0.1781E-01
23	0.5527E+00	-0.5243E+00	-0.1399E+01	-0.5084E-01	0.4554E-01	-0.4698E-01
24	0.2250E+01	-0.5219E+00	-0.1903E+01	-0.9540E-02	0.4818E-01	-0.1414E+00
9011	0.6801E+01	-0.5165E+00	-0.9689E+00	0.5754E-01	0.5356E-01	-0.7559E-01
9012	0.5810E+01	-0.5104E+00	0.1182E+01	0.5518E-01	0.5895E-01	0.1452E+00
25	-0.1300E+01	-0.5036E+00	0.2016E+01	-0.1143E-01	0.6833E-01	0.2198E+00
26	-0.3275E+01	-0.5018E+00	0.1795E+01	-0.3436E-01	0.6586E-01	0.1911E+00
9013	-0.6620E+01	-0.4940E+00	-0.3023E+00	-0.6737E-01	0.7158E-01	-0.2847E-01
9014	-0.1722E+01	-0.4855E+00	-0.1959E+01	-0.1247E-01	0.7729E-01	-0.2079E+00
27	0.4846E+01	-0.4764E+00	-0.9268E+00	0.6480E-01	0.8300E-01	-0.1955E+00
28	0.5542E+01	-0.4728E+00	0.6155E-01	0.8228E-01	0.8514E-01	0.4559E-02
29	0.3825E+01	-0.4671E+00	0.1739E+01	0.7610E-01	0.8837E-01	0.1562E+00
9015	-0.3813E+01	-0.4558E+00	0.2980E+01	-0.2406E-01	0.9439E-01	0.1835E+00
9016	-0.6534E+01	-0.4439E+00	0.1552E+00	-0.1068E+00	0.1004E+00	-0.6256E-01
30	-0.9609E-01	-0.4314E+00	-0.3481E+01	-0.6567E-01	0.1064E+00	-0.2306E+00
31	0.1356E+00	-0.4310E+00	-0.3545E+01	-0.6284E-01	0.1066E+00	-0.2309E+00
32	0.8683E+00	-0.3717E+00	-0.3693E+01	-0.4667E-01	0.1067E+00	-0.2308E+00
35	0.1404E+01	-0.2712E+00	-0.3738E+01	-0.2596E-01	0.1045E+00	-0.2288E+00
37	0.2248E+01	-0.2385E+00	-0.3738E+01	0.2696E-01	0.9150E-01	-0.2228E+00
9017	0.3686E+01	-0.3667E+01	-0.3730E+01	0.1287E+00	-0.1153E-01	-0.1999E+00
9018	0.1826E+01	-0.6039E+01	-0.3718E+01	-0.1002E-01	-0.8376E-01	-0.1770E+00
38	-0.1272E+00	-0.2749E+01	-0.3702E+01	-0.1744E+00	-0.3165E-02	-0.1541E+00
39	0.1606E+00	-0.7824E+00	-0.3696E+01	-0.2000E+00	0.6336E-01	-0.1468E+00
9019	0.4523E+01	0.5420E+01	-0.3670E+01	-0.1171E+00	0.1284E+00	-0.1227E+00
40	0.6083E+01	0.5743E+01	-0.3639E+01	0.9664E-01	-0.6069E-01	-0.9859E-01
41	0.1569E+01	0.1250E+01	-0.3609E+01	0.1711E+00	-0.2256E+00	-0.7777E-01
43	0.6712E+00	0.3516E+00	-0.2685E+01	0.1546E+00	-0.2403E+00	-0.6718E-01
44	0.6710E+00	0.2550E+00	-0.2333E+01	0.1506E+00	-0.2358E+00	-0.6463E-01
45	0.6704E+00	0.2291E-01	-0.1455E+01	0.1401E+00	-0.2095E+00	-0.5720E-01
9020	0.6654E+00	-0.8646E+00	0.1220E+01	0.6174E-01	-0.2047E-02	-0.6527E-02
46	0.6597E+00	-0.5496E+00	0.8819E-01	-0.1664E-01	0.5076E-01	0.2246E-01

47	0.6591E+00	-0.4799E+00	-0.6043E-01	-0.2488E-01	0.4624E-01	0.2344E-01
91	0.5882E+00	-0.4799E+00	-0.1386E+00	-0.2631E-01	0.4242E-01	0.2365E-01
92	0.3301E+00	-0.4794E+00	-0.5655E+00	-0.4397E-01	0.1818E-01	0.2025E-01
93	0.3978E+00	-0.3018E+00	-0.7401E+00	-0.4754E-01	0.4487E-02	0.1395E-01
94	0.3044E+00	-0.1470E+00	-0.7404E+00	-0.4735E-01	0.2954E-03	0.9895E-02
95	0.2912E+00	0.8800E-01	-0.7408E+00	-0.4583E-01	-0.4615E-02	0.3633E-02
96	0.2582E+00	0.3117E+00	-0.7410E+00	-0.4292E-01	-0.7320E-02	-0.2628E-02
97	0.2563E+00	0.3324E+00	-0.7410E+00	-0.4274E-01	-0.7356E-02	-0.2941E-02
98	0.1939E+00	0.4718E+00	-0.6012E+00	-0.3431E-01	-0.8590E-02	-0.1043E-01
100	0.1408E+00	0.4719E+00	-0.4545E+00	-0.3138E-01	-0.7928E-02	-0.1201E-01
101	0.1034E+00	0.4720E+00	-0.3631E+00	-0.2967E-01	-0.7486E-02	-0.1190E-01
102	0.5896E-01	0.4721E+00	-0.2542E+00	-0.2790E-01	-0.7217E-02	-0.1070E-01
113	0.6136E-01	0.6516E+00	-0.3637E+00	-0.2989E-01	-0.6248E-02	-0.9939E-02
114	0.3720E-01	0.7782E+00	-0.3641E+00	-0.2980E-01	-0.5131E-02	-0.8114E-02
115	0.1780E-01	0.9058E+00	-0.3645E+00	-0.3129E-01	-0.3956E-02	-0.6289E-02
116	-0.1006E-02	0.1121E+01	-0.3650E+00	-0.3974E-01	-0.1984E-02	-0.3603E-02
118	0.1964E-02	0.1220E+01	-0.4732E+00	-0.5272E-01	-0.2741E-03	-0.2047E-02
9023	-0.3728E-01	0.1218E+01	-0.2057E+01	-0.3109E-01	0.1298E-01	0.3704E-02
120	-0.1647E+00	0.1213E+01	-0.1585E+01	0.6116E-01	0.2624E-01	0.4680E-02
122	-0.1135E+00	0.1052E+01	-0.1434E+01	0.7541E-01	0.2612E-01	0.4444E-02
124	0.8599E-02	0.7215E+00	-0.1433E+01	0.7737E-01	0.2951E-01	0.4399E-02
125	0.3150E+00	0.6673E-01	-0.1432E+01	0.3920E-01	0.2987E-01	0.4289E-02
127	0.3901E+00	0.1320E-01	-0.1456E+01	-0.6041E-02	0.2823E-01	0.3882E-02
129	0.3801E+00	0.7793E-02	-0.1148E+00	-0.4585E-01	0.1664E-01	-0.7605E-02
9024	0.1579E+00	0.3497E-02	0.1577E+00	0.6368E-02	0.8322E-02	-0.1337E-01
130	0.8361E-08	0.8522E-07	0.2411E-07	0.2701E-08	0.4726E-09	-0.1760E-08
48	0.6586E+00	-0.4097E+00	-0.1992E+00	-0.2347E-01	0.4542E-01	0.2330E-01
49	0.6578E+00	-0.2940E+00	-0.4212E+00	-0.2112E-01	0.4231E-01	0.2283E-01
50	0.6568E+00	-0.1814E+00	-0.6223E+00	-0.1878E-01	0.3745E-01	0.2176E-01
51	0.6565E+00	-0.1489E+00	-0.6775E+00	-0.1807E-01	0.3574E-01	0.2126E-01
52	0.6553E+00	-0.3768E-01	-0.8558E+00	-0.1549E-01	0.2854E-01	0.1870E-01
53	0.6497E+00	0.2583E+00	-0.1104E+01	-0.4107E-02	-0.9071E-02	0.6148E-02
54	0.6405E+00	0.2923E+00	-0.9638E-02	0.1267E-01	-0.4346E-01	-0.9046E-03
55	0.6403E+00	0.2916E+00	0.2312E-01	0.1303E-01	-0.4365E-01	-0.8420E-03
56	0.4739E+00	0.2338E+00	0.1899E+00	0.1577E-01	-0.4026E-01	0.3394E-03
57	0.3837E+00	0.1974E+00	0.1899E+00	0.1624E-01	-0.3666E-01	0.9499E-03
58	0.3149E+00	0.1643E+00	0.1900E+00	0.1652E-01	-0.3280E-01	0.1493E-02
59	0.2254E+00	0.1140E+00	0.1 00E+00	0.1665E-01	-0.2758E-01	0.2307E-02
103	0.2252E+00	0.1042E+00	0.1663E+00	0.1557E-01	-0.1210E-01	0.3416E-02
104	0.2240E+00	0.5180E-01	0.1822E+00	0.1115E-01	0.1393E-01	0.7743E-02
105	0.2236E+00	0.2678E-01	0.2002E+00	0.9721E-02	0.1013E-01	0.8860E-02
106	0.2231E+00	-0.9030E-03	0.2201E+00	0.8294E-02	0.2729E-02	0.9413E-02
107	0.2212E+00	-0.9040E-01	0.4836E-01	0.2826E-02	-0.3439E-01	0.4158E-02
109	0.1622E+00	-0.9878E-01	-0.7770E-02	0.1978E-02	-0.3945E-01	0.1456E-02
111	0.4858E-01	-0.1025E+00	-0.7757E-02	0.1099E-03	-0.2069E-01	-0.3203E-02
112	0.3004E-01	-0.1020E+00	-0.7751E-02	-0.8484E-03	-0.2840E-02	-0.5159E-02
60	0.1504E+00	0.6382E-01	0.1901E+00	0.1645E-01	-0.2336E-01	0.3105E-02
61	0.8674E-01	0.1472E-01	0.1901E+00	0.1591E-01	-0.1998E-01	0.3902E-02
62	0.8187E-01	0.1072E-01	0.1901E+00	0.1585E-01	-0.1973E-01	0.3969E-02
63	0.2147E-01	-0.6327E-01	0.1370E+00	0.1290E-01	-0.1186E-01	0.4975E-02
64	0.2228E-01	-0.1148E+00	0.3983E-01	0.7254E-02	-0.6087E-02	0.3327E-02
65	0.2264E-01	-0.1270E+00	0.1528E-01	0.4687E-02	-0.3840E-02	0.1069E-02
131	0.1902E-01	-0.1270E+00	0.3035E-01	0.4710E-02	-0.3840E-02	0.1077E-02
132	0.1560E-01	-0.1271E+00	0.4593E-01	0.4765E-02	-0.3840E-02	0.1059E-02
66	0.2307E-01	-0.1250E+00	0.1378E-02	0.2395E-02	-0.2097E-02	-0.1742E-02
67	0.2343E-01	-0.1127E+00	-0.4943E-02	0.4481E-03	-0.1225E-02	-0.3907E-02
68	0.2369E-01	-0.9868E-01	-0.7749E-02	-0.9259E-03	-0.9461E-03	-0.5304E-02
69	0.2388E-01	-0.8062E-01	-0.9044E-02	-0.2330E-02	-0.2242E-03	-0.6619E-02
70	0.2402E-01	-0.6457E-01	-0.8828E-02	-0.3342E-02	0.1300E-03	-0.7530E-02
71	0.2433E-01	-0.2200E-01	-0.6666E-02	-0.5724E-02	0.3415E-03	-0.9319E-02
133	0.5435E-01	-0.2201E-01	-0.2516E-01	-0.5753E-02	0.3415E-03	-0.9366E-02
134	0.8529E-01	-0.2202E-01	-0.4412E-01	-0.5806E-02	0.3415E-03	-0.9469E-02
72	0.2480E-01	0.2958E-01	-0.5428E-02	-0.8236E-02	-0.2451E-04	-0.1103E-01
73	0.2688E-01	0.3101E+00	-0.5821E-01	-0.1941E-01	-0.6033E-02	-0.1229E-01
74	0.2711E-01	0.3403E+00	-0.7501E-01	-0.2066E-01	-0.6951E-02	-0.1182E-01
75	0.2757E-01	0.3970E+00	-0.1136E+00	-0.2317E-01	-0.7849E-02	-0.1075E-01
76	0.2802E-01	0.4479E+00	-0.1535E+00	-0.2569E-01	-0.7607E-02	-0.9926E-02
77	0.2825E-01	0.4722E+00	-0.1724E+00	-0.2694E-01	-0.7105E-02	-0.9759E-02
78	0.2627E-01	0.5044E+00	-0.1984E+00	-0.2536E-01	-0.5840E-02	-0.6261E-02
9021	0.2843E-01	0.3569E+00	-0.2373E+00	-0.1408E-02	0.2936E-02	0.1527E-01
79	0.2856E-01	-0.2514E+00	-0.7398E-01	-0.2798E-02	0.6997E-02	0.2401E-01
80	0.2861E-01	-0.5092E+00	-0.2148E-03	0.1468E-02	0.6222E-02	0.2298E-01
81	0.2862E-01	-0.5704E+00	0.1611E-01	0.2547E-02	0.5805E-02	0.2247E-01
82	0.1177E-01	-0.6349E+00	0.3527E-01	0.5667E-02	0.3700E-02	0.2012E-01
9022	-0.2877E-01	-0.3969E+00	0.3551E-01	0.1222E-01	-0.2754E-04	0.1242E-01
83	-0.1274E-01	-0.7567E-01	0.3572E-01	0.1061E-01	-0.6014E-03	0.4720E-02
84	-0.1142E-01	-0.5161E-01	0.3574E-01	0.9834E-02	-0.4809E-03	0.4019E-02
85	-0.1066E-01	-0.3558E-01	0.3575E-01	0.9213E-02	-0.3759E-03	0.3518E-02
86	-0.2310E-02	0.2141E-02	0.1025E-01	0.4087E-02	0.2146E-03	0.9890E-03
87	-0.3762E-08	-0.3387E-07	-0.6166E-08	0.2815E-08	-0.6004E-10	0.5374E-09

COUPLED MODE SHAPES (FOR SECONDARY MODE) MODE 31
FREQUENCY (HZ.) = 26.23637

MODAL DISP AT PRIMARY SYSTEM CONNETING DOF

DOF #	DISPLACEMENT
3041	0.1046E-03
3042	0.0000E+00
3043	-0.3656E-05
3061	0.1879E-03
3063	-0.1296E-04
3072	0.0000E+00
3081	0.2185E-03
3103	-0.4665E-04
3121	0.1947E-03
3122	0.0000E+00
3123	-0.6067E-04
3091	0.2178E-03

3092	0.0000E+00
3093	-0.2890E-04

MODAL DISPLACEMENTS AT SECONDARY SYSTEM DOF

NODE	DX	DY	DZ	ROT-X	ROT-Y	ROT-Z
1	0.6784E-07	0.1282E-07	-0.3260E-08	0.8070E-09	-0.4854E-08	-0.2511E-09
2	0.1079E-01	0.8881E-03	0.1022E-01	0.6667E-03	-0.3346E-02	-0.7202E-03
3	0.3407E-01	-0.3045E-01	0.5801E-01	0.9896E-04	-0.1905E-02	-0.4889E-02
4	0.3622E-01	-0.3632E+00	0.3833E-01	-0.2769E-02	0.2532E-02	-0.2266E-01
5	0.3728E-01	-0.7606E+00	0.3017E-03	-0.4212E-02	0.2857E-02	-0.3791E-01
9001	0.5811E-01	-0.8361E+00	-0.7207E-02	-0.4418E-02	0.2752E-02	-0.4282E-01
9002	0.1206E+00	-0.8980E+00	-0.1719E-01	-0.4621E-02	0.2639E-02	-0.4761E-01
6	0.2151E+00	-0.9227E+00	-0.2742E-01	-0.4821E-02	0.2506E-02	-0.5196E-01
7	0.3355E+00	-0.9226E+00	-0.3846E-01	-0.4923E-02	0.2338E-02	-0.5423E-01
9003	0.2214E+01	-0.9206E+00	-0.1899E+00	-0.1756E-02	-0.4163E-03	-0.2706E-01
9004	0.1805E+01	-0.9171E+00	-0.1380E+00	0.3790E-02	-0.3171E-02	0.4340E-01
9	0.1882E+00	-0.9122E+00	-0.2064E-01	0.2345E-03	-0.5925E-02	0.1688E-01
10	0.1379E+00	-0.9111E+00	-0.2515E-01	-0.1823E-02	-0.6402E-02	0.2353E-03
9005	0.8635E+00	-0.9044E+00	-0.1769E+00	-0.5105E-02	-0.8742E-02	-0.3273E-01
9006	0.1562E+01	-0.8968E+00	-0.2212E+00	0.3730E-02	-0.1108E-01	-0.4508E-02
11	0.1051E+01	-0.8882E+00	0.9286E-01	0.1617E-01	-0.1342E-01	0.3302E-01
12	0.6580E+00	-0.8250E+00	0.2888E+00	0.2034E-01	-0.1423E-01	0.3856E-01
9007	0.5841E+00	-0.8646E+00	0.3354E+00	0.2176E-01	-0.1448E-01	0.3891E-01
9008	0.5298E+00	-0.8099E+00	0.3862E+00	0.2305E-01	-0.1488E-01	0.3756E-01
13	0.5108E+00	-0.7398E+00	0.4262E+00	0.2416E-01	-0.1524E-01	0.3571E-01
14	0.5106E+00	-0.6494E+00	0.4684E+00	0.2565E-01	-0.1548E-01	0.2826E-01
15	0.5103E+00	-0.5296E+00	0.5632E+00	0.2888E-01	-0.1630E-01	0.6143E-02
16	0.5053E+00	-0.8382E+00	0.8213E+00	0.3640E-01	-0.2213E-01	-0.4230E-01
17	0.4820E+00	-0.1007E+01	0.8845E+00	0.3866E-01	-0.2586E-01	-0.5179E-01
18	0.3441E+00	-0.1476E+01	0.1022E+01	0.3559E-01	-0.2967E-01	-0.6108E-01
19	0.1255E+00	-0.2127E+01	0.1239E+01	0.2122E-01	-0.3242E-01	-0.6423E-01
20	-0.4823E+00	-0.2817E+01	0.1842E+01	-0.5823E-01	-0.3236E-01	-0.3114E-01
21	-0.5180E+00	-0.2698E+01	0.1610E+01	-0.9402E-01	-0.3071E-01	-0.3617E-02
9009	-0.1336E+01	-0.2697E+01	-0.3155E+01	-0.8819E-01	-0.2173E-01	0.2204E-01
9010	-0.1361E+01	-0.2691E+01	-0.3380E+01	0.7966E-01	-0.2675E-01	-0.2248E-01
22	-0.2122E+00	-0.2680E+01	0.1430E+01	0.1107E+00	-0.2478E-01	-0.1546E-01
23	-0.1437E+00	-0.2677E+01	0.2259E+01	0.8182E-01	-0.2436E-01	0.7935E-03
24	-0.4023E+00	-0.2670E+01	0.3047E+01	0.1276E-01	-0.2355E-01	0.2654E-01
9011	-0.1380E+01	-0.2653E+01	0.1422E+01	-0.9585E-01	-0.2190E-01	0.1891E-01
9012	-0.1234E+01	-0.2632E+01	-0.2055E+01	-0.8530E-01	-0.2026E-01	-0.2833E-01
25	0.2007E+00	-0.2609E+01	0.3155E+01	0.2791E-01	-0.1861E-01	-0.4708E-01
26	0.6273E+00	-0.2601E+01	-0.2709E+01	0.6884E-01	-0.1814E-01	-0.4160E-01
9013	0.1387E+01	-0.2572E+01	0.8873E+00	0.1087E+00	-0.1640E-01	0.4907E-02
9014	0.3635E+00	-0.2538E+01	0.3338E+01	0.9722E-02	-0.1465E-01	0.4418E-01
27	-0.1027E+01	-0.2501E+01	0.1444E+01	-0.1007E+00	-0.1290E-01	0.2172E-01
28	-0.1161E+01	-0.2487E+01	-0.7351E-02	-0.1139E+00	-0.1225E-01	-0.2382E-02
29	-0.7622E+00	-0.2461E+01	-0.2157E+01	-0.9125E-01	-0.1126E-01	-0.3494E-01
9015	0.8812E+00	-0.2414E+01	-0.3483E+01	0.3092E-01	-0.9421E-02	-0.3744E-01
9016	0.1317E+01	-0.2363E+01	-0.6423E+00	0.8814E-01	-0.7580E-02	0.1869E-01
30	-0.2519E+00	-0.2307E+01	0.4659E+00	-0.6997E-01	-0.5739E-02	0.5334E-01
31	-0.3054E+00	-0.2306E+01	0.3928E+00	-0.7749E-01	-0.5689E-02	0.5332E-01
32	-0.4528E+00	-0.2184E+01	0.1330E+00	-0.1158E+00	-0.5405E-02	0.5276E-01
33	-0.5243E+00	-0.1825E+01	-0.9137E-02	-0.1351E+00	-0.4617E-02	0.5194E-01
34	-0.5540E+00	-0.7805E+00	-0.8078E-02	-0.7336E-01	0.1715E-02	0.4973E-01
9017	-0.3759E+00	-0.3939E+01	-0.3996E-02	0.1818E+00	0.1184E-01	0.4124E-01
9018	0.6542E-01	-0.8303E+01	0.9050E-04	0.3175E-01	0.1142E-01	0.3275E-01
38	0.1365E+00	-0.4942E+01	0.4177E-02	-0.2265E+00	-0.1036E-01	0.2426E-01
39	-0.2372E-01	-0.2264E+01	0.5486E-02	-0.2839E+00	-0.2130E-01	0.2154E-01
9019	-0.1025E+01	0.7373E+01	0.9771E-02	-0.2023E+00	-0.2559E-01	0.1260E-01
40	-0.1321E+01	0.8686E+01	0.1404E-01	0.1340E+00	0.1026E-01	0.3669E-02
41	-0.6891E+00	0.1558E+01	0.1772E-01	0.2979E+00	0.2525E-01	-0.4051E-02
43	-0.5978E+00	0.4197E+00	-0.6984E-01	0.2946E+00	0.2361E-01	-0.2076E-03
44	-0.5977E+00	0.4186E+00	-0.1031E+00	0.2929E+00	0.2397E-01	0.1959E-02
45	-0.5974E+00	0.4396E+00	-0.1961E+00	0.2864E+00	0.2649E-01	0.8111E-02
9020	-0.5948E+00	0.1010E+01	-0.1124E+01	0.2547E+00	0.3052E-01	0.2231E-01
46	-0.5916E+00	0.1367E+01	-0.1673E+01	0.2210E+00	0.5910E-02	-0.1051E-02
47	-0.5912E+00	0.1359E+01	-0.1686E+01	0.2174E+00	0.2891E-02	-0.4503E-02
91	-0.5841E+00	0.1358E+01	-0.1035E+01	0.2136E+00	-0.1754E-02	0.2145E-02
92	-0.8305E+00	0.1363E+01	0.1141E+01	0.1653E+00	-0.3518E-01	0.1551E-01
93	-0.1172E+01	0.9030E+00	0.1674E+01	0.1013E+00	-0.5481E-01	0.4986E-01
94	-0.1359E+01	0.6053E+00	0.1675E+01	0.8661E-01	-0.5877E-01	0.5421E-01
95	-0.1664E+01	0.2195E+00	0.1676E+01	0.7295E-01	-0.6101E-01	0.6093E-01
96	-0.1970E+01	-0.1251E+00	0.1676E+01	0.6990E-01	-0.6043E-01	0.6765E-01
97	-0.1985E+01	-0.1421E+00	0.1676E+01	0.7002E-01	-0.6037E-01	0.6799E-01
98	-0.1929E+01	-0.4152E+00	0.1382E+01	0.8781E-01	-0.5674E-01	0.7814E-01
100	-0.1566E+01	-0.4137E+00	0.9627E+00	0.9954E-01	-0.5490E-01	0.8329E-01
101	-0.1311E+01	-0.4127E+00	0.6518E+00	0.1082E+00	-0.5367E-01	0.8680E-01
102	-0.9744E+00	-0.4112E+00	0.2304E+00	0.1157E+00	-0.3424E-01	0.8987E-01
113	-0.1790E+01	-0.1100E+01	0.6529E+00	0.1225E+00	-0.1132E+00	0.8207E-01
114	-0.2355E+01	-0.1640E+01	0.6539E+00	0.1304E+00	-0.1450E+00	0.7766E-01
115	-0.3011E+01	-0.2207E+01	0.6547E+00	0.1369E+00	-0.1593E+00	0.7326E-01
116	-0.4026E+01	-0.3103E+01	0.6558E+00	0.1518E+00	-0.1599E+00	0.6677E-01
118	-0.4519E+01	-0.3459E+01	0.1024E+01	0.1698E+00	-0.1472E+00	0.5916E-01
9021	-0.4696E+01	-0.3454E+01	0.5174E+01	0.5850E-01	-0.4621E-01	-0.7399E-01
120	-0.8209E+00	-0.3445E+01	0.3172E+01	-0.1798E+00	0.5479E-01	-0.1509E+00
122	-0.3507E+00	-0.2990E+01	0.2737E+01	-0.2103E+00	0.6621E-01	-0.1383E+00
124	-0.5573E-01	-0.2076E+01	0.2737E+01	-0.2137E+00	0.7057E-01	-0.1222E+00
125	0.6563E+00	-0.2233E+00	0.2734E+01	-0.1221E+00	0.6829E-01	-0.8368E-01
127	0.6402E+00	-0.3125E-01	0.2854E+01	-0.1432E-01	0.6566E-01	-0.6881E-01
129	-0.2955E+00	-0.1845E-01	0.2566E+00	0.9691E-01	0.3871E-01	-0.7332E-02
9024	-0.1856E+00	-0.9225E-02	-0.3265E+00	-0.1290E-01	0.1936E-01	0.1357E-01
130	-0.1468E-07	-0.2017E-06	-0.5058E-07	-0.5632E-08	0.1099E-08	0.2360E-08
48	-0.5903E+00	0.1314E+01	-0.1703E+01	0.2212E+00	0.5772E-02	-0.2035E-01
49	-0.5868E+00	0.1156E+01	-0.1739E+01	0.2276E+00	0.5938E-02	-0.3677E-01
50	-0.5871E+00	0.9467E+00	-0.1762E+01	0.2339E+00	0.2287E-02	-0.3960E-01
51	-0.5866E+00	0.8850E+00	-0.1765E+01	0.2358E+00	0.8251E-03	-0.3755E-01
52	-0.5847E+00	0.7092E+00	-0.1753E+01	0.2428E+00	-0.5723E-02	-0.1848E-01
53	-0.5758E+00	0.1350E+01	-0.1267E+01	0.2735E+00	-0.3194E-01	0.5177E-01

54	-0.5619E+00	0.2710E+01	-0.2289E+00	0.3187E+00	-0.7871E-02	-0.2824E-02
55	-0.5616E+00	0.2706E+01	-0.2241E+00	0.3197E+00	-0.6305E-02	-0.5609E-02
56	-0.5434E+00	0.1405E+01	-0.2268E+00	0.3319E+00	0.3549E-02	-0.4011E-01
57	-0.5330E+00	0.6561E+00	-0.2291E+00	0.3337E+00	0.9694E-03	-0.5061E-01
58	-0.5351E+00	-0.1327E-01	-0.2294E+00	0.3351E+00	-0.2344E-02	-0.5994E-01
59	-0.5498E+00	-0.1022E+01	-0.2296E+00	0.3368E+00	-0.6736E-02	-0.7395E-01
103	-0.5506E+00	-0.6089E+00	-0.2825E+00	0.3405E+00	-0.2887E-01	-0.1861E+00
104	-0.5538E+00	0.2112E+01	-0.7101E+00	0.3553E+00	-0.4201E-01	-0.3057E+00
105	-0.5548E+00	0.2937E+01	-0.8092E+00	0.3602E+00	-0.2196E-01	-0.2337E+00
106	-0.5556E+00	0.3499E+01	-0.8406E+00	0.3650E+00	-0.4508E-03	-0.1437E+00
107	-0.5584E+00	0.4086E+01	-0.7424E+00	0.3434E+00	-0.9734E-02	-0.3165E-01
109	-0.5913E+00	0.3569E+01	-0.7671E+00	0.3837E+00	-0.2602E-01	-0.6734E-01
111	-0.6794E+00	0.2132E+01	-0.7668E+00	0.3383E+00	-0.1656E-01	-0.1351E+00
112	-0.6931E+00	0.1875E+01	-0.7667E+00	0.3027E+00	0.7178E-03	-0.1636E+00
60	-0.5757E+00	-0.2035E+01	-0.2301E+00	0.3377E+00	-0.1033E-01	-0.8557E-01
61	-0.6121E+00	-0.3050E+01	-0.2304E+00	0.3377E+00	-0.1380E-01	-0.9718E-01
62	-0.6155E+00	-0.3134E+01	-0.2305E+00	0.3376E+00	-0.1408E-01	-0.9815E-01
63	-0.6849E+00	-0.3962E+01	-0.3114E+00	0.3313E+00	-0.2412E-01	-0.1270E+00
64	-0.6849E+00	-0.2364E+01	-0.5878E+00	0.3247E+00	-0.2225E-01	-0.1643E+00
65	-0.6849E+00	-0.1497E+01	-0.6875E+00	0.3216E+00	-0.1598E-01	-0.1820E+00
131	-0.9013E-01	-0.1498E+01	0.3598E+00	0.3236E+00	-0.1598E-01	-0.1831E+00
132	0.5085E+00	-0.1499E+01	0.1421E+01	0.3255E+00	-0.1598E-01	-0.1838E+00
66	-0.6854E+00	-0.5570E+00	-0.7477E+00	0.3124E+00	-0.8161E-02	-0.1864E+00
67	-0.6858E+00	0.2323E+00	-0.7684E+00	0.3046E+00	-0.1691E-02	-0.1781E+00
68	-0.6861E+00	0.7569E+00	-0.7666E+00	0.2990E+00	0.2735E-02	-0.1667E+00
69	-0.6865E+00	0.1236E+01	-0.7504E+00	0.2917E+00	0.7746E-02	-0.1485E+00
70	-0.6868E+00	0.1558E+01	-0.7286E+00	0.2862E+00	0.1126E-01	-0.1323E+00
71	-0.6874E+00	0.2121E+01	-0.6530E+00	0.2740E+00	0.1840E-01	-0.8640E-01
133	-0.4026E+00	0.2122E+01	0.2395E+00	0.2756E+00	0.1840E-01	-0.8692E-01
134	-0.1206E+00	0.2124E+01	0.1143E+01	0.2771E+00	0.1840E-01	-0.8676E-01
72	-0.6893E+00	0.2406E+01	-0.5465E+00	0.2555E+00	0.2362E-01	-0.3136E-01
73	-0.6977E+00	0.1210E+01	-0.3741E+01	0.1736E+00	0.1111E-01	0.1060E+00
74	-0.6986E+00	0.9351E+00	-0.1496E-01	0.1644E+00	0.6132E-02	0.1101E+00
75	-0.7004E+00	0.3707E+00	-0.1046E-01	0.1460E+00	-0.5300E-02	0.1103E+00
76	-0.7019E+00	-0.1685E+00	-0.6807E-01	0.1276E+00	-0.1870E-01	0.9960E-01
77	-0.7026E+00	-0.4106E+00	-0.1232E+00	0.1184E+00	-0.2614E-01	0.9000E-01
78	-0.7029E+00	-0.7514E+00	-0.2206E+00	0.1119E+00	-0.2247E-01	0.7052E-01
9021	-0.7044E+00	-0.1022E+01	-0.5130E+00	0.6559E-01	0.1104E-02	-0.4147E-01
79	-0.7053E+00	0.1026E+01	-0.2847E+00	0.1925E-01	0.1093E-01	-0.8702E-01
80	-0.7054E+00	0.1871E+01	-0.1746E+00	0.1645E-02	0.8312E-02	-0.8442E-01
81	-0.7054E+00	0.2196E+01	-0.1535E+00	-0.2706E-02	0.7000E-02	-0.8258E-01
82	-0.7161E+00	0.2455E+01	-0.1354E+00	-0.1556E-01	0.1189E-03	-0.7357E-01
9022	-0.5204E+00	0.1647E+01	-0.1346E+00	-0.4554E-01	-0.1404E-01	-0.4383E-01
83	-0.1092E+00	0.3715E+00	-0.1336E+00	-0.4507E-01	-0.1450E-01	-0.1409E-01
84	-0.7609E-01	0.2684E+00	-0.1335E+00	-0.4253E-01	-0.1355E-01	-0.1138E-01
85	-0.5390E-01	0.1986E+00	-0.1335E+00	-0.4043E-01	-0.1277E-01	-0.9449E-02
86	-0.3069E-02	0.3405E-02	-0.4597E-01	-0.2061E-01	-0.5742E-02	-0.4366E-03
87	-0.2198E-07	0.5697E-07	-0.3405E-07	-0.1560E-07	-0.1284E-08	0.1871E-08

COUPLED MODE SHAPES (FOR SECONDARY MODE) MODE 32
FREQUENCY (HZ.) = 26.73311

MODAL DISP AT PRIMARY SYSTEM CONNETING DOF

DOF #	DISPLACEMENT
3041	-0.2110E-03
3042	0.0000E+00
3043	0.1855E-05
3061	-0.3873E-03
3063	0.6234E-05
3072	0.0000E+00
3081	-0.4643E-03
3103	0.2244E-04
3121	-0.4675E-03
3122	0.0000E+00
3123	0.2928E-04
3091	-0.4709E-03
3092	0.0000E+00
3093	0.1390E-04

MODAL DISPLACEMENTS AT SECONDARY SYSTEM DOF

NODE	DX	DY	DZ	ROT-X	ROT-Y	ROT-Z
1	0.4615E-07	0.1035E-07	-0.6562E-08	0.1342E-08	-0.1798E-08	0.2716E-09
2	0.3839E-02	0.1506E-02	0.3412E-02	0.1267E-02	-0.8714E-03	-0.1358E-03
3	0.5988E-02	-0.3344E-04	-0.3343E-02	0.2734E-02	0.2409E-02	-0.2472E-02
4	0.7455E-02	-0.2017E+00	-0.1317E+00	0.4013E-02	0.5951E-02	-0.1464E-01
5	0.8191E-02	-0.4642E+00	-0.2088E+00	0.4656E-02	0.5334E-02	-0.2543E-01
9001	0.2223E-01	-0.5150E+00	-0.2161E+00	0.4779E-02	0.4998E-02	-0.2890E-01
9002	0.6469E-01	-0.5569E+00	-0.2161E+00	0.4956E-02	0.4672E-02	-0.3229E-01
6	0.1287E+00	-0.5737E+00	-0.2089E+00	0.5144E-02	0.4389E-02	-0.3537E-01
7	0.2108E+00	-0.5736E+00	-0.1973E+00	0.5261E-02	0.4088E-02	-0.3698E-01
9003	0.1499E+01	-0.5722E+00	0.5420E-02	0.4967E-02	-0.8407E-03	-0.1853E-01
9004	0.1215E+01	-0.5699E+00	0.1155E+00	0.2965E-03	-0.5769E-02	0.2972E-01
9	0.1374E+00	-0.5667E+00	0.2734E-01	-0.4365E-02	-0.1070E-01	0.9439E-02
10	0.1183E+00	-0.5660E+00	-0.1802E-02	-0.4713E-02	-0.1155E-01	-0.2449E-02
9005	0.6973E+00	-0.5617E+00	-0.1353E+00	-0.2683E-02	-0.1574E-01	-0.2414E-01
9006	0.1178E+01	-0.5567E+00	-0.1336E+00	0.2885E-02	-0.1992E-01	-0.1576E-02
11	0.7691E+00	-0.5511E+00	0.2036E-01	0.6021E-02	-0.2411E-01	0.2362E-01
12	0.4982E+00	-0.5490E+00	0.8508E-01	0.5809E-02	-0.2555E-01	0.2549E-01
9007	0.4501E+00	-0.5358E+00	0.1090E+00	0.5765E-02	-0.2581E-01	0.2486E-01
9008	0.4159E+00	-0.5015E+00	0.1525E+00	0.5664E-02	-0.2609E-01	0.2307E-01
13	0.4044E+00	-0.4593E+00	0.2045E+00	0.5548E-02	-0.2640E-01	0.1961E-01
14	0.4042E+00	-0.4080E+00	0.2776E+00	0.5357E-02	-0.2664E-01	0.1533E-01
15	0.4039E+00	-0.3531E+00	0.4339E+00	0.4942E-02	-0.2713E-01	-0.6497E-03
16	0.4031E+00	-0.6405E+00	0.8336E+00	0.3976E-02	-0.3013E-01	-0.3491E-01
17	0.3683E+00	-0.7482E+00	0.9153E+00	0.4172E-02	-0.3205E-01	-0.4152E-01

18	0.2060E+00	-0.9847E+00	0.1077E+01	-0.1230E-03	-0.3351E-01	-0.4865E-01
19	-0.2773E-01	-0.1294E+01	0.1310E+01	-0.1455E-01	-0.3306E-01	-0.5184E-01
20	-0.5878E+00	-0.1307E+01	0.1866E+01	-0.8048E-01	-0.2745E-01	-0.3091E-01
21	-0.5905E+00	-0.1125E+01	0.1557E+01	-0.1118E+00	-0.2500E-01	-0.1137E-01
9009	-0.8565E+00	-0.1125E+01	-0.3243E+01	-0.7855E-01	-0.1911E-01	0.9918E-02
9010	-0.7655E+00	-0.1124E+01	-0.2976E+01	0.8881E-01	-0.1322E-01	-0.1440E-01
22	-0.1142E+00	-0.1120E+01	0.1806E+01	0.9892E-01	-0.7334E-02	-0.7391E-02
23	-0.9156E-01	-0.1119E+01	0.2515E+01	0.6527E-01	-0.6086E-02	0.2992E-02
24	-0.2940E+00	-0.1116E+01	0.2980E+01	-0.8818E-02	-0.3682E-02	0.1882E-01
9011	-0.9384E+00	-0.1109E+01	0.7511E+00	-0.1051E+00	0.1221E-02	0.1115E-01
9012	-0.7733E+00	-0.1101E+01	-0.2582E+01	-0.6754E-01	3.6123E-02	-0.2086E-01
25	0.2148E+00	-0.1092E+01	-0.2871E+01	0.5306E-01	0.1103E-01	-0.3088E-01
26	0.4894E+00	-0.1089E+01	-0.2202E+01	0.8603E-01	0.1242E-01	-0.2620E-01
9013	0.8983E+00	-0.1077E+01	0.1710E+01	0.1026E+00	0.1762E-01	0.6544E-02
9014	0.1323E+00	-0.1063E+01	0.3541E+01	-0.1241E-01	0.2283E-01	0.3009E-01
27	-0.7411E+00	-0.1048E+01	0.1273E+01	-0.8922E-01	0.2803E-01	0.1113E-01
28	-0.7800E+00	-0.1042E+01	0.7456E+00	-0.7478E-01	0.2997E-01	-0.5682E-02
29	-0.4344E+00	-0.1032E+01	-0.9038E+00	-0.2971E-01	0.3291E-01	-0.2669E-01
9015	0.6876E+00	-0.1012E+01	-0.6730E+00	0.3442E-01	0.3839E-01	-0.2204E-01
9016	0.7252E+00	-0.9902E+00	0.8131E+00	0.2875E-01	0.4368E-01	0.2253E-01
30	-0.8292E+00	-0.9669E+00	0.6851E+00	-0.4143E-01	0.4936E-01	0.5359E-01
31	-0.8830E+00	-0.9663E+00	0.6425E+00	-0.4377E-01	0.4951E-01	0.5387E-01
32	-0.9730E+00	-0.9065E+00	0.5091E+00	-0.5478E-01	0.4984E-01	0.5521E-01
35	-0.9013E+00	-0.7469E+00	0.4445E+00	-0.5714E-01	0.5030E-01	0.5626E-01
37	-0.4733E+00	-0.3434E+00	0.4445E+00	-0.2210E-01	0.5100E-01	0.5921E-01
9017	0.9584E+00	-0.2248E+01	0.4435E+00	0.9447E-01	0.2934E-01	0.7053E-01
9018	0.1186E+01	-0.4309E+01	0.4420E+00	0.6941E-02	-0.1513E-01	0.8186E-01
38	0.2965E+00	-0.2252E+01	0.4400E+00	-0.1228E+00	-0.2947E-01	0.9318E-01
39	0.2575E-01	-0.8343E+00	0.4392E+00	-0.1471E+00	-0.2100E-01	0.9681E-01
9019	-0.1088E+00	0.3861E+01	0.4358E+00	-0.9050E-01	0.1025E-01	0.1087E+00
40	0.5073E+00	0.4059E+01	0.4318E+00	0.8050E-01	0.2198E-01	0.1206E+00
41	0.1176E+01	0.2607E+00	0.4279E+00	0.1494E+00	0.2402E-01	0.1309E+00
43	0.1268E+01	0.2076E+00	0.3342E+00	0.1413E+00	0.2365E-01	0.1369E+00
44	0.1268E+01	0.4048E+00	0.2996E+00	0.1392E+00	0.2286E-01	0.1386E+00
45	0.1267E+01	0.9440E+00	0.2161E+00	0.1338E+00	0.1892E-01	0.1415E+00
9020	0.1264E+01	0.4283E+01	0.5769E-01	0.9283E-01	-0.6758E-03	0.6171E-01
46	0.1260E+01	0.3522E+01	-0.1089E+00	0.5190E-01	0.1915E-01	-0.1203E+00
47	0.1259E+01	0.3129E+01	-0.1721E+00	0.4759E-01	0.2347E-01	-0.1409E+00
91	0.1689E+01	0.3129E+01	-0.2502E-01	0.5195E-01	0.2595E-01	-0.1483E+00
92	0.3606E+01	0.3128E+01	0.7041E+00	0.7388E-01	0.4379E-01	-0.1865E+00
93	0.4531E+01	0.2826E+01	0.9985E+00	0.8181E-01	0.5459E-01	-0.2047E+00
94	0.4712E+01	0.2558E+01	0.9988E+00	0.8181E-01	0.5585E-01	-0.2115E+00
95	0.4994E+01	0.2152E+01	0.9993E+00	0.7848E-01	0.5540E-01	-0.2219E+00
96	0.5267E+01	0.1773E+01	0.9994E+00	0.6852E-01	0.5798E-01	-0.2324E+00
97	0.5281E+01	0.1755E+01	0.9994E+00	0.6774E-01	0.5833E-01	-0.2329E+00
98	0.4622E+01	0.1547E+01	0.8380E+00	0.2597E-01	0.7889E-01	-0.2400E+00
100	0.3519E+01	0.1546E+01	0.7653E+00	0.6417E-02	0.9605E-01	-0.2363E+00
101	0.2833E+01	0.1545E+01	0.7655E+00	-0.6581E-02	0.1075E+00	-0.2290E+00
102	0.1988E+01	0.1544E+01	0.8189E+00	-0.2174E-01	0.8022E-01	-0.2114E+00
113	0.3844E+01	0.1596E+01	0.7654E+00	-0.1128E-01	0.2466E+00	-0.2165E+00
114	0.5090E+01	0.1652E+01	0.7652E+00	-0.1507E-01	0.3220E+00	-0.2048E+00
115	0.6556E+01	0.1727E+01	0.7648E+00	-0.2238E-01	0.3574E+00	-0.1931E+00
116	0.8845E+01	0.1930E+01	0.7641E+00	-0.4732E-01	0.3619E+00	-0.1759E+00
118	0.1001E+02	0.2063E+01	0.8068E+00	-0.6304E-01	0.3146E+00	-0.1570E+00
9023	0.1081E+02	0.2057E+01	-0.2671E+01	-0.9300E-01	0.1166E+00	0.1665E+00
120	0.1753E+01	0.2048E+01	-0.2957E+01	0.8303E-01	-0.1014E+00	0.3571E+00
122	0.7070E+00	0.1802E+01	-0.2735E+01	0.1204E+00	-0.1255E+00	0.3281E+00
124	0.1459E+00	0.1255E+01	-0.2735E+01	0.1306E+00	-0.1335E+00	0.2912E+00
125	-0.1184E+01	0.1176E+00	-0.2733E+01	0.6833E-01	-0.1266E+00	0.2028E+00
127	-0.1056E+01	0.2668E-01	-0.2769E+01	-0.1467E-01	-0.1221E+00	0.1683E+00
129	0.1188E+01	0.1575E-01	-0.2151E+00	-0.8639E-01	-0.7201E-01	0.8951E-02
9024	0.6493E+00	0.7878E-02	0.2983E+00	0.1204E-01	-0.3600E-01	-0.4360E-01
130	0.4650E-07	0.1723E-06	0.4561E-07	0.5110E-08	-0.2045E-08	-0.7964E-08
48	0.1258E+01	0.2700E+01	-0.2445E+00	0.3126E-01	0.2401E-01	-0.1454E+00
49	0.1256E+01	0.1954E+01	-0.3652E+00	0.4031E-02	0.2330E-01	-0.1527E+00
50	0.1254E+01	0.1172E+01	-0.4774E+00	-0.2319E-01	0.2102E-01	-0.1574E+00
51	0.1251E+01	0.9346E+00	-0.5085E+00	-0.3136E-01	0.2011E-01	-0.1578E+00
52	0.1250E+01	0.6617E-01	-0.6093E+00	-0.6129E-01	0.1599E-01	-0.1555E+00
53	0.1238E+01	-0.3113E+01	-0.7173E+00	-0.1933E+00	-0.8287E-02	-0.9259E-01
54	0.1217E+01	-0.3849E+01	0.1286E+00	-0.3880E+00	-0.3376E-01	0.4811E-01
55	0.1217E+01	-0.3812E+01	0.1545E+00	-0.3920E+00	-0.3393E-01	0.5081E-01
56	0.1097E+01	-0.2006E+01	0.2826E+00	-0.4303E+00	-0.1984E-01	0.8205E-01
57	0.1056E+01	-0.1028E+01	0.2829E+00	-0.4370E+00	-0.1015E-01	0.8965E-01
58	0.1048E+01	-0.1464E+00	0.2831E+00	-0.4419E+00	-0.5404E-03	0.9643E-01
59	0.1070E+01	0.1191E+01	0.2835E+00	-0.4471E+00	0.1093E-01	0.1066E+00
103	0.1071E+01	0.6393E+00	0.3472E+00	-0.4478E+00	0.2917E-01	0.2323E+00
104	0.1077E+01	-0.2563E+01	0.7284E+00	-0.4509E+00	0.3414E-01	0.3461E+00
105	0.1079E+01	-0.3480E+01	0.8046E+00	-0.4519E+00	0.1428E-01	0.2526E+00
106	0.1080E+01	-0.4064E+01	0.8153E+00	-0.4528E+00	-0.5215E-02	0.1400E+00
107	0.1085E+01	-0.4428E+01	0.7771E+00	-0.4566E+00	0.3110E-01	0.1997E-01
108	0.1157E+01	-0.3792E+01	0.8385E+00	-0.4541E+00	0.5311E-01	0.7275E-01
111	0.1322E+01	-0.2340E+01	0.8382E+00	-0.3925E+00	0.2822E-01	0.1714E+00
112	0.1143E+01	-0.1813E+01	0.8380E+00	-0.3459E+00	-0.4565E-02	0.2128E+00
60	0.1119E+01	0.2541E+01	0.2838E+00	-0.4494E+00	0.1906E-01	0.1140E+00
61	0.1188E+01	0.3893E+01	0.2841E+00	-0.4486E+00	0.2469E-01	0.1215E+00
62	0.1195E+01	0.4005E+01	0.2842E+00	-0.4484E+00	0.2505E-01	0.1221E+00
63	0.1308E+01	0.5167E+01	0.4023E+00	-0.4323E+00	0.3145E-01	0.1454E+00
64	0.1310E+01	0.5345E+01	0.7204E+00	-0.4045E+00	0.2274E-01	0.1827E+00
65	0.1311E+01	0.2311E+01	0.8153E+00	-0.3918E+00	0.1371E-01	0.2230E+00
131	0.5788E+00	0.2312E+01	-0.4606E+00	-0.3943E+00	0.1371E-01	0.2243E+00
132	-0.1517E+00	0.2313E+01	-0.1754E+01	-0.3967E+00	0.1371E-01	0.2245E+00
66	0.1314E+01	0.1143E+01	0.8576E+00	-0.3712E+00	0.3782E-02	0.2342E+00
67	0.1316E+01	0.1410E+00	0.8566E+00	-0.3536E+00	-0.3619E-02	0.2284E+00
68	0.1318E+01	-0.5368E+00	0.8380E+00	-0.3412E+00	-0.8220E-02	0.2158E+00
69	0.1320E+01	-0.1167E+01	0.8040E+00	-0.3266E+00	-0.1361E-01	0.1971E+00
70	0.1321E+01	-0.1597E+01	0.7685E+00	-0.3156E+00	-0.1715E-01	0.1788E+00
71	0.1324E+01	-0.2379E+01	0.6642E+00	-0.2911E+00	-0.2339E-01	0.1252E+00
133	0.9094E+00	-0.2380E+01	-0.2841E+00	-0.2930E+00	-0.2339E-01	0.1259E+00
134	0.5031E+00	-0.2382E+01	-0.1245E+01	-0.2946E+00	-0.2339E-01	0.1252E+00
72	0.1330E+01	-0.2819E+01	0.5345E+00	-0.2599E+00	-0.2630E-01	0.5409E-01
73	0.1356E+01	-0.1293E+01	0.2383E+00	-0.1214E+00	0.1652E-01	-0.1597E+00

74	0.1359E+01	-0.8728E+00	0.2927E+00	-0.1059E+00	0.2614E-01	-0.1727E+00
75	0.1365E+01	0.5036E-01	0.4714E+00	-0.7473E-01	0.4426E-01	-0.1912E+00
76	0.1370E+01	0.1040E+01	0.7356E+00	-0.4358E-01	0.6067E-01	-0.1993E+00
77	0.1372E+01	0.1543E+01	0.8981E+00	-0.2802E-01	0.6886E-01	-0.1996E+00
78	0.1373E+01	0.2260E+01	0.1155E+01	-0.2391E-01	0.5883E-01	-0.1564E+00
9021	0.1376E+01	0.3010E+01	0.1820E+01	0.5408E-02	-0.1112E-01	0.9077E-01
79	0.1377E+01	-0.1666E+01	0.8699E+00	0.3473E-01	-0.4306E-01	0.2026E+00
80	0.1377E+01	-0.3875E+01	0.4262E+00	0.4567E-01	-0.3539E-01	0.1988E+00
81	0.1377E+01	-0.4406E+01	0.3350E+00	0.4862E-01	-0.3141E-01	0.1948E+00
82	0.1448E+01	-0.4908E+01	0.2420E+00	0.5937E-01	-0.1073E-01	0.1762E+00
9022	0.1143E+01	-0.2998E+01	0.2394E+00	0.8941E-01	0.3022E-01	0.1067E+00
83	0.2132E+00	-0.6393E+00	0.2367E+00	0.8128E-01	0.3299E-01	0.3714E-01
84	0.1361E+00	-0.4536E+00	0.2364E+00	0.7678E-01	0.3064E-01	0.3081E-01
85	0.8802E-01	-0.3276E+00	0.2362E+00	0.7315E-01	0.2868E-01	0.2628E-01
86	-0.4702E-02	0.4407E-02	0.8596E-01	0.3841E-01	0.1182E-01	0.4486E-02
87	0.5647E-07	-0.8718E-07	0.9476E-07	0.2984E-07	0.2330E-08	-0.3299E-09

COUPLED MODE SHAPES (FOR SECONDARY MODE) MODE 33
FREQUENCY (HZ.) = 26.86599

MODAL DISP AT PRIMARY SYSTEM CONNETING DOF

DOF #	DISPLACEMENT
3041	-0.9667E-04
3042	0.0000E+00
3043	0.2253E-04
3061	-0.1486E-03
3063	0.7572E-04
3072	0.0000E+00
3081	-0.1310E-03
3103	0.2726E-03
3121	0.4496E-04
3122	0.0000E+00
3123	0.3557E-03
3091	-0.1067E-03
3092	0.0000E+00
3093	0.1689E-03

MODAL DISPLACEMENTS AT SECONDARY SYSTEM DOF

NODE	DX	DY	DZ	ROT-X	ROT-Y	ROT-Z
1	-0.3836E-07	-0.3700E-08	0.8923E-08	-0.8016E-10	0.9116E-09	0.1260E-08
2	-0.1886E-02	0.2952E-02	-0.1497E-02	-0.1949E-03	0.2381E-03	0.1562E-02
3	0.4479E-03	0.5351E-01	0.1481E-01	0.1542E-03	-0.2727E-02	0.5690E-02
4	-0.7753E-03	0.3310E+00	0.1115E+00	0.1786E-02	-0.2723E-02	0.1610E-01
5	-0.1390E-02	0.5958E+00	0.1268E+00	0.2607E-02	0.8523E-03	0.2415E-01
9001	-0.1448E-01	0.6434E+00	0.1255E+00	0.2639E-02	0.2074E-02	0.2677E-01
9002	-0.5337E-01	0.6819E+00	0.1256E+00	0.2566E-02	0.3186E-02	0.2934E-01
6	-0.1110E+00	0.6970E+00	0.1287E+00	0.2546E-02	0.4174E-02	0.3166E-01
7	-0.1842E+00	0.6970E+00	0.1345E+00	0.2552E-02	0.5279E-02	0.3285E-01
9003	-0.1286E+01	0.6955E+00	0.1848E+00	-0.9315E-03	0.2335E-01	0.1497E-01
9004	-0.1010E+01	0.6930E+00	0.6980E-01	-0.4097E-02	0.4142E-01	-0.2578E-01
9	-0.1274E+00	0.6893E+00	-0.4332E-03	0.2389E-02	0.5950E-01	-0.5236E-02
10	-0.1113E+00	0.6884E+00	0.2189E-01	0.4752E-02	0.6263E-01	0.5475E-02
9005	-0.7223E+00	0.6833E+00	0.2906E+00	0.9862E-02	0.7798E-01	0.2211E-01
9006	-0.1085E+01	0.6775E+00	0.5548E+00	0.6748E-02	0.9333E-01	-0.3452E-02
11	-0.4900E+00	0.6708E+00	0.8216E+00	0.1439E-01	0.1087E+00	-0.3064E-01
12	-0.1378E+00	0.6683E+00	0.1030E+01	0.2385E-01	0.1140E+00	-0.3386E-01
9007	-0.7345E-01	0.6506E+00	0.1010E+01	0.2798E-01	0.1146E+00	-0.3388E-01
9008	-0.2643E-01	0.6033E+00	0.8932E+00	0.3182E-01	0.1149E+00	-0.3264E-01
13	-0.9933E-02	0.5425E+00	0.6935E+00	0.3536E-01	0.1153E+00	-0.2949E-01
14	-0.9845E-02	0.4634E+00	0.3749E+00	0.4027E-01	0.1154E+00	-0.2514E-01
15	-0.9653E-02	0.3518E+00	-0.3162E+00	0.5096E-01	0.1139E+00	-0.7729E-02
16	-0.9701E-02	0.5803E+00	-0.1858E+01	0.7584E-01	0.1019E+00	0.3689E-01
17	0.9786E-01	0.6084E+00	-0.2100E+01	0.8039E-01	0.9472E-01	0.4883E-01
18	0.5376E+00	0.4670E+00	-0.2539E+01	0.9579E-01	0.8402E-01	0.6793E-01
19	0.1062E+01	0.2709E+00	-0.3063E+01	0.1218E+00	0.6673E-01	0.9071E-01
20	0.1972E+01	-0.6752E+00	-0.3972E+01	0.2123E+00	0.3985E-01	0.1294E+00
21	0.1593E+01	-0.9282E+00	-0.3196E+01	0.2457E+00	0.3851E-01	0.1280E+00
9009	-0.2513E+01	-0.9246E+00	0.5964E+01	0.1303E+00	0.5758E-01	0.5074E-01
9010	-0.2040E+01	-0.9193E+00	0.4754E+01	-0.1747E+00	0.7665E-01	-0.5955E-01
22	-0.1419E+00	-0.9123E+00	-0.3851E+01	-0.1614E+00	0.9572E-01	0.1281E-01
23	-0.4537E+00	-0.9106E+00	-0.4952E+01	-0.9368E-01	0.9976E-01	0.6421E-01
24	-0.2201E+01	-0.9067E+00	-0.5323E+01	0.4598E-01	0.1076E+00	0.1322E+00
9011	-0.5963E+01	-0.5980E+00	-0.4360E+00	0.2027E+00	0.1234E+00	0.4591E-01
9012	-0.4080E+01	-0.8881E+00	0.5384E+01	0.9900E-01	0.1393E+00	-0.1493E+00
25	0.2203E+01	-0.8770E+00	0.4821E+01	-0.1287E+00	0.1552E+00	-0.1789E+00
26	0.3736E+01	-0.8737E+00	0.3324E+01	-0.1824E+00	0.1597E+00	-0.1357E+00
9013	0.5159E+01	-0.8603E+00	-0.4116E+01	-0.1762E+00	0.1766E+00	0.7155E-01
9014	-0.1933E+00	-0.8457E+00	-0.6611E+01	0.5013E-01	0.1934E+00	0.1844E+00
27	-0.4888E+01	-0.8299E+00	-0.2074E+01	0.1461E+00	0.2103E+00	0.3662E-01
28	-0.4682E+01	-0.8236E+00	-0.4476E+00	0.8639E-01	0.2166E+00	-0.6869E-01
29	-0.1953E+01	-0.8135E+00	0.9469E-01	-0.2140E-01	0.2261E+00	-0.1880E+00
9015	0.5169E+01	-0.7936E+00	-0.2200E+01	-0.6601E-02	0.2438E+00	-0.1216E+00
9016	0.4452E+01	-0.7724E+00	-0.3346E+01	0.1106E-01	0.2616E+00	0.1636E+00
30	-0.5220E+01	-0.7499E+00	-0.2482E+01	-0.2518E-02	0.2794E+00	0.2933E+00
31	-0.5519E+01	-0.7493E+00	-0.2486E+01	-0.5926E-02	0.2798E+00	0.2956E+00
32	-0.5998E+01	-0.7263E+00	-0.2526E+01	-0.2514E-01	0.2819E+00	0.2942E+00
35	-0.5568E+01	-0.6313E+00	-0.2561E+01	-0.3857E-01	0.2849E+00	0.2901E+00
37	-0.3146E+01	-0.3044E+00	-0.2559E+01	-0.2320E-01	0.2892E+00	0.2796E+00
9017	0.5092E+01	-0.1359E+01	-0.2547E+01	0.5907E-01	0.1738E+00	0.2395E+00
9018	0.6676E+01	-0.2717E+01	-0.1531E+01	0.7327E-02	-0.7740E-01	0.1993E+00
38	0.1746E+01	-0.1494E+01	-0.2513E+01	-0.7666E-01	-0.1705E+00	0.1592E+00
39	0.1442E+00	-0.6004E+00	-0.2507E+01	-0.9351E-01	-0.1287E+00	0.1463E+00
9019	-0.1339E+01	0.2463E+01	-0.2480E+01	-0.6073E-01	0.2480E-01	0.1040E+00
40	0.3273E+00	0.2692E+01	-0.2450E+01	0.4804E-01	0.4273E-01	0.6179E-01
41	0.1451E+00	0.3711E+00	-0.2421E+01	0.9104E-01	-0.7573E-01	0.2528E-01

43	-0.2273E+00	0.1115E+00	-0.1985E+01	0.8600E-01	-0.1252E+00	0.1896E-01
44	-0.2272E+00	0.1377E+00	-0.1796E+01	0.8445E-01	-0.1263E+00	0.1844E-01
45	-0.2268E+00	0.2061E+00	-0.1357E+01	0.8034E-01	-0.1159E+00	0.1724E-01
9020	-0.2233E+00	0.5085E+00	0.1995E+00	0.4980E-01	-0.3436E-02	5.2229E-02
46	-0.2196E+00	0.3238E+00	-0.3631E+00	0.1886E-01	0.2794E-01	-0.1382E-01
47	-0.2192E+00	0.2803E+00	-0.4460E+00	0.1563E-01	0.2637E-01	-0.1503E-01
91	-0.1735E+00	0.2802E+00	-0.3994E+00	0.1535E-01	0.2606E-01	-0.1570E-01
92	0.2511E-01	0.2799E+00	-0.2338E+00	0.1436E-01	0.2382E-01	-0.1902E-01
93	0.1852E+00	0.2269E+00	-0.1804E+00	0.1348E-01	0.2225E-01	-0.2007E-01
94	0.2561E+00	0.1838E+00	-0.1804E+00	0.1265E-01	0.2141E-01	-0.2050E-01
95	0.3598E+00	0.1246E+00	-0.1804E+00	0.1041E-01	0.1972E-01	-0.2116E-01
96	0.4537E+00	0.7966E-01	-0.1803E+00	0.6827E-02	0.1801E-01	-0.2183E-01
97	0.4561E+00	0.7792E-01	-0.1803E+00	0.6610E-02	0.1793E-01	-0.2186E-01
98	0.4366E+00	0.6642E-01	-0.1801E+00	-0.4202E-02	0.1547E-01	-0.2219E-01
100	0.3337E+00	0.6620E-01	-0.1505E+00	-0.8777E-02	0.1413E-01	-0.2170E-01
101	0.2657E+00	0.6606E-01	-0.1196E+00	-0.1165E-01	0.1326E-01	-0.2238E-01
102	0.1820E+00	0.6583E-01	-0.7071E-01	-0.1401E-01	0.7702E-02	-0.2133E-01
113	0.3839E+00	0.1461E+00	-0.1198E+00	-0.1558E-01	0.2801E-01	-0.2137E-01
114	0.5239E+00	0.2182E+00	-0.1199E+00	-0.1790E-01	0.3602E-01	-0.2044E-01
115	0.6873E+00	0.2978E+00	-0.1200E+00	-0.1946E-01	0.3874E-01	-0.1950E-01
116	0.9411E+00	0.4257E+00	-0.1202E+00	-0.2146E-01	0.4004E-01	-0.1812E-01
118	0.1068E+01	0.4754E+00	-0.1711E+00	-0.2308E-01	0.3694E-01	-0.1638E-01
9023	0.1156E+01	0.4751E+00	-0.6866E+00	-0.5191E-02	0.1211E-01	0.1742E-01
120	0.1994E+00	0.4742E+00	-0.3473E+00	0.2549E-01	-0.1272E-01	0.3775E-01
122	0.8405E-01	0.4112E+00	-0.2865E+00	0.2881E-01	-0.1551E-01	0.3466E-01
124	0.1484E-01	0.2869E+00	-0.2865E+00	0.2902E-01	-0.1652E-01	0.3070E-01
125	-0.1511E+00	0.3282E-01	-0.2861E+00	0.1747E-01	-0.1587E-01	0.2123E-01
127	-0.1437E+00	0.3836E-02	-0.3062E+00	0.4054E-02	-0.1527E-01	0.1755E-01
129	0.9464E-01	0.2264E-02	-0.3058E-01	-0.1107E-01	-0.9006E-02	0.1549E-02
9024	0.5567E-01	0.1133E-02	0.3669E-01	0.1423E-02	-0.4502E-02	-0.4150E-02
130	0.4220E-08	0.2476E-07	0.5743E-08	0.6365E-09	-0.2557E-09	-0.6969E-09
48	-0.2189E+00	0.2358E+00	-0.5234E+00	0.1313E-01	0.2448E-01	-0.1484E-01
49	-0.2183E+00	0.1620E+00	-0.6364E+00	0.8959E-02	0.1979E-01	-0.1490E-01
50	-0.2176E+00	0.8679E-01	-0.7213E+00	0.4790E-02	0.1395E-01	-0.1523E-01
51	-0.2174E+00	0.6388E-01	-0.7409E+00	0.3540E-02	0.1211E-01	-0.1534E-01
52	-0.2166E+00	-0.2163E-01	-0.7888E+00	-0.1042E-02	0.5188E-02	-0.1581E-01
53	-0.2131E+00	-0.3840E+00	-0.6027E+00	-0.2126E-01	-0.1743E-01	-0.1181E-01
54	-0.2076E+00	-0.5134E+00	-0.5249E-01	-0.5106E-01	-0.2660E-03	0.5216E-02
55	-0.2075E+00	-0.5093E+00	-0.5271E-01	-0.5169E-01	0.8879E-03	0.5606E-02
56	-0.1657E+00	-0.2725E+00	-0.7857E-01	-0.5756E-01	0.1453E-01	0.1035E-01
57	-0.1295E+00	-0.1412E+00	-0.7856E-01	-0.5880E-01	0.1575E-01	0.1154E-01
58	-0.9702E-01	-0.2241E-01	-0.7855E-01	-0.5968E-01	0.1624E-01	0.1259E-01
59	-0.4696E-01	0.1587E+00	-0.7854E-01	-0.6074E-01	0.1654E-01	0.1418E-01
103	-0.4665E-01	0.7943E-01	-0.2469E-01	-0.6153E-01	0.1019E-01	0.3564E-01
104	-0.4537E-01	-0.4311E+00	-0.5830E-02	-0.6476E-01	-0.2482E-02	0.5545E-01
105	-0.4495E-01	-0.5770E+00	-0.1344E-01	-0.6580E-01	-0.2095E-02	0.3977E-01
106	-0.4451E-01	-0.6670E+00	-0.1676E-01	-0.6685E-01	0.3202E-03	0.2080E-01
107	-0.4282E-01	-0.6910E+00	0.1109E+00	-0.7084E-01	0.2640E-01	-0.7502E-03
109	0.4004E-02	-0.5860E+00	0.1548E+00	-0.7102E-01	0.3168E-01	0.7529E-02
111	0.9637E-01	-0.3581E+00	0.1548E+00	-0.6176E-01	0.1678E-01	0.2300E-01
112	0.1112E+00	-0.2751E+00	0.1547E+00	-0.5451E-01	0.1620E-02	0.2949E-01
60	0.3117E-02	0.3426E+00	-0.7852E-01	-0.6145E-01	0.1648E-01	0.1530E-01
61	0.5249E-01	0.5281E+00	-0.7851E-01	-0.6176E-01	0.1607E-01	0.1643E-01
62	0.5653E-01	0.5435E+00	-0.7850E-01	-0.6177E-01	0.1602E-01	0.1652E-01
63	0.1133E+00	0.7066E+00	-0.2537E-01	-0.6092E-01	0.1270E-01	0.1976E-01
64	0.1137E+00	0.4583E+00	0.8965E-01	-0.5933E-01	0.7954E-02	0.2621E-01
65	0.1138E+00	0.3178E+00	0.1234E+00	-0.5861E-01	0.5436E-02	0.3023E-01
131	0.1502E-01	0.3179E+00	-0.6746E-01	-0.5899E-01	0.5436E-02	0.3042E-01
132	-0.8446E-01	0.3181E+00	-0.2610E+00	-0.5934E-01	0.5436E-02	0.3054E-01
66	0.1140E+00	0.1582E+00	0.1441E+00	-0.5663E-01	0.3021E-02	0.3218E-01
67	0.1142E+00	0.2002E-01	0.1528E+00	-0.5496E-01	0.1266E-02	0.3160E-01
68	0.1144E+00	-0.7397E-01	0.1547E+00	-0.5377E-01	0.2181E-03	0.2997E-01
69	0.1146E+00	-0.1616E+00	0.1528E+00	-0.5223E-01	-0.1273E-02	0.2748E-01
70	0.1147E+00	-0.2217E+00	0.1486E+00	-0.5107E-01	-0.2264E-02	0.2500E-01
71	0.1150E+00	-0.3316E+00	0.1321E+00	-0.4850E-01	-0.4065E-02	0.1768E-01
133	0.5696E-01	-0.3317E+00	-0.2603E-01	-0.4881E-01	-0.4065E-02	0.1778E-01
134	-0.8777E-03	-0.3320E+00	-0.1859E+00	-0.4906E-01	-0.4065E-02	0.1778E-01
72	0.1156E+00	-0.3960E+00	0.1080E+00	-0.4451E-01	-0.5327E-02	0.8551E-02
73	0.1178E+00	-0.2441E+00	-0.2072E-01	-0.2679E-01	-0.4185E-02	-0.1782E-01
74	0.1181E+00	-0.1971E+00	-0.3058E-01	-0.2479E-01	-0.3283E-02	-0.1925E-01
75	0.1185E+00	-0.9455E-01	-0.4175E-01	-0.2081E-01	-0.6220E-03	-0.2099E-01
76	0.1190E+00	0.1292E-01	-0.3677E-01	-0.1682E-01	0.3131E-02	-0.2110E-01
77	0.1192E+00	0.6573E-01	-0.2659E-01	-0.1483E-01	0.5396E-02	-0.2051E-01
78	0.1192E+00	0.1395E+00	-0.6392E-02	-0.1381E-01	0.4701E-02	-0.1636E-01
9021	0.1195E+00	0.2354E+00	0.6459E-01	-0.7362E-02	0.4872E-03	0.7921E-02
79	0.1197E+00	-0.1856E+00	0.4383E-01	-0.6098E-03	-0.1315E-02	0.1833E-01
80	0.1197E+00	-0.3852E+00	0.3044E-01	0.1660E-02	-0.9872E-03	0.1794E-01
81	0.1197E+00	-0.4331E+00	0.2796E-01	0.2295E-02	-0.7999E-03	0.1757E-01
82	0.1204E+00	-0.4818E+00	0.2614E-01	0.4223E-02	0.2188E-03	0.1577E-01
9022	0.8462E-01	-0.3119E+00	0.2600E-01	0.8955E-02	0.2383E-02	0.9511E-02
83	0.1585E-01	-0.6753E-01	0.2584E-01	0.8497E-02	0.2416E-02	0.3249E-02
84	0.1034E-01	-0.4813E-01	0.2583E-01	0.8002E-02	0.2260E-02	0.2679E-02
85	0.6640E-02	-0.3501E-01	0.2581E-01	0.7597E-02	0.2131E-02	0.2272E-02
86	-0.1644E-03	0.9828E-04	0.8789E-02	0.5839E-02	0.9659E-03	0.3244E-03
87	0.3496E-08	-0.1039E-07	0.5841E-08	0.2900E-08	0.1773E-09	-0.1227E-09

COUPLED MODE SHAPES (FOR SECONDARY MODE) MODE 34
FREQUENCY (HZ.) = 27.54339

MODAL DISP AT PRIMARY SYSTEM CONNETING DOF

DOF #	DISPLACEMENT
3041	-0.1725E-03
3042	0.0000E+00
3043	-0.4981E-05
3061	-0.3037E-03
3063	-0.1674E-04
3072	0.0000E+00
3081	-0.3430E-03

3103	-0.6026E-04
3121	-0.2664E-03
3122	0.0000E+00
3123	-0.7862E-04
3091	-0.3362E-03
3092	0.0000E+00
3093	-0.3733E-04

MODAL DISPLACEMENTS AT SECONDARY SYSTEM DOF

NODE	DX	DY	DZ	ROT-X	ROT-Y	ROT-Z
1	-0.3130E-07	-0.1051E-07	0.1054E-07	-0.2408E-08	-0.8614E-09	-0.1120E-08
2	0.2252E-02	-0.8082E-02	0.2589E-02	-0.2371E-02	-0.1366E-02	-0.6824E-03
3	0.2000E-01	-0.4169E-01	0.6253E-01	-0.6746E-02	-0.6923E 02	-0.1817E-03
4	0.1899E-01	0.4194E-01	0.3217E+00	-0.1348E-01	-0.1084E-01	0.8271E-02
5	0.1848E-01	0.2033E+00	0.4621E+00	-0.1687E-01	-0.1002E-01	0.1645E-01
9001	0.9264E-02	0.2365E+00	0.4719E+00	-0.1741E-01	-0.9677E-02	0.1906E-01
9002	-0.1900E-01	0.2643E+00	0.4606E+00	-0.1804E-01	-0.9331E-02	0.2162E-01
6	-0.6214E-01	0.2756E+00	0.4303E+00	-0.1871E-01	-0.9080E-02	0.2394E-01
7	-0.1179E+00	0.2756E+00	0.3882E+00	-0.1910E-01	-0.8855E-02	0.2518E-01
9003	-0.1015E+01	0.2747E+00	-0.2651E+00	-0.1338E-01	-0.5183E-02	0.1312E-01
9004	-0.8241E+00	0.2734E+00	-0.4420E+00	0.5183E-02	-0.1511E-02	-0.2045E-01
9	-0.1029E+00	0.2717E+00	-0.8569E-01	0.8639E-02	0.2161E-02	-0.4782E-02
10	-0.1025E+00	0.2713E+00	-0.3810E-01	0.5866E-02	0.2797E-02	0.3866E-02
9005	-0.5714E+00	0.2690E+00	-0.4910E-01	-0.4387E-02	0.5916E-02	0.1813E-01
9006	-0.9073E+00	0.2663E+00	-0.1973E+00	-0.3322E-02	0.9034E-02	0.6697E-04
11	-0.6013E+00	0.2634E+00	-0.2008E+00	0.3253E-02	0.1215E-01	-0.1546E-01
12	-0.4358E+00	0.2623E+00	-0.1538E+00	0.5337E-02	0.1321E-01	-0.1414E-01
9007	-0.4101E+00	0.2553E+00	-0.1499E+00	0.5868E-02	0.1339E-01	-0.1261E-01
9008	-0.3934E+00	0.2388E-00	-0.1601E+00	0.6270E-02	0.1356E-01	-0.1033E-01
13	-0.3884E+00	0.2214E+00	-0.1825E+00	0.6609E-02	0.1389E-01	-0.7097E-02
14	-0.3883E+00	0.2047E+00	-0.2211E+00	0.7085E-02	0.1422E-01	-0.3754E-02
15	-0.3880E+00	0.2088E+00	-0.3089E+00	0.8154E-02	0.1520E-01	0.7032E-02
16	-0.3672E+00	0.4822E+00	-0.5501E+00	0.1062E-01	0.2039E-01	0.2817E-01
17	-0.3624E+00	0.5509E+00	-0.6079E+00	0.1099E-01	0.2343E-01	0.3168E-01
18	-0.2386E+00	0.6559E+00	-0.7310E+00	0.1498E-01	0.2845E-01	0.3511E-01
19	-0.4581E-01	0.7689E+00	-0.9228E+00	0.2542E-01	0.2833E-01	0.3516E-01
20	0.6698E+00	0.4015E+00	-0.1435E+01	0.7398E-01	0.2646E-01	0.1436E-01
21	0.5241E+00	0.2048E+00	-0.1168E+01	0.9737E-01	0.2454E-01	-0.1679E-02
9009	0.1050E+01	0.2061E+00	0.2777E+01	0.5848E-01	0.1852E-01	-0.9144E-02
9010	0.7636E+00	0.2070E+00	0.2198E+01	-0.8090E-01	0.1249E-01	0.2090E-01
22	0.6690E-01	0.2074E+00	-0.1776E+01	-0.7339E-01	0.6470E-02	-0.1701E-02
23	0.1465E+00	0.2075E+00	-0.2271E+01	-0.4125E-01	0.5194E-02	-0.1822E-01
24	0.6700E+00	0.2075E+00	-0.2399E+01	0.2475E-01	0.2734E-02	-0.4029E-01
9011	0.1824E+01	0.2072E+00	-0.6237E-01	0.9414E-01	-0.2281E-02	-0.1380E-01
9012	0.1219E+01	0.2066E+00	0.2545E+01	0.4035E-01	-0.7297E-02	0.4685E-01
25	-0.7248E+00	0.2058E+00	0.2056E+01	-0.6534E-01	-0.1231E-01	0.5430E-01
26	-0.1185E+01	0.2055E+00	0.1326E+01	-0.8847E-01	-0.1374E-01	0.4137E-01
9013	-0.1531E+01	0.2042E+00	-0.2106E+01	-0.7634E-01	-0.1906E-01	-0.2493E-01
9014	0.1773E+00	0.2028E+00	-0.2981E+01	0.3087E-01	-0.2438E-01	-0.5639E-01
27	0.1523E+01	0.2006E+00	-0.8387E+00	0.5865E-01	-0.2970E-01	-0.6598E-02
28	0.1393E+01	0.1998E+00	-0.2767E+00	0.1959E-01	-0.3170E-01	0.2632E-01
29	0.4583E+00	0.1985E+00	-0.5475E+00	-0.3705E-01	-0.3470E-01	0.6166E-01
9015	-0.1761E+01	0.1956E+00	-0.2120E+01	-0.2215E-01	-0.4031E-01	0.3468E-01
9016	-0.1396E+01	0.1924E+00	-0.1466E+01	0.5286E-01	-0.4593E-01	-0.5243E-01
30	0.1337E+01	0.1889E+00	0.7995E+00	0.4386E-01	-0.5153E-01	-0.7279E-01
31	0.1410E+01	0.1888E+00	0.8426E+00	0.4166E-01	-0.5168E-01	-0.7167E-01
32	0.1535E+01	0.1515E+00	0.9385E+00	0.2877E-01	-0.5284E-01	-0.6542E-01
35	0.1462E+01	0.9424E-01	0.9653E+00	0.1375E-01	-0.5457E-01	-0.6001E-01
37	0.9910E+00	0.9255E-01	0.9657E+00	-0.1586E-01	-0.5766E-01	-0.4569E-01
9017	-0.8099E+00	0.1830E+01	0.9654E+00	-0.6187E-01	-0.4328E-01	0.9286E-02
9018	-0.1412E+01	0.2817E+01	0.9637E+00	0.1374E-01	0.9014E-02	0.6426E-01
38	-0.4402E+00	0.9416E+00	0.9606E+00	0.8920E-01	0.4100E-01	0.1192E+00
39	-0.1918E-01	-0.3322E-01	0.9596E+00	0.9606E-01	0.3835E-01	0.1368E+00
9019	0.2681E+00	-0.2745E+01	0.9536E+00	0.4322E-01	0.1180E-01	0.1547E+00
40	0.9540E+00	-0.2633E+01	0.9462E+00	-0.4066E-01	0.4979E-03	0.2525E+00
41	0.1432E+01	-0.1425E+01	0.9388E+00	-0.1473E-01	0.4463E-01	0.3025E+00
43	0.1640E+01	-0.2676E+00	0.6984E+00	0.2050E-01	0.7206E-01	0.3076E+00
44	0.1640E+01	0.1771E+00	0.5908E+00	0.2846E-01	0.7442E-01	0.3081E+00
45	0.1639E+01	0.1358E+01	0.2946E+00	0.4953E-01	0.7704E-01	0.3059E+00
9020	0.1633E+01	0.8242E+01	-0.1742E+01	0.2072E+00	0.5966E-01	0.1278E+00
46	0.1625E+01	0.7456E+01	-0.3084E+01	0.3648E+00	0.3945E-01	-0.1796E+00
47	0.1624E+01	0.6869E+01	-0.3201E+01	0.3814E+00	0.3931E-01	-0.2101E+00
91	0.2251E+01	0.6869E+01	-0.2045E+01	0.3897E+00	0.2911E-01	-0.2066E+00
92	0.4464E+01	0.6874E+01	0.2477E+01	0.3902E+00	-0.4425E-01	-0.1906E+00
93	0.4895E+01	0.5558E+01	0.3870E+01	0.3262E+00	-0.8028E-01	-0.1831E+00
94	0.4584E+01	0.4535E+01	0.3872E+01	0.3090E+00	-0.1011E+00	-0.1830E+00
95	0.4033E+01	0.3047E+01	0.3875E+01	0.2901E+00	-0.1161E+00	-0.1829E+00
96	0.3423E+01	0.1631E+01	0.3876E+01	0.2766E+00	-0.1199E+00	-0.1828E+00
97	0.3392E+01	0.1562E+01	0.3876E+01	0.2762E+00	-0.1197E+00	-0.1828E+00
98	0.2267E+01	0.5619E+00	0.2899E+01	0.2562E+00	-0.9585E-01	-0.1707E+00
100	0.1542E+01	0.5621E+00	0.1757E+01	0.2561E+00	-0.7544E-01	-0.1525E+00
101	0.1105E+01	0.5623E+00	0.9916E+00	0.2579E+00	-0.6184E-01	-0.1325E+00
102	0.6534E+00	0.5632E+00	0.4595E-01	0.2466E+00	-0.4889E-01	-0.1002E+00
113	0.7700E+00	-0.1177E+01	0.9916E+00	0.3327E+00	-0.4766E-01	-0.1186E+00
114	0.5892E+00	-0.2703E+01	0.9955E+00	0.3773E+00	-0.3885E-01	-0.1057E+00
115	0.4384E+00	-0.4372E+01	0.9970E+00	0.4042E+00	-0.3260E-01	-0.9278E-01
116	0.2689E+00	-0.6982E+01	0.9992E+00	0.4266E+00	-0.3533E-01	-0.7375E-01
118	0.3551E+00	-0.7950E+01	0.1973E+01	0.4332E+00	-0.2137E-01	-0.6155E-01
9023	0.1049E+01	-0.7948E+01	0.1088E+02	0.7192E-01	0.1261E-01	0.1549E-01
120	-0.1703E+00	-0.7935E+01	0.4744E+01	-0.4316E+00	0.4659E-01	0.5431E-01
122	-0.1791E+00	-0.6884E+01	0.3724E+01	-0.4789E+00	0.5210E-01	0.5186E-01
124	0.5228E-01	-0.4825E+01	0.3721E+01	-0.4807E+00	0.5779E-01	0.4931E-01
125	0.6877E+00	-0.5769E+00	0.3718E+01	-0.3012E+00	0.6381E-01	0.4322E-01
127	0.9220E+00	-0.5931E-01	0.4097E+01	-0.9320E-01	0.6039E-01	0.3959E-01
129	0.1357E+01	-0.3502E-01	0.4563E+00	0.1585E+00	0.3561E-01	-0.1839E-01
9024	0.6073E+00	-0.1751E-01	-0.5166E+00	-0.1964E-01	0.1780E-01	-0.4983E-01
130	0.3575E-07	-0.3829E-06	-0.8176E-07	-0.9015E-08	0.1011E-08	-0.6987E-08
48	0.1624E+01	0.6176E+01	-0.3347E+01	0.3702E+00	0.5168E-01	-0.2431E+00

49	0.1622E+01	0.4840E+01	-0.3644E+01	0.3516E+00	0.5908E-01	-0.2805E+00
50	0.1621E+01	0.3372E+01	-0.3938E+01	0.3327E+00	0.5450E-01	-0.2698E+00
51	0.1620E+01	0.2932E+01	-0.4019E+01	0.3271E+00	0.5166E-01	-0.2858E+00
52	0.1618E+01	0.1422E+01	-0.4270E+01	0.3065E+00	0.3613E-01	-0.2451E+00
53	0.1607E+01	-0.1625E+01	-0.4012E+01	0.2157E+00	-0.6164E-01	-0.2520E-01
54	0.1589E+01	-0.7420E-01	-0.1861E+00	0.8190E-01	-0.1150E+00	0.5417E-01
55	0.1588E+01	-0.3346E-01	-0.1005E+00	0.7809E-01	-0.1134E+00	0.5226E-01
56	0.1203E+01	-0.1190E+00	0.3040E+00	0.5950E-01	-0.8750E-01	0.2455E-01
57	0.1011E+01	-0.2461E+00	0.3039E+00	0.5593E-01	-0.7621E-01	0.1418E-01
58	0.8734E+00	-0.3536E+00	0.3039E+00	0.5391E-01	-0.6525E-01	0.4720E-02
59	0.7036E+00	-0.5098E+00	0.3037E+00	0.5295E-01	-0.5167E-01	-0.9491E-02
103	0.7033E+00	-0.3518E+00	0.1288E+00	0.6414E-01	-0.3723E-01	-0.1094E+00
104	0.7020E+00	0.1579E+01	-0.3573E-01	0.1097E+00	-0.2672E-02	-0.2251E+00
105	0.7015E+00	0.2180E+01	-0.2794E-01	0.1244E+00	0.2472E-03	-0.1668E+00
106	0.7008E+00	0.2565E+01	-0.2783E-01	0.1391E+00	-0.1261E-02	-0.9121E-01
107	0.6975E+00	0.2599E+01	-0.2633E+00	0.1955E+00	-0.5197E-01	0.3214E-01
109	0.6031E+00	0.2253E+01	-0.3508E+00	0.2027E+00	-0.6454E-01	0.1552E-01
111	0.4096E+00	0.1594E+01	-0.3506E+00	0.1798E+00	-0.3753E-01	-0.1755E-01
112	0.3736E+00	0.1352E+01	-0.3506E+00	0.1583E+00	-0.8483E-02	-0.3143E-01
60	0.5691E+00	-0.6672E+00	0.3036E+00	0.5414E-01	-0.4181E-01	-0.2159E-01
61	0.4589E+00	-0.6311E+00	0.3035E+00	0.5741E-01	-0.3550E-01	-0.3369E-01
62	0.4505E+00	-0.8453E+00	0.3035E+00	0.5777E-01	-0.5514E-01	-0.3470E-01
63	0.3370E+00	-0.8925E+00	0.1921E+00	0.7376E-01	-0.2902E-01	-0.5790E-01
64	0.3404E+00	-0.1672E+00	-0.1051E+00	0.1080E+00	-0.2327E-01	-0.6686E-01
65	0.3419E+00	0.1601E+00	-0.2107E+00	0.1236E+00	-0.1818E-01	-0.6081E-01
111	0.5370E+00	0.1602E+00	0.1916E+00	0.1245E+00	-0.1818E-01	-0.6134E-01
112	0.7414E+00	0.1603E+00	0.6004E+00	0.1253E+00	-0.1818E-01	-0.6240E-01
66	0.3449E+00	0.4493E+00	-0.2871E+00	0.1368E+00	-0.1256E-01	-0.5251E-01
67	0.3471E+00	0.6552E+00	-0.3307E+00	0.1481E+00	-0.8171E-02	-0.4189E-01
68	0.3491E+00	0.7683E+00	-0.3505E+00	0.1560E+00	-0.5304E-02	-0.3246E-01
69	0.3507E+00	0.8517E+00	-0.3602E+00	0.1628E+00	-0.1437E-02	-0.2185E-01
70	0.3519E+00	0.8923E+00	-0.3600E+00	0.1678E+00	0.1271E-02	-0.1310E-01
71	0.3546E+00	0.9073E+00	-0.3391E+00	0.1791E+00	0.6660E-02	0.8661E-02
133	0.3242E+00	0.9077E+00	0.2441E+00	0.1803E+00	0.6660E-02	0.8648E-02
134	0.2981E+00	0.9084E+00	0.8362E+00	0.1815E+00	0.6660E-02	0.8222E-02
72	0.3582E+00	0.8139E+00	-0.2934E+00	0.1865E+00	0.1002E-01	0.2525E-01
73	0.3742E+00	0.1200E+00	-0.2153E+00	0.2197E+00	-0.1505E-01	0.1030E-01
74	0.3759E+00	0.1044E+00	-0.2618E+00	0.2234E+00	-0.2124E-01	-0.5403E-03
75	0.3794E+00	0.1662E+00	-0.3974E+00	0.2309E+00	-0.3166E-01	-0.2792E-01
76	0.3828E+00	0.3840E+00	-0.5786E+00	0.2383E+00	-0.3996E-01	-0.6307E-01
77	0.3845E+00	0.5636E+00	-0.6857E+00	0.2420E+00	-0.4350E-01	-0.8361E-01
78	0.3847E+00	0.8691E+00	-0.8476E+00	0.2329E+00	-0.3790E-01	-0.6880E-01
9021	0.3862E+00	0.1417E+01	-0.1302E+01	0.1675E+00	0.7235E-02	0.2694E-01
79	0.3872E+00	-0.2510E+00	-0.5967E+00	0.1022E+00	0.3473E-01	0.7691E-01
80	0.3875E+00	-0.1103E+01	-0.2168E+00	0.7736E-01	0.3314E-01	0.7765E-01
81	0.3876E+00	-0.1311E+01	-0.1291E+00	0.7122E-01	0.3144E-01	0.7644E-01
82	0.2915E+00	-0.1380E+01	-0.2239E-01	0.5651E-01	0.2200E-01	0.7194E-01
9022	-0.2360E-01	-0.1484E+00	-0.3086E-01	0.2540E-01	0.4836E-02	0.4668E-01
83	-0.6142E-01	0.4105E-01	-0.1931E-01	0.6344E-02	0.4614E-03	0.2142E-01
84	-0.6256E-01	0.5413E-01	-0.1917E-01	0.4985E-02	0.7171E-03	0.1912E-01
85	-0.6382E-01	0.6158E-01	-0.1906E-01	0.4055E-02	0.9711E-03	0.1748E-01
86	-0.2419E-01	0.2413E-01	-0.1281E-01	-0.3772E-03	0.2109E-02	0.8064E-02
87	-0.1487E-07	0.8903E-08	-0.5099E-07	-0.1923E-08	0.3032E-08	0.7386E-08

COUPLED MODE	FREQUENCY (HZ)	DAMPING RATIO (%)
1	0.13145E+01	0.50000E+01
2	0.15867E+01	0.42150E+01
3	0.28009E+01	0.26665E+01
4	0.34301E+01	0.23447E+01
5	0.36006E+01	0.22825E+01
6	0.38984E+01	0.21920E+01
7	0.42591E+01	0.21076E+01
8	0.56890E+01	0.19441E+01
9	0.74677E+01	0.19400E+01
10	0.80710E+01	0.19651E+01
11	0.83071E+01	0.19775E+01
12	0.10178E+02	0.21110E+01
13	0.10627E+02	0.21512E+01
14	0.12036E+02	0.22875E+01
15	0.13130E+02	0.24044E+01
16	0.13439E+02	0.24387E+01
17	0.14791E+02	0.25939E+01
18	0.16091E+02	0.27495E+01
19	0.16598E+02	0.28118E+01
20	0.17960E+02	0.29824E+01
21	0.18256E+02	0.30201E+01
22	0.19641E+02	0.31985E+01
23	0.20890E+02	0.33622E+01
24	0.22170E+02	0.35322E+01
25	0.23057E+02	0.36512E+01
26	0.23492E+02	0.37098E+01
27	0.23625E+02	0.37279E+01
28	0.24181E+02	0.38031E+01
29	0.25320E+02	0.39581E+01
30	0.26236E+02	0.40837E+01
31	0.26733E+02	0.41519E+01
32	0.26886E+02	0.41730E+01
33	0.27543E+02	0.42637E+01
34	0.32918E+02	0.50000E+01

BASE RESPONSE SPECTRA DATA

TOTAL NUMBER OF INPUT SPECTRUM CURVE = 34

MAXIMUM NUMBER OF DEFINITION POINTS IN INPUT SPECTRUM CURVES = 34

SPECTRUM SCALE FACTOR = 0.38640E+03

RIGID FREQUENCY = 0.28180E+02

SPECTRUM PARAMETERS

CURVE NO 1 F1 = 2.40877 F2 = 23.67120 FL = 1.44586 FH = 6.85301

INPUT SPECTRUM CURVE NUMBER = 1

NUMBER OF DEFINITION POINTS = 34

DAMPING RATIO FOR THIS CURVE = 0.19000E-01

INPUT POINT	FREQUENCY (HZ)	INPUT SPECTRAL ACCELERATION	CALCULATED VELOCITY SPECTRAL ACCELERATION
1	0.1315E+01	0.3012E+00	0.3313E+00
2	0.1587E+01	0.3829E+00	0.3829E+00
3	0.2801E+01	0.7058E+00	0.7102E+00
4	0.3430E+01	0.5727E+00	0.5851E+00
5	0.3601E+01	0.5737E+00	0.5880E+00
6	0.3898E+01	0.5001E+00	0.5146E+00
7	0.4259E+01	0.6502E+00	0.6707E+00
8	0.5689E+01	0.4877E+00	0.4985E+00
9	0.7468E+01	0.4020E+00	0.3960E+00
10	0.8071E+01	0.3116E+00	0.3021E+00
11	0.8307E+01	0.2817E+00	0.2731E+00
12	0.1018E+02	0.2340E+00	0.2121E+00
13	0.1063E+02	0.2189E+00	0.1953E+00
14	0.1204E+02	0.2282E+00	0.1928E+00
15	0.1313E+02	0.2135E+00	0.1722E+00
16	0.1344E+02	0.2076E+00	0.1652E+00
17	0.1479E+02	0.1953E+00	0.1456E+00
18	0.1609E+02	0.1860E+00	0.1292E+00
19	0.1660E+02	0.1877E+00	0.1266E+00
20	0.1796E+02	0.1842E+00	0.1136E+00
21	0.1826E+02	0.1845E+00	0.1113E+00
22	0.1964E+02	0.1895E+00	0.1021E+00
23	0.2089E+02	0.1867E+00	0.8853E-01
24	0.2217E+02	0.1832E+00	0.7310E-01
25	0.2306E+02	0.1867E+00	0.6318E-01
26	0.2349E+02	0.1890E+00	0.5756E-01
27	0.2362E+02	0.1895E+00	0.5562E-01
28	0.2418E+02	0.1908E+00	0.5407E-01
29	0.2532E+02	0.1902E+00	0.5147E-01
30	0.2624E+02	0.1903E+00	0.4970E-01
31	0.2673E+02	0.1895E+00	0.4857E-01
32	0.2689E+02	0.1889E+00	0.4815E-01
33	0.2754E+02	0.1853E+00	0.4510E-01
34	0.3292E+02	0.1829E+00	0.3808E-01

SPECTRUM PARAMETERS

CURVE NO 2 F1 = 2.40877 F2 = 23.67120 FL = 1.43621 FH = 6.85301

INPUT SPECTRUM CURVE NUMBER = 2

NUMBER OF DEFINITION POINTS = 34

DAMPING RATIO FOR THIS CURVE = 0.19400E-01

INPUT POINT	FREQUENCY (HZ)	INPUT SPECTRAL ACCELERATION	CALCULATED VELOCITY SPECTRAL ACCELERATION
1	0.1315E+01	0.2999E+00	0.3277E+00
2	0.1587E+01	0.3817E+00	0.3817E+00
3	0.2801E+01	0.6982E+00	0.7027E+00
4	0.3430E+01	0.5684E+00	0.5810E+00
5	0.3601E+01	0.5694E+00	0.5839E+00
6	0.3898E+01	0.4969E+00	0.5117E+00
7	0.4259E+01	0.6423E+00	0.6631E+00
8	0.5689E+01	0.4865E+00	0.4976E+00
9	0.7468E+01	0.3988E+00	0.3928E+00
10	0.8071E+01	0.3091E+00	0.2995E+00
11	0.8307E+01	0.2820E+00	0.2714E+00
12	0.1016E+02	0.2334E+00	0.2114E+00
13	0.1063E+02	0.2183E+00	0.1946E+00
14	0.1204E+02	0.2264E+00	0.1910E+00
15	0.1313E+02	0.2129E+00	0.1715E+00
16	0.1344E+02	0.2071E+00	0.1645E+00
17	0.1479E+02	0.1952E+00	0.1452E+00
18	0.1609E+02	0.1862E+00	0.1290E+00
19	0.1660E+02	0.1877E+00	0.1262E+00
20	0.1796E+02	0.1842E+00	0.1133E+00
21	0.1826E+02	0.1846E+00	0.1111E+00
22	0.1964E+02	0.1895E+00	0.1018E+00
23	0.2089E+02	0.1867E+00	0.8833E-01
24	0.2217E+02	0.1832E+00	0.7298E-01
25	0.2306E+02	0.1867E+00	0.6310E-01
26	0.2349E+02	0.1890E+00	0.5753E-01
27	0.2362E+02	0.1895E+00	0.5560E-01
28	0.2418E+02	0.1907E+00	0.5406E-01
29	0.2532E+02	0.1902E+00	0.5147E-01
30	0.2624E+02	0.1902E+00	0.4969E-01

31	0.2673E+02	0.1894E+00	0.4856E-01
32	0.2689E+02	0.1889E+00	0.4814E-01
33	0.2754E+02	0.1853E+00	0.4611E-01
34	0.3292E+02	0.1829E+00	0.3809E-01

SPECTRUM PARAMETERS

CURVE NO 3 F1 = 2.40877 F2 = 23.67120 FL = 1.43526 FH = 6.85301

INPUT SPECTRUM CURVE NUMBER = 3

NUMBER OF DEFINITION POINTS = 34

DAMPING RATIO FOR THIS CURVE = 0.19441E-01

INPUT POINT	FREQUENCY (HZ)	INPUT SPECTRAL ACCELERATION	CALCULATED VELOCITY SPECTRAL ACCELERATION
1	0.1315E+01	0.2998E+00	0.3273E+00
2	0.1587E+01	0.3816E+00	0.3816E+00
3	0.2801E+01	0.6975E+00	0.7020E+00
4	0.3430E+01	0.5680E+00	0.5806E+00
5	0.3601E+01	0.5649E+00	0.5835E+00
6	0.3898E+01	0.4966E+00	0.5114E+00
7	0.4259E+01	0.6415E+00	0.6623E+00
8	0.5689E+01	0.4864E+00	0.4975E+00
9	0.7468E+01	0.3934E+00	0.3925E+00
10	0.8071E+01	0.3089E+00	0.2993E+00
11	0.8307E+01	0.2818E+00	0.2712E+00
12	0.1018E+02	0.2333E+00	0.2113E+00
13	0.1063E+02	0.2183E+00	0.1965E+00
14	0.1204E+02	0.2262E+00	0.1909E+00
15	0.1313E+02	0.2129E+00	0.1714E+00
16	0.1344E+02	0.2071E+00	0.1644E+00
17	0.1479E+02	0.1952E+00	0.1452E+00
18	0.1609E+02	0.1862E+00	0.1290E+00
19	0.1660E+02	0.1877E+00	0.1262E+00
20	0.1796E+02	0.1842E+00	0.1133E+00
21	0.1826E+02	0.1846E+00	0.1111E+00
22	0.1964E+02	0.1895E+00	0.1018E+00
23	0.2089E+02	0.1867E+00	0.8831E-01
24	0.2217E+02	0.1832E+00	0.7297E-01
25	0.2306E+02	0.1867E+00	0.6309E-01
26	0.2349E+02	0.1890E+00	0.5752E-01
27	0.2362E+02	0.1895E+00	0.5559E-01
28	0.2418E+02	0.1907E+00	0.5405E-01
29	0.2532E+02	0.1902E+00	0.5147E-01
30	0.2624E+02	0.1902E+00	0.4969E-01
31	0.2673E+02	0.1894E+00	0.4856E-01
32	0.2689E+02	0.1889E+00	0.4814E-01
33	0.2754E+02	0.1853E+00	0.4611E-01
34	0.3292E+02	0.1829E+00	0.3809E-01

SPECTRUM PARAMETERS

CURVE NO 4 F1 = 2.40877 F2 = 23.67120 FL = 1.43032 FH = 6.85301

INPUT SPECTRUM CURVE NUMBER = 4

NUMBER OF DEFINITION POINTS = 34

DAMPING RATIO FOR THIS CURVE = 0.19651E-01

INPUT POINT	FREQUENCY (HZ)	INPUT SPECTRAL ACCELERATION	CALCULATED VELOCITY SPECTRAL ACCELERATION
1	0.1315E+01	0.2991E+00	0.3255E+00
2	0.1587E+01	0.3809E+00	0.3809E+00
3	0.2801E+01	0.6936E+00	0.6981E+00
4	0.3430E+01	0.5658E+00	0.5785E+00
5	0.3601E+01	0.5666E+00	0.5813E+00
6	0.3898E+01	0.4950E+00	0.5099E+00
7	0.4259E+01	0.6375E+00	0.6584E+00
8	0.5689E+01	0.4859E+00	0.4970E+00
9	0.7468E+01	0.3968E+00	0.3908E+00
10	0.8071E+01	0.3076E+00	0.2979E+00
11	0.8307E+01	0.2810E+00	0.2703E+00
12	0.1018E+02	0.2330E+00	0.2109E+00
13	0.1063E+02	0.2180E+00	0.1941E+00
14	0.1204E+02	0.2253E+00	0.1899E+00
15	0.1313E+02	0.2126E+00	0.1710E+00
16	0.1344E+02	0.2068E+00	0.1641E+00
17	0.1479E+02	0.1952E+00	0.1450E+00
18	0.1609E+02	0.1863E+00	0.1289E+00
19	0.1660E+02	0.1876E+00	0.1260E+00
20	0.1796E+02	0.1842E+00	0.1131E+00
21	0.1826E+02	0.1846E+00	0.1109E+00
22	0.1964E+02	0.1895E+00	0.1017E+00
23	0.2089E+02	0.1867E+00	0.8820E-01
24	0.2217E+02	0.1833E+00	0.7291E-01
25	0.2306E+02	0.1867E+00	0.6306E-01
26	0.2349E+02	0.1890E+00	0.5750E-01
27	0.2362E+02	0.1894E+00	0.5558E-01
28	0.2418E+02	0.1907E+00	0.5405E-01
29	0.2532E+02	0.1902E+00	0.5147E-01
30	0.2624E+02	0.1902E+00	0.4968E-01
31	0.2673E+02	0.1894E+00	0.4856E-01

32	0.2689E+02	0.1888E+00	0.4811E-01
33	0.2754E+02	0.1853E+00	0.4611E-01
34	0.3292E+02	0.1830E+00	0.3809E-01

SPECTRUM PARAMETERS

CURVE NO 5 F1 = 2.40877 F2 = 23.67120 FL = 1.42747 FH = 6.85301

INPUT SPECTRUM CURVE NUMBER = 5

NUMBER OF DEFINITION POINTS = 34

DAMPING RATIO FOR THIS CURVE = 0.19775E-01

INPUT POINT	FREQUENCY (HZ)	INPUT SPECTRAL ACCELERATION	CALCULATED VELOCITY SPECTRAL ACCELERATION
1	0.1315E+01	0.2988E+00	0.3244E+00
2	0.1587E+01	0.3806E+00	0.3806E+00
3	0.2801E+01	0.6913E+00	0.6959E+00
4	0.3430E+01	0.5645E+00	0.5773E+00
5	0.3601E+01	0.5653E+00	0.5800E+00
6	0.3898E+01	0.4940E+00	0.5090E+00
7	0.4259E+01	0.6351E+00	0.6561E+00
8	0.5689E+01	0.4855E+00	0.4967E+00
9	0.7468E+01	0.3958E+00	0.3898E+00
10	0.8071E+01	0.3068E+00	0.2972E+00
11	0.8307E+01	0.2805E+00	0.2698E+00
12	0.1018E+02	0.2329E+00	0.2107E+00
13	0.1063E+02	0.2178E+00	0.1939E+00
14	0.1204E+02	0.2248E+00	0.1894E+00
15	0.1313E+02	0.2124E+00	0.1708E+00
16	0.1344E+02	0.2067E+00	0.1638E+00
17	0.1479E+02	0.1951E+00	0.1449E+00
18	0.1609E+02	0.1863E+00	0.1289E+00
19	0.1660E+02	0.1878E+00	0.1259E+00
20	0.1796E+02	0.1842E+00	0.1130E+00
21	0.1826E+02	0.1846E+00	0.1109E+00
22	0.1964E+02	0.1895E+00	0.1016E+00
23	0.2089E+02	0.1867E+00	0.8814E-01
24	0.2217E+02	0.1833E+00	0.7288E-01
25	0.2306E+02	0.1867E+00	0.6304E-01
26	0.2349E+02	0.1889E+00	0.5749E-01
27	0.2362E+02	0.1894E+00	0.5558E-01
28	0.2418E+02	0.1907E+00	0.5404E-01
29	0.2532E+02	0.1902E+00	0.5147E-01
30	0.2624E+02	0.1902E+00	0.4968E-01
31	0.2673E+02	0.1894E+00	0.4856E-01
32	0.2689E+02	0.1888E+00	0.4813E-01
33	0.2754E+02	0.1853E+00	0.4612E-01
34	0.3292E+02	0.1830E+00	0.3809E-01

SPECTRUM PARAMETERS

CURVE NO 6 F1 = 2.40877 F2 = 23.67120 FL = 1.39888 FH = 6.85301

INPUT SPECTRUM CURVE NUMBER = 6

NUMBER OF DEFINITION POINTS = 34

DAMPING RATIO FOR THIS CURVE = 0.21076E-01

INPUT POINT	FREQUENCY (HZ)	INPUT SPECTRAL ACCELERATION	CALCULATED VELOCITY SPECTRAL ACCELERATION
1	0.1315E+01	0.2948E+00	0.3137E+00
2	0.1587E+01	0.3768E+00	0.3768E+00
3	0.2801E+01	0.6684E+00	0.6733E+00
4	0.3430E+01	0.5512E+00	0.5647E+00
5	0.3601E+01	0.5515E+00	0.5670E+00
6	0.3898E+01	0.4841E+00	0.4999E+00
7	0.4259E+01	0.6116E+00	0.6332E+00
8	0.5689E+01	0.4818E+00	0.4935E+00
9	0.7468E+01	0.3859E+00	0.3798E+00
10	0.8071E+01	0.2993E+00	0.2895E+00
11	0.8307E+01	0.2754E+00	0.2645E+00
12	0.1018E+02	0.2312E+00	0.2084E+00
13	0.1063E+02	0.2160E+00	0.1915E+00
14	0.1204E+02	0.2195E+00	0.1840E+00
15	0.1313E+02	0.2108E+00	0.1685E+00
16	0.1344E+02	0.2052E+00	0.1617E+00
17	0.1479E+02	0.1948E+00	0.1435E+00
18	0.1609E+02	0.1869E+00	0.1283E+00
19	0.1660E+02	0.1875E+00	0.1249E+00
20	0.1796E+02	0.1843E+00	0.1122E+00
21	0.1826E+02	0.1848E+00	0.1101E+00
22	0.1964E+02	0.1894E+00	0.1007E+00
23	0.2089E+02	0.1867E+00	0.8750E-01
24	0.2217E+02	0.1835E+00	0.7252E-01
25	0.2306E+02	0.1867E+00	0.6281E-01
26	0.2349E+02	0.1888E+00	0.5734E-01
27	0.2362E+02	0.1893E+00	0.5551E-01
28	0.2418E+02	0.1905E+00	0.5399E-01
29	0.2532E+02	0.1901E+00	0.5146E-01
30	0.2624E+02	0.1901E+00	0.4965E-01
31	0.2673E+02	0.1893E+00	0.4852E-01
32	0.2689E+02	0.1888E+00	0.4811E-01

33	0.2754E+02	0.1855E+00	0.4614E-01
34	0.3292E+02	0.1830E+00	0.3810E-01

SPECTRUM PARAMETERS

CURVE NO 7 F1 = 2.40877 F2 = 23.67120 FL = 1.39814 FH = 6.85301

INPUT SPECTRUM CURVE NUMBER = 7

NUMBER OF DEFINITION POINTS = 34

DAMPING RATIO FOR THIS CURVE = 0.21110E-01

INPUT POINT	FREQUENCY (HZ)	INPUT SPECTRAL ACCELERATION	CALCULATED VELOCITY SPECTRAL ACCELERATION
1	0.1315E+01	0.2947E+00	0.3134E+00
2	0.1587E+01	0.3767E+00	0.3767E+00
3	0.2801E+01	0.6679E+00	0.6727E+00
4	0.3430E+01	0.5508E+00	0.5644E+00
5	0.3601E+01	0.5511E+00	0.5666E+00
6	0.3898E+01	0.4838E+00	0.4996E+00
7	0.4259E+01	0.6110E+00	0.6326E+00
8	0.5689E+01	0.4817E+00	0.4934E+00
9	0.7468E+01	0.3857E+00	0.3796E+00
10	0.8071E+01	0.2991E+00	0.2893E+00
11	0.8307E+01	0.2753E+00	0.2644E+00
12	0.1018E+02	0.2311E+00	0.2084E+00
13	0.1063E+02	0.2160E+00	0.1915E+00
14	0.1204E+02	0.2193E+00	0.1838E+00
15	0.1313E+02	0.2108E+00	0.1684E+00
16	0.1344E+02	0.2052E+00	0.1616E+00
17	0.1479E+02	0.1948E+00	0.1436E+00
18	0.1609E+02	0.1869E+00	0.1283E+00
19	0.1660E+02	0.1875E+00	0.1248E+00
20	0.1796E+02	0.1843E+00	0.1122E+00
21	0.1826E+02	0.1848E+00	0.1101E+00
22	0.1964E+02	0.1894E+00	0.1007E+00
23	0.2089E+02	0.1867E+00	0.8748E-01
24	0.2217E+02	0.1835E+00	0.7252E-01
25	0.2306E+02	0.1867E+00	0.6281E-01
26	0.2349E+02	0.1888E+00	0.5737E-01
27	0.2362E+02	0.1893E+00	0.5551E-01
28	0.2418E+02	0.1905E+00	0.5398E-01
29	0.2532E+02	0.1901E+00	0.5146E-01
30	0.2624E+02	0.1901E+00	0.4965E-01
31	0.2673E+02	0.1891E+00	0.4852E-01
32	0.2689E+02	0.1887E+00	0.4811E-01
33	0.2754E+02	0.1855E+00	0.4614E-01
34	0.3292E+02	0.1830E+00	0.3810E-01

SPECTRUM PARAMETERS

CURVE NO 8 F1 = 2.40234 F2 = 23.67120 FL = 1.39360 FH = 6.84299

INPUT SPECTRUM CURVE NUMBER = 8

NUMBER OF DEFINITION POINTS = 34

DAMPING RATIO FOR THIS CURVE = 0.21512E-01

INPUT POINT	FREQUENCY (HZ)	INPUT SPECTRAL ACCELERATION	CALCULATED VELOCITY SPECTRAL ACCELERATION
1	0.1315E+01	0.2935E+00	0.3111E+00
2	0.1587E+01	0.3756E+00	0.3756E+00
3	0.2801E+01	0.6612E+00	0.6663E+00
4	0.3430E+01	0.5468E+00	0.5608E+00
5	0.3601E+01	0.5470E+00	0.5628E+00
6	0.3898E+01	0.4808E+00	0.4970E+00
7	0.4259E+01	0.6041E+00	0.6260E+00
8	0.5689E+01	0.4805E+00	0.4923E+00
9	0.7468E+01	0.3827E+00	0.3765E+00
10	0.8071E+01	0.2968E+00	0.2869E+00
11	0.8307E+01	0.2739E+00	0.2628E+00
12	0.1018E+02	0.2307E+00	0.2076E+00
13	0.1063E+02	0.2154E+00	0.1907E+00
14	0.1204E+02	0.2178E+00	0.1822E+00
15	0.1313E+02	0.2103E+00	0.1677E+00
16	0.1344E+02	0.2048E+00	0.1609E+00
17	0.1479E+02	0.1947E+00	0.1431E+00
18	0.1609E+02	0.1870E+00	0.1280E+00
19	0.1660E+02	0.1874E+00	0.1244E+00
20	0.1796E+02	0.1843E+00	0.1118E+00
21	0.1826E+02	0.1849E+00	0.1098E+00
22	0.1964E+02	0.1894E+00	0.1004E+00
23	0.2089E+02	0.1867E+00	0.8721E-01
24	0.2217E+02	0.1835E+00	0.7233E-01
25	0.2306E+02	0.1867E+00	0.6266E-01
26	0.2349E+02	0.1888E+00	0.5727E-01
27	0.2362E+02	0.1892E+00	0.5541E-01
28	0.2418E+02	0.1904E+00	0.5389E-01
29	0.2532E+02	0.1901E+00	0.5138E-01
30	0.2624E+02	0.1900E+00	0.4957E-01
31	0.2673E+02	0.1892E+00	0.4844E-01
32	0.2689E+02	0.1887E+00	0.4803E-01
33	0.2754E+02	0.1855E+00	0.4608E-01

34	0.3292E+02	0.1830E+00	0.3806E-01

SPECTRUM PARAMETERS

CURVE NO 9 F1 = 2.38569 F2 = 23.67120 FL = 1.39506 FH = 6.81703

INPUT SPECTRUM CURVE NUMBER = 9

NUMBER OF DEFINITION POINTS = 34

DAMPING RATIO FOR THIS CURVE = 0.21920E-01

INPUT POINT	FREQUENCY (HZ)	INPUT SPECTRAL ACCELERATION	CALCULATED VELOCITY SPECTRAL ACCELERATION
1	0.1315E+01	0.2923E+00	0.3102E+00
2	0.1587E+01	0.3744E+00	0.3744E+00
3	0.2801E+01	0.6546E+00	0.6601E+00
4	0.3430E+01	0.5428E+00	0.5573E+00
5	0.3601E+01	0.5428E+00	0.5592E+00
6	0.3898E+01	0.4779E+00	0.4944E+00
7	0.4259E+01	0.5973E+00	0.6195E+00
8	0.5689E+01	0.4793E+00	0.4911E+00
9	0.7468E+01	0.3798E+00	0.3732E+00
10	0.8071E+01	0.2947E+00	0.2844E+00
11	0.8307E+01	0.2724E+00	0.2610E+00
12	0.1018E+02	0.2302E+00	0.2067E+00
13	0.1063E+02	0.2149E+00	0.1898E+00
14	0.1204E+02	0.2162E+00	0.1803E+00
15	0.1313E+02	0.2099E+00	0.1668E+00
16	0.1344E+02	0.2044E+00	0.1601E+00
17	0.1479E+02	0.1946E+00	0.1425E+00
18	0.1609E+02	0.1872E+00	0.1276E+00
19	0.1660E+02	0.1874E+00	0.1239E+00
20	0.1796E+02	0.1844E+00	0.1114E+00
21	0.1826E+02	0.1849E+00	0.1093E+00
22	0.1964E+02	0.1894E+00	0.9993E-01
23	0.2089E+02	0.1867E+00	0.8681E-01
24	0.2217E+02	0.1836E+00	0.7203E-01
25	0.2306E+02	0.1867E+00	0.6238E-01
26	0.2349E+02	0.1887E+00	0.5703E-01
27	0.2362E+02	0.1892E+00	0.5518E-01
28	0.2418E+02	0.1904E+00	0.5367E-01
29	0.2532E+02	0.1901E+00	0.5118E-01
30	0.2624E+02	0.1900E+00	0.4937E-01
31	0.2673E+02	0.1892E+00	0.4825E-01
32	0.2689E+02	0.1887E+00	0.4784E-01
33	0.2754E+02	0.1855E+00	0.4591E-01
34	0.3292E+02	0.1830E+00	0.3790E-01

SPECTRUM PARAMETERS

CURVE NO 10 F1 = 2.35031 F2 = 23.67120 FL = 1.39833 FH = 6.76190

INPUT SPECTRUM CURVE NUMBER = 10

NUMBER OF DEFINITION POINTS = 34

DAMPING RATIO FOR THIS CURVE = 0.22825E-01

INPUT POINT	FREQUENCY (HZ)	INPUT SPECTRAL ACCELERATION	CALCULATED VELOCITY SPECTRAL ACCELERATION
1	0.1315E+01	0.2896E+00	0.3081E+00
2	0.1587E+01	0.3719E+00	0.3719E+00
3	0.2801E+01	0.6405E+00	0.6471E+00
4	0.3430E+01	0.5341E+00	0.5498E+00
5	0.3601E+01	0.5338E+00	0.5513E+00
6	0.3898E+01	0.4713E+00	0.4888E+00
7	0.4259E+01	0.5829E+00	0.6057E+00
8	0.5689E+01	0.4766E+00	0.4884E+00
9	0.7468E+01	0.3735E+00	0.3662E+00
10	0.8071E+01	0.2902E+00	0.2793E+00
11	0.8307E+01	0.2693E+00	0.2572E+00
12	0.1018E+02	0.2292E+00	0.2048E+00
13	0.1063E+02	0.2138E+00	0.1876E+00
14	0.1204E+02	0.2131E+00	0.1776E+00
15	0.1313E+02	0.2089E+00	0.1648E+00
16	0.1344E+02	0.2036E+00	0.1584E+00
17	0.1479E+02	0.1943E+00	0.1412E+00
18	0.1609E+02	0.1875E+00	0.1267E+00
19	0.1660E+02	0.1873E+00	0.1228E+00
20	0.1796E+02	0.1844E+00	0.1104E+00
21	0.1826E+02	0.1850E+00	0.1083E+00
22	0.1964E+02	0.1894E+00	0.9894E-01
23	0.2089E+02	0.1867E+00	0.8596E-01
24	0.2217E+02	0.1837E+00	0.7136E-01
25	0.2306E+02	0.1867E+00	0.6182E-01
26	0.2349E+02	0.1886E+00	0.5652E-01
27	0.2362E+02	0.1891E+00	0.5470E-01
28	0.2418E+02	0.1903E+00	0.5320E-01
29	0.2532E+02	0.1901E+00	0.5076E-01
30	0.2624E+02	0.1899E+00	0.4895E-01
31	0.2673E+02	0.1891E+00	0.4783E-01
32	0.2689E+02	0.1886E+00	0.4744E-01
33	0.2754E+02	0.1856E+00	0.4556E-01
34	0.3292E+02	0.1830E+00	0.3760E-01

SPECTRUM PARAMETERS

CURVE NO 11 F1 = 2.34840 F2 = 23.67120 FL = 1.39848 FH = 6.75894

INPUT SPECTRUM CURVE NUMBER = 11

NUMBER OF DEFINITION POINTS = 34

DAMPING RATIO FOR THIS CURVE = 0.22875E-01

INPUT POINT	FREQUENCY (HZ)	INPUT SPECTRAL ACCELERATION	CALCULATED VELOCITY SPECTRAL ACCELERATION
1	0.1315E+01	0.2894E+00	0.3079E+00
2	0.1587E+01	0.3717E+00	0.3717E+00
3	0.2801E+01	0.6397E+00	0.6464E+00
4	0.3430E+01	0.5337E+00	0.5494E+00
5	0.3601E+01	0.5333E+00	0.5508E+00
6	0.3898E+01	0.4710E+00	0.4865E+00
7	0.4259E+01	0.5821E+00	0.6050E+00
8	0.5689E+01	0.4765E+00	0.4882E+00
9	0.7468E+01	0.3731E+00	0.3658E+00
10	0.8071E+01	0.2899E+00	0.2790E+00
11	0.8307E+01	0.2692E+00	0.2570E+00
12	0.1018E+02	0.2291E+00	0.2047E+00
13	0.1063E+02	0.2137E+00	0.1877E+00
14	0.1204E+02	0.2129E+00	0.1764E+00
15	0.1313E+02	0.2088E+00	0.1647E+00
16	0.1344E+02	0.2036E+00	0.1583E+00
17	0.1479E+02	0.1943E+00	0.1411E+00
18	0.1609E+02	0.1875E+00	0.1267E+00
19	0.1660E+02	0.1871E+00	0.1227E+00
20	0.1796E+02	0.1844E+00	0.1103E+00
21	0.1826E+02	0.1850E+00	0.1083E+00
22	0.1964E+02	0.1894E+00	0.9889E-01
23	0.2089E+02	0.1867E+00	0.8591E-01
24	0.2217E+02	0.1837E+00	0.7134E-01
25	0.2306E+02	0.1867E+00	0.6179E-01
26	0.2349E+02	0.1886E+00	0.5649E-01
27	0.2362E+02	0.1891E+00	0.5468E-01
28	0.2418E+02	0.1903E+00	0.5316E-01
29	0.2532E+02	0.1900E+00	0.5073E-01
30	0.2624E+02	0.1899E+00	0.4893E-01
31	0.2673E+02	0.1891E+00	0.4781E-01
32	0.2689E+02	0.1886E+00	0.4742E-01
33	0.2754E+02	0.1856E+00	0.4554E-01
34	0.3292E+02	0.1830E+00	0.3756E-01

SPECTRUM PARAMETERS

CURVE NO 12 F1 = 2.32714 F2 = 23.67120 FL = 1.40049 FH = 6.72581

INPUT SPECTRUM CURVE NUMBER = 12

NUMBER OF DEFINITION POINTS = 34

DAMPING RATIO FOR THIS CURVE = 0.23447E-01

INPUT POINT	FREQUENCY (HZ)	INPUT SPECTRAL ACCELERATION	CALCULATED VELOCITY SPECTRAL ACCELERATION
1	0.1315E+01	0.2878E+00	0.3066E+00
2	0.1587E+01	0.3701E+00	0.3701E+00
3	0.2801E+01	0.6312E+00	0.6386E+00
4	0.3430E+01	0.5263E+00	0.5447E+00
5	0.3601E+01	0.5277E+00	0.5459E+00
6	0.3898E+01	0.4669E+00	0.4849E+00
7	0.4259E+01	0.5741E+00	0.5973E+00
8	0.5689E+01	0.4747E+00	0.4864E+00
9	0.7468E+01	0.3693E+00	0.3615E+00
10	0.8071E+01	0.2872E+00	0.2759E+00
11	0.8307E+01	0.2673E+00	0.2547E+00
12	0.1018E+02	0.2285E+00	0.2035E+00
13	0.1063E+02	0.2130E+00	0.1864E+00
14	0.1204E+02	0.2110E+00	0.1741E+00
15	0.1313E+02	0.2083E+00	0.1635E+00
16	0.1344E+02	0.2032E+00	0.1572E+00
17	0.1479E+02	0.1942E+00	0.1403E+00
18	0.1609E+02	0.1877E+00	0.1261E+00
19	0.1660E+02	0.1873E+00	0.1220E+00
20	0.1796E+02	0.1845E+00	0.1097E+00
21	0.1826E+02	0.1851E+00	0.1077E+00
22	0.1964E+02	0.1894E+00	0.9828E-01
23	0.2089E+02	0.1868E+00	0.8539E-01
24	0.2217E+02	0.1838E+00	0.7095E-01
25	0.2306E+02	0.1867E+00	0.6145E-01
26	0.2349E+02	0.1886E+00	0.5619E-01
27	0.2362E+02	0.1890E+00	0.5439E-01
28	0.2418E+02	0.1902E+00	0.5289E-01
29	0.2532E+02	0.1900E+00	0.5048E-01
30	0.2624E+02	0.1899E+00	0.4867E-01
31	0.2673E+02	0.1891E+00	0.4757E-01
32	0.2689E+02	0.1886E+00	0.4717E-01
33	0.2754E+02	0.1856E+00	0.4532E-01
34	0.3292E+02	0.1831E+00	0.3740E-01

SPECTRUM PARAMETERS

CURVE NO 13 F1 = 2.30579 F2 = 23.67120 FL = 1.40263 FH = 6.69254

INPUT SPECTRUM CURVE NUMBER = 13

NUMBER OF DEFINITION POINTS = 34

DAMPING RATIO FOR THIS CURVE = 0.24044E-01

INPUT POINT	FREQUENCY (HZ)	INPUT SPECTRAL ACCELERATION	CALCULATED VELOCITY SPECTRAL ACCELERATION
1	0.1315E+01	0.2861E+00	0.3053E+00
2	0.1587E+01	0.3685E+00	0.3685E+00
3	0.2801E+01	0.6226E+00	0.6307E+00
4	0.3430E+01	0.5228E+00	0.5399E+00
5	0.3601E+01	0.5220E+00	0.5409E+00
6	0.3898E+01	0.4627E+00	0.4813E+00
7	0.4259E+01	0.5694E+00	0.5931E+00
8	0.5689E+01	0.4729E+00	0.4845E+00
9	0.7468E+01	0.3656E+00	0.3574E+00
10	0.8071E+01	0.2845E+00	0.2727E+00
11	0.8307E+01	0.2654E+00	0.2524E+00
12	0.1018E+02	0.2279E+00	0.2024E+00
13	0.1063E+02	0.2124E+00	0.1852E+00
14	0.1204E+02	0.2092E+00	0.1719E+00
15	0.1313E+02	0.2077E+00	0.1623E+00
16	0.1344E+02	0.2027E+00	0.1561E+00
17	0.1479E+02	0.1941E+00	0.1395E+00
18	0.1609E+02	0.1876E+00	0.1255E+00
19	0.1660E+02	0.1872E+00	0.1213E+00
20	0.1796E+02	0.1845E+00	0.1091E+00
21	0.1826E+02	0.1852E+00	0.1071E+00
22	0.1964E+02	0.1893E+00	0.9766E-01
23	0.2089E+02	0.1868E+00	0.8486E-01
24	0.2217E+02	0.1839E+00	0.7055E-01
25	0.2306E+02	0.1866E+00	0.6110E-01
26	0.2349E+02	0.1885E+00	0.5588E-01
27	0.2362E+02	0.1890E+00	0.5410E-01
28	0.2418E+02	0.1901E+00	0.5261E-01
29	0.2532E+02	0.1900E+00	0.5022E-01
30	0.2624E+02	0.1898E+00	0.4842E-01
31	0.2673E+02	0.1890E+00	0.4732E-01
32	0.2689E+02	0.1885E+00	0.4693E-01
33	0.2754E+02	0.1856E+00	0.4511E-01
34	0.3292E+02	0.1831E+00	0.3722E-01

SPECTRUM PARAMETERS

CURVE NO 14 F1 = 2.29392 F2 = 23.67120 FL = 1.40383 FH = 6.67405

INPUT SPECTRUM CURVE NUMBER = 14

NUMBER OF DEFINITION POINTS = 34

DAMPING RATIO FOR THIS CURVE = 0.24387E-01

INPUT POINT	FREQUENCY (HZ)	INPUT SPECTRAL ACCELERATION	CALCULATED VELOCITY SPECTRAL ACCELERATION
1	0.1315E+01	0.2851E+00	0.3045E+00
2	0.1587E+01	0.3675E+00	0.3675E+00
3	0.2801E+01	0.6178E+00	0.6263E+00
4	0.3430E+01	0.5197E+00	0.5372E+00
5	0.3601E+01	0.5187E+00	0.5380E+00
6	0.3898E+01	0.4603E+00	0.4792E+00
7	0.4259E+01	0.5667E+00	0.5907E+00
8	0.5689E+01	0.4719E+00	0.4834E+00
9	0.7468E+01	0.3638E+00	0.3553E+00
10	0.8071E+01	0.2829E+00	0.2710E+00
11	0.8307E+01	0.2643E+00	0.2511E+00
12	0.1018E+02	0.2276E+00	0.2017E+00
13	0.1063E+02	0.2120E+00	0.1845E+00
14	0.1204E+02	0.2081E+00	0.1706E+00
15	0.1313E+02	0.2074E+00	0.1617E+00
16	0.1344E+02	0.2025E+00	0.1555E+00
17	0.1479E+02	0.1940E+00	0.1391E+00
18	0.1609E+02	0.1879E+00	0.1252E+00
19	0.1660E+02	0.1872E+00	0.1209E+00
20	0.1796E+02	0.1845E+00	0.1087E+00
21	0.1826E+02	0.1852E+00	0.1067E+00
22	0.1964E+02	0.1893E+00	0.9731E-01
23	0.2089E+02	0.1868E+00	0.8457E-01
24	0.2217E+02	0.1839E+00	0.7032E-01
25	0.2306E+02	0.1866E+00	0.6091E-01
26	0.2349E+02	0.1885E+00	0.5571E-01
27	0.2362E+02	0.1889E+00	0.5394E-01
28	0.2418E+02	0.1901E+00	0.5246E-01
29	0.2532E+02	0.1900E+00	0.5008E-01
30	0.2624E+02	0.1898E+00	0.4828E-01
31	0.2673E+02	0.1890E+00	0.4718E-01
32	0.2689E+02	0.1885E+00	0.4679E-01
33	0.2754E+02	0.1857E+00	0.4499E-01
34	0.3292E+02	0.1831E+00	0.3712E-01

SPECTRUM PARAMETERS

CURVE NO 15 F1 = 2.24338 F2 = 23.67120 FL = 1.40261 FH = 6.59530

INPUT SPECTRUM CURVE NUMBER = 15

NUMBER OF DEFINITION POINTS = 34

DAMPING RATIO FOR THIS CURVE = 0.25939E-01

INPUT POINT	FREQUENCY (HZ)	INPUT SPECTRAL ACCELERATION	CALCULATED VELOCITY SPECTRAL ACCELERATION
1	0.1315E+01	0.2821E+00	0.3010E+00
2	0.1587E+01	0.3633E+00	0.3633E+00
3	0.2801E+01	0.5973E+00	0.6077E+00
4	0.3430E+01	0.5060E+00	0.5253E+00
5	0.3601E+01	0.5044E+00	0.5253E+00
6	0.3898E+01	0.4500E+00	0.4701E+00
7	0.4259E+01	0.5551E+00	0.5804E+00
8	0.5689E+01	0.4670E+00	0.4784E+00
9	0.7468E+01	0.3559E+00	0.3462E+00
10	0.8071E+01	0.2763E+00	0.2633E+00
11	0.8307E+01	0.2597E+00	0.2455E+00
12	0.1018E+02	0.2261E+00	0.1988E+00
13	0.1063E+02	0.2103E+00	0.1815E+00
14	0.1204E+02	0.2054E+00	0.1667E+00
15	0.1313E+02	0.2060E+00	0.1588E+00
16	0.1344E+02	0.2014E+00	0.1529E+00
17	0.1479E+02	0.1936E+00	0.1371E+00
18	0.1609E+02	0.1884E+00	0.1238E+00
19	0.1660E+02	0.1872E+00	0.1192E+00
20	0.1796E+02	0.1846E+00	0.1072E+00
21	0.1826E+02	0.1851E+00	0.1052E+00
22	0.1964E+02	0.1893E+00	0.9580E-01
23	0.2089E+02	0.1868E+00	0.8328E-01
24	0.2217E+02	0.1841E+00	0.6935E-01
25	0.2306E+02	0.1866E+00	0.6007E-01
26	0.2349E+02	0.1884E+00	0.5498E-01
27	0.2362E+02	0.1888E+00	0.5326E-01
28	0.2418E+02	0.1899E+00	0.5179E-01
29	0.2532E+02	0.1899E+00	0.4947E-01
30	0.2624E+02	0.1896E+00	0.4767E-01
31	0.2673E+02	0.1888E+00	0.4659E-01
32	0.2689E+02	0.1884E+00	0.4621E-01
33	0.2754E+02	0.1857E+00	0.4447E-01
34	0.3292E+02	0.1831E+00	0.3669E-01

SPECTRUM PARAMETERS

CURVE NO 16 F1 = 2.22143 F2 = 23.67120 FL = 1.40170 FH = 6.56109

INPUT SPECTRUM CURVE NUMBER = 16

NUMBER OF DEFINITION POINTS = 34

DAMPING RATIO FOR THIS CURVE = 0.26665E-01

INPUT POINT	FREQUENCY (HZ)	INPUT SPECTRAL ACCELERATION	CALCULATED VELOCITY SPECTRAL ACCELERATION
1	0.1315E+01	0.2807E+00	0.2994E+00
2	0.1587E+01	0.3613E+00	0.3613E+00
3	0.2801E+01	0.5882E+00	0.5996E+00
4	0.3430E+01	0.4999E+00	0.5199E+00
5	0.3601E+01	0.4980E+00	0.5195E+00
6	0.3898E+01	0.4457E+00	0.4664E+00
7	0.4259E+01	0.5499E+00	0.5757E+00
8	0.5689E+01	0.4647E+00	0.4759E+00
9	0.7468E+01	0.3523E+00	0.3422E+00
10	0.8071E+01	0.2733E+00	0.2599E+00
11	0.8307E+01	0.2577E+00	0.2430E+00
12	0.1018E+02	0.2255E+00	0.1975E+00
13	0.1063E+02	0.2095E+00	0.1801E+00
14	0.1204E+02	0.2050E+00	0.1656E+00
15	0.1313E+02	0.2054E+00	0.1576E+00
16	0.1344E+02	0.2009E+00	0.1518E+00
17	0.1479E+02	0.1935E+00	0.1362E+00
18	0.1609E+02	0.1885E+00	0.1231E+00
19	0.1660E+02	0.1872E+00	0.1184E+00
20	0.1796E+02	0.1847E+00	0.1065E+00
21	0.1826E+02	0.1854E+00	0.1046E+00
22	0.1964E+02	0.1892E+00	0.9513E-01
23	0.2089E+02	0.1868E+00	0.8271E-01
24	0.2217E+02	0.1842E+00	0.6892E-01
25	0.2306E+02	0.1866E+00	0.5971E-01
26	0.2349E+02	0.1883E+00	0.5466E-01
27	0.2362E+02	0.1887E+00	0.5296E-01
28	0.2418E+02	0.1898E+00	0.5150E-01
29	0.2532E+02	0.1899E+00	0.4920E-01
30	0.2624E+02	0.1896E+00	0.4741E-01
31	0.2673E+02	0.1888E+00	0.4633E-01
32	0.2689E+02	0.1883E+00	0.4596E-01
33	0.2754E+02	0.1858E+00	0.4425E-01
34	0.3292E+02	0.183 E+00	0.3651E-01

SPECTRUM PARAMETERS

CURVE NO 17 F1 = 2.19744 F2 = 23.67120 FL = 1.40071 FH = 6.52372

INPUT SPECTRUM CURVE NUMBER = 17

NUMBER OF DEFINITION POINTS = 34

DAMPING RATIO FOR THIS CURVE = 0.27485E-01

INPUT POINT	FREQUENCY (HZ)	INPUT SPECTRAL ACCELERATION	CALCULATED VELOCITY SPECTRAL ACCELERATION
1	0.1315E+01	0.2792E+00	0.2975E+00
2	0.1587E+01	0.3591E+00	0.3591E+00
3	0.2801E+01	0.5783E+00	0.5907E+00
4	0.3430E+01	0.4930E+00	0.5137E+00
5	0.3601E+01	0.4907E+00	0.5130E+00
6	0.3898E+01	0.4408E+00	0.4621E+00
7	0.4259E+01	0.5442E+00	0.5705E+00
8	0.5689E+01	0.4621E+00	0.4731E+00
9	0.7468E+01	0.3484E+00	0.3377E+00
10	0.8071E+01	0.2701E+00	0.2561E+00
11	0.8307E+01	0.2555E+00	0.2402E+00
12	0.1018E+02	0.2248E+00	0.1961E+00
13	0.1063E+02	0.2087E+00	0.1786E+00
14	0.1204E+02	0.2044E+00	0.1643E+00
15	0.1313E+02	0.2047E+00	0.1562E+00
16	0.1344E+02	0.2004E+00	0.1505E+00
17	0.1479E+02	0.1933E+00	0.1352E+00
18	0.1609E+02	0.1887E+00	0.1224E+00
19	0.1660E+02	0.1872E+00	0.1176E+00
20	0.1796E+02	0.1847E+00	0.1058E+00
21	0.1826E+02	0.1855E+00	0.1038E+00
22	0.1964E+02	0.1892E+00	0.9438E-01
23	0.2089E+02	0.1868E+00	0.8207E-01
24	0.2217E+02	0.1843E+00	0.6845E-01
25	0.2306E+02	0.1866E+00	0.5931E-01
26	0.2349E+02	0.1883E+00	0.5432E-01
27	0.2362E+02	0.1887E+00	0.5264E-01
28	0.2418E+02	0.1897E+00	0.5118E-01
29	0.2532E+02	0.1898E+00	0.4891E-01
30	0.2624E+02	0.1895E+00	0.4712E-01
31	0.2673E+02	0.1887E+00	0.4605E-01
32	0.2689E+02	0.1883E+00	0.4568E-01
33	0.2754E+02	0.1858E+00	0.4401E-01
34	0.3292E+02	0.1832E+00	0.3630E-01

SPECTRUM PARAMETERS

CURVE NO 18 F1 = 2.18019 F2 = 23.67120 FL = 1.39996 FH = 6.49684

INPUT SPECTRUM CURVE NUMBER = 18

NUMBER OF DEFINITION POINTS = 34

DAMPING RATIO FOR THIS CURVE = 0.28118E-01

INPUT POINT	FREQUENCY (HZ)	INPUT SPECTRAL ACCELERATION	CALCULATED VELOCITY SPECTRAL ACCELERATION
1	0.1315E+01	0.2781E+00	0.2962E+00
2	0.1587E+01	0.3575E+00	0.3575E+00
3	0.2801E+01	0.5712E+00	0.5843E+00
4	0.3430E+01	0.4879E+00	0.5094E+00
5	0.3601E+01	0.4854E+00	0.5083E+00
6	0.3898E+01	0.4372E+00	0.4590E+00
7	0.4259E+01	0.5400E+00	0.5666E+00
8	0.5689E+01	0.4601E+00	0.4710E+00
9	0.7468E+01	0.3455E+00	0.3344E+00
10	0.8071E+01	0.2677E+00	0.2534E+00
11	0.8307E+01	0.2539E+00	0.2382E+00
12	0.1018E+02	0.2243E+00	0.1951E+00
13	0.1063E+02	0.2081E+00	0.1776E+00
14	0.1204E+02	0.2041E+00	0.1634E+00
15	0.1313E+02	0.2043E+00	0.1551E+00
16	0.1344E+02	0.2001E+00	0.1496E+00
17	0.1479E+02	0.1931E+00	0.1344E+00
18	0.1609E+02	0.1886E+00	0.1215E+00
19	0.1660E+02	0.1871E+00	0.1170E+00
20	0.1796E+02	0.1846E+00	0.1052E+00
21	0.1826E+02	0.1855E+00	0.1033E+00
22	0.1964E+02	0.1892E+00	0.9383E-01
23	0.2089E+02	0.1868E+00	0.8161E-01
24	0.2217E+02	0.1844E+00	0.6811E-01
25	0.2306E+02	0.1866E+00	0.5901E-01
26	0.2349E+02	0.1882E+00	0.5407E-01
27	0.2362E+02	0.1886E+00	0.5240E-01
28	0.2418E+02	0.1897E+00	0.5095E-01
29	0.2532E+02	0.1898E+00	0.4870E-01
30	0.2624E+02	0.1894E+00	0.4691E-01
31	0.2673E+02	0.1887E+00	0.4585E-01
32	0.2689E+02	0.1882E+00	0.4549E-01
33	0.2754E+02	0.1858E+00	0.4383E-01
34	0.3292E+02	0.1832E+00	0.3616E-01

SPECTRUM PARAMETERS

CURVE NO 19 F1 = 2.13601 F2 = 23.67120 FL = 1.39801 FH = 6.42800

INPUT SPECTRUM CURVE NUMBER = 19

NUMBER OF DEFINITION POINTS = 34

DAMPING RATIO FOR THIS CURVE = 0.29824E-01

INPUT POINT	FREQUENCY (HZ)	INPUT SPECTRAL ACCELERATION	CALCULATED VELOCITY SPECTRAL ACCELERATION
1	0.1315E+01	0.2750E+00	0.2925E+00
2	0.1587E+01	0.3531E+00	0.3531E+00
3	0.2801E+01	0.5527E+00	0.5678E+00
4	0.3430E+01	0.4746E+00	0.4976E+00
5	0.3601E+01	0.4713E+00	0.4955E+00
6	0.3898E+01	0.4276E+00	0.4504E+00
7	0.4259E+01	0.5288E+00	0.5564E+00
8	0.5689E+01	0.4547E+00	0.4652E+00
9	0.7468E+01	0.3379E+00	0.3257E+00
10	0.8071E+01	0.2615E+00	0.2463E+00
11	0.8307E+01	0.2496E+00	0.2329E+00
12	0.1018E+02	0.2229E+00	0.1923E+00
13	0.1063E+02	0.2067E+00	0.1748E+00
14	0.1204E+02	0.2031E+00	0.1610E+00
15	0.1313E+02	0.2031E+00	0.1525E+00
16	0.1344E+02	0.1993E+00	0.1474E+00
17	0.1479E+02	0.1928E+00	0.1325E+00
18	0.1609E+02	0.1891E+00	0.1204E+00
19	0.1660E+02	0.1871E+00	0.1154E+00
20	0.1796E+02	0.1849E+00	0.1034E+00
21	0.1826E+02	0.1856E+00	0.1019E+00
22	0.1964E+02	0.1891E+00	0.9240E-01
23	0.2089E+02	0.1868E+00	0.8041E-01
24	0.2217E+02	0.1845E+00	0.6722E-01
25	0.2306E+02	0.1866E+00	0.5826E-01
26	0.2349E+02	0.1881E+00	0.5342E-01
27	0.2362E+02	0.1885E+00	0.5180E-01
28	0.2418E+02	0.1895E+00	0.5037E-01
29	0.2532E+02	0.1897E+00	0.4816E-01
30	0.2624E+02	0.1893E+00	0.4637E-01
31	0.2673E+02	0.1885E+00	0.4533E-01
32	0.2689E+02	0.1881E+00	0.4498E-01
33	0.2754E+02	0.1859E+00	0.4338E-01
34	0.3292E+02	0.1833E+00	0.3579E-01

SPECTRUM PARAMETERS

CURVE NO 20 F1 = 2.12682 F2 = 23.67120 FL = 1.39757 FH = 6.41368

INPUT SPECTRUM CURVE NUMBER = 20

NUMBER OF DEFINITION POINTS = 34

DAMPING RATIO FOR THIS CURVE = 0.30201E-01

INPUT POINT	FREQUENCY (HZ)	INPUT SPECTRAL ACCELERATION	CALCULATED VELOCITY SPECTRAL ACCELERATION
1	0.1315E+01	0.2743E+00	0.2917E+00
2	0.1587E+01	0.3521E+00	0.3521E+00
3	0.2801E+01	0.5488E+00	0.5643E+00
4	0.3430E+01	0.4717E+00	0.4951E+00
5	0.3601E+01	0.4683E+00	0.4927E+00
6	0.3898E+01	0.4255E+00	0.4486E+00
7	0.4259E+01	0.5265E+00	0.5542E+00
8	0.5689E+01	0.4535E+00	0.4639E+00
9	0.7468E+01	0.3363E+00	0.3239E+00
10	0.8071E+01	0.2602E+00	0.2448E+00
11	0.8307E+01	0.2487E+00	0.2318E+00
12	0.1018E+02	0.2226E+00	0.1917E+00
13	0.1063E+02	0.2064E+00	0.1742E+00
14	0.1204E+02	0.2029E+00	0.1604E+00
15	0.1313E+02	0.2029E+00	0.1520E+00
16	0.1344E+02	0.1992E+00	0.1469E+00
17	0.1479E+02	0.1927E+00	0.1321E+00
18	0.1609E+02	0.1892E+00	0.1201E+00
19	0.1660E+02	0.1871E+00	0.1150E+00
20	0.1796E+02	0.1849E+00	0.1034E+00
21	0.1826E+02	0.1857E+00	0.1016E+00
22	0.1964E+02	0.1890E+00	0.9209E-01
23	0.2089E+02	0.1868E+00	0.8016E-01
24	0.2217E+02	0.1846E+00	0.6703E-01
25	0.2306E+02	0.1866E+00	0.5811E-01
26	0.2349E+02	0.1881E+00	0.5329E-01
27	0.2362E+02	0.1885E+00	0.5168E-01
28	0.2418E+02	0.1895E+00	0.5025E-01
29	0.2532E+02	0.1897E+00	0.4805E-01
30	0.2624E+02	0.1892E+00	0.4626E-01
31	0.2673E+02	0.1885E+00	0.4522E-01
32	0.2689E+02	0.1881E+00	0.4487E-01
33	0.2754E+02	0.1859E+00	0.4328E-01
34	0.3292E+02	0.1833E+00	0.3571E-01

SPECTRUM PARAMETERS

CURVE NO 21 F1 = 2.08563 F2 = 23.67120 FL = 1.39565 FH = 6.34950

INPUT SPECTRUM CURVE NUMBER = 21

NUMBER OF DEFINITION POINTS = 34

DAMPING RATIO FOR THIS CURVE = 0.31985E-01

INPUT POINT	FREQUENCY (HZ)	INPUT SPECTRAL ACCELERATION	CALCULATED VELOCITY SPECTRAL ACCELERATION
1	0.1315E+01	0.2712E+00	0.2880E+00
2	0.1587E+01	0.3476E+00	0.3476E+00
3	0.2801E+01	0.5312E+00	0.5488E+00
4	0.3430E+01	0.4586E+00	0.4834E+00
5	0.3601E+01	0.4544E+00	0.4800E+00
6	0.3898E+01	0.4160E+00	0.4400E+00
7	0.4259E+01	0.5156E+00	0.5442E+00
8	0.5689E+01	0.4478E+00	0.4577E+00
9	0.7468E+01	0.3290E+00	0.3155E+00
10	0.8071E+01	0.2543E+00	0.2380E+00
11	0.8307E+01	0.2447E+00	0.2268E+00
12	0.1018E+02	0.2213E+00	0.1890E+00
13	0.1063E+02	0.2050E+00	0.1716E+00
14	0.1204E+02	0.2020E+00	0.1581E+00
15	0.1313E+02	0.2019E+00	0.1495E+00
16	0.1344E+02	0.1985E+00	0.1447E+00
17	0.1479E+02	0.1924E+00	0.1302E+00
18	0.1609E+02	0.1896E+00	0.1186E+00
19	0.1660E+02	0.1872E+00	0.1135E+00
20	0.1796E+02	0.1850E+00	0.1020E+00
21	0.1826E+02	0.1858E+00	0.1002E+00
22	0.1964E+02	0.1889E+00	0.9070E-01
23	0.2089E+02	0.1868E+00	0.7900E-01
24	0.2217E+02	0.1847E+00	0.6618E-01
25	0.2306E+02	0.1865E+00	0.5740E-01
26	0.2349E+02	0.1880E+00	0.5267E-01
27	0.2362E+02	0.1884E+00	0.5112E-01
28	0.2418E+02	0.1893E+00	0.4970E-01
29	0.2532E+02	0.1896E+00	0.4754E-01
30	0.2624E+02	0.1891E+00	0.4576E-01
31	0.2673E+02	0.1884E+00	0.4474E-01
32	0.2689E+02	0.1880E+00	0.4440E-01
33	0.2754E+02	0.1859E+00	0.4286E-01
34	0.3292E+02	0.1833E+00	0.3536E-01

SPECTRUM PARAMETERS

CURVE NO 22 F1 = 2.05155 F2 = 23.67120 FL = 1.39393 FH = 6.29640

INPUT SPECTRUM CURVE NUMBER = 22

NUMBER OF DEFINITION POINTS = 34

DAMPING RATIO FOR THIS CURVE = 0.33622E-01

INPUT POINT	FREQUENCY (HZ)	INPUT SPECTRAL ACCELERATION	CALCULATED VELOCITY SPECTRAL ACCELERATION
1	0.1315E+01	0.2684E+00	0.2846E+00
2	0.1587E+01	0.3435E+00	0.3435E+00
3	0.2801E+01	0.5165E+00	0.5357E+00
4	0.3430E+01	0.4472E+00	0.4731E+00
5	0.3601E+01	0.4423E+00	0.4688E+00
6	0.3898E+01	0.4076E+00	0.4323E+00
7	0.4259E+01	0.5063E+00	0.5354E+00
8	0.5689E+01	0.4425E+00	0.4520E+00
9	0.7468E+01	0.3227E+00	0.3083E+00
10	0.8071E+01	0.2492E+00	0.2322E+00
11	0.8307E+01	0.2412E+00	0.2224E+00
12	0.1018E+02	0.2201E+00	0.1867E+00
13	0.1063E+02	0.2038E+00	0.1693E+00
14	0.1204E+02	0.2013E+00	0.1562E+00
15	0.1313E+02	0.2010E+00	0.1475E+00
16	0.1344E+02	0.1979E+00	0.1428E+00
17	0.1479E+02	0.1922E+00	0.1287E+00
18	0.1609E+02	0.1896E+00	0.1174E+00
19	0.1660E+02	0.1872E+00	0.1121E+00
20	0.1796E+02	0.1851E+00	0.1008E+00
21	0.1826E+02	0.1858E+00	0.9895E-01
22	0.1964E+02	0.1888E+00	0.8950E-01
23	0.2089E+02	0.1868E+00	0.7800E-01
24	0.2217E+02	0.1849E+00	0.6545E-01
25	0.2306E+02	0.1865E+00	0.5680E-01
26	0.2349E+02	0.1879E+00	0.5214E-01
27	0.2362E+02	0.1883E+00	0.5065E-01
28	0.2418E+02	0.1892E+00	0.4925E-01
29	0.2532E+02	0.1895E+00	0.4712E-01
30	0.2624E+02	0.1890E+00	0.4535E-01
31	0.2673E+02	0.1882E+00	0.4434E-01
32	0.2689E+02	0.1879E+00	0.4400E-01
33	0.2754E+02	0.1860E+00	0.4251E-01
34	0.3292E+02	0.1834E+00	0.3507E-01

SPECTRUM PARAMETERS

CURVE NO 23 F1 = 2.01910 F2 = 23.67120 FL = 1.39222 FH = 6.24584

INPUT SPECTRUM CURVE NUMBER = 23

NUMBER OF DEFINITION POINTS = 34

DAMPING RATIO FOR THIS CURVE = 0.35322E-01

INPUT POINT	FREQUENCY (HZ)	INPUT SPECTRAL ACCELERATION	CALCULATED VELOCITY SPECTRAL ACCELERATION
1	0.1315E+01	0.2655E+00	0.2812E+00
2	0.1587E+01	0.3394E+00	0.3394E+00
3	0.2801E+01	0.5022E+00	0.5231E+00
4	0.3430E+01	0.4359E+00	0.4628E+00
5	0.3601E+01	0.4302E+00	0.4576E+00
6	0.3898E+01	0.3991E+00	0.4245E+00
7	0.4259E+01	0.4969E+00	0.5266E+00
8	0.5689E+01	0.4371E+00	0.4660E+00
9	0.7468E+01	0.3165E+00	0.3012E+00
10	0.8071E+01	0.2442E+00	0.2265E+00
11	0.8307E+01	0.2378E+00	0.2163E+00
12	0.1018E+02	0.2189E+00	0.1844E+00
13	0.1063E+02	0.2026E+00	0.1670E+00
14	0.1204E+02	0.2007E+00	0.1543E+00
15	0.1313E+02	0.2002E+00	0.1454E+00
16	0.1344E+02	0.1973E+00	0.1409E+00
17	0.1479E+02	0.1920E+00	0.1272E+00
18	0.1609E+02	0.1897E+00	0.1161E+00
19	0.1660E+02	0.1872E+00	0.1108E+00
20	0.1796E+02	0.1852E+00	0.9962E-01
21	0.1826E+02	0.1859E+00	0.9776E-01
22	0.1964E+02	0.1888E+00	0.8832E-01
23	0.2089E+02	0.1864E+00	0.7702E-01
24	0.2217E+02	0.1850E+00	0.6473E-01
25	0.2306E+02	0.1865E+00	0.5622E-01
26	0.2349E+02	0.1876E+00	0.5170E-01
27	0.2362E+02	0.1882E+00	0.5021E-01
28	0.2418E+02	0.1890E+00	0.4682E-01
29	0.2532E+02	0.1894E+00	0.4671E-01
30	0.2624E+02	0.1888E+00	0.4495E-01
31	0.2673E+02	0.1881E+00	0.4395E-01
32	0.2689E+02	0.1876E+00	0.4363E-01
33	0.2754E+02	0.1860E+00	0.4218E-01
34	0.3292E+02	0.1834E+00	0.3480E-01

SPECTRUM PARAMETERS

CURVE NO 24 F1 = 1.99785 F2 = 23.67120 FL = 1.39103 FH = 6.21272

INPUT SPECTRUM CURVE NUMBER = 24

NUMBER OF DEFINITION POINTS = 34

DAMPING RATIO FOR THIS CURVE = 0.36512E-01

INPUT POINT	FREQUENCY (HZ)	INPUT SPECTRAL ACCELERATION	CALCULATED VELOCITY SPECTRAL ACCELERATION
1	0.1315E+01	0.2635E+00	0.2788E+00
2	0.1587E+01	0.3366E+00	0.3366E+00
3	0.2801E+01	0.4928E+00	0.5147E+00
4	0.3430E+01	0.4283E+00	0.4559E+00
5	0.3601E+01	0.4226E+00	0.4505E+00
6	0.3898E+01	0.3934E+00	0.4192E+00
7	0.4259E+01	0.4906E+00	0.5207E+00
8	0.5689E+01	0.4332E+00	0.4618E+00
9	0.7468E+01	0.3123E+00	0.2965E+00
10	0.8071E+01	0.2409E+00	0.2227E+00
11	0.8307E+01	0.2356E+00	0.2155E+00
12	0.1018E+02	0.2162E+00	0.1824E+00
13	0.1063E+02	0.2019E+00	0.1655E+00
14	0.1204E+02	0.2002E+00	0.1530E+00
15	0.1313E+02	0.1997E+00	0.1443E+00
16	0.1344E+02	0.1969E+00	0.1397E+00
17	0.1479E+02	0.1919E+00	0.1261E+00
18	0.1609E+02	0.1897E+00	0.1152E+00
19	0.1660E+02	0.1872E+00	0.1100E+00
20	0.1796E+02	0.1853E+00	0.9882E-01
21	0.1826E+02	0.1860E+00	0.9695E-01
22	0.1964E+02	0.1887E+00	0.8752E-01
23	0.2089E+02	0.1868E+00	0.7637E-01
24	0.2217E+02	0.1851E+00	0.6425E-01
25	0.2306E+02	0.1865E+00	0.5584E-01
26	0.2349E+02	0.1876E+00	0.5138E-01
27	0.2362E+02	0.1881E+00	0.4992E-01
28	0.2418E+02	0.1889E+00	0.4654E-01
29	0.2532E+02	0.1893E+00	0.4645E-01
30	0.2624E+02	0.1888E+00	0.4470E-01
31	0.2673E+02	0.1880E+00	0.4370E-01
32	0.2689E+02	0.1877E+00	0.4338E-01
33	0.2754E+02	0.1860E+00	0.4196E-01
34	0.3292E+02	0.1834E+00	0.3462E-01

SPECTRUM PARAMETERS

CURVE NO 25 F1 = 1.98785 F2 = 23.67120 FL = 1.39046 FH = 6.19715

INPUT SPECTRUM CURVE NUMBER = 25

NUMBER OF DEFINITION POINTS = 34

DAMPING RATIO FOR THIS CURVE = 0.37098E-01

INPUT POINT	FREQUENCY (HZ)	INPUT SPECTRAL ACCELERATION	CALCULATED VELOCITY SPECTRAL ACCELERATION
1	0.1315E+01	0.2625E+00	0.2777E+00
2	0.1587E+01	0.3352E+00	0.3352E+00
3	0.2801E+01	0.4883E+00	0.5104E+00
4	0.3430E+01	0.4247E+00	0.4526E+00
5	0.3601E+01	0.4196E+00	0.4476E+00
6	0.3898E+01	0.3906E+00	0.4166E+00
7	0.4259E+01	0.4876E+00	0.5179E+00
8	0.5689E+01	0.4314E+00	0.4598E+00
9	0.7468E+01	0.3103E+00	0.2942E+00
10	0.8071E+01	0.2394E+00	0.2209E+00
11	0.8307E+01	0.2346E+00	0.2142E+00
12	0.1018E+02	0.2178E+00	0.1821E+00
13	0.1063E+02	0.2015E+00	0.1648E+00
14	0.1204E+02	0.2000E+00	0.1524E+00
15	0.1313E+02	0.1995E+00	0.1435E+00
16	0.1344E+02	0.1967E+00	0.1391E+00
17	0.1479E+02	0.1918E+00	0.1256E+00
18	0.1609E+02	0.1898E+00	0.1147E+00
19	0.1660E+02	0.1872E+00	0.1095E+00
20	0.1796E+02	0.1853E+00	0.9843E-01
21	0.1826E+02	0.1860E+00	0.9657E-01
22	0.1964E+02	0.1887E+00	0.8715E-01
23	0.2089E+02	0.1868E+00	0.7605E-01
24	0.2217E+02	0.1851E+00	0.6402E-01
25	0.2306E+02	0.1865E+00	0.5566E-01
26	0.2349E+02	0.1876E+00	0.5124E-01
27	0.2362E+02	0.1880E+00	0.4976E-01
28	0.2418E+02	0.1889E+00	0.4640E-01
29	0.2532E+02	0.1893E+00	0.4632E-01
30	0.2624E+02	0.1887E+00	0.4457E-01
31	0.2673E+02	0.1880E+00	0.4358E-01
32	0.2689E+02	0.1877E+00	0.4326E-01
33	0.2754E+02	0.1860E+00	0.4185E-01
34	0.3292E+02	0.1835E+00	0.3454E-01

SPECTRUM PARAMETERS

CURVE NO 26 F1 = 1.98480 F2 = 23.67120 FL = 1.38931 FH = 6.19240

INPUT SPECTRUM CURVE NUMBER = 26

NUMBER OF DEFINITION POINTS = 34

DAMPING RATIO FOR THIS CURVE = 0.37279E-01

INPUT POINT	FREQUENCY (HZ)	INPUT SPECTRAL ACCELERATION	CALCULATED VELOCITY SPECTRAL ACCELERATION
1	0.1315E+01	0.2622E+00	0.2773E+00
2	0.1587E+01	0.3348E+00	0.3348E+00
3	0.2801E+01	0.4869E+00	0.5096E+00
4	0.3430E+01	0.4235E+00	0.4516E+00
5	0.3601E+01	0.4187E+00	0.4470E+00
6	0.3858E+01	0.3897E+00	0.4158E+00
7	0.4259E+01	0.4867E+00	0.5170E+00
8	0.5689E+01	0.4308E+00	0.4592E+00
9	0.7468E+01	0.3097E+00	0.2935E+00
10	0.8071E+01	0.2389E+00	0.2203E+00
11	0.8307E+01	0.2342E+00	0.2138E+00
12	0.1018E+02	0.2177E+00	0.1819E+00
13	0.1063E+02	0.2014E+00	0.1646E+00
14	0.1204E+02	0.2000E+00	0.1522E+00
15	0.1313E+02	0.1994E+00	0.1433E+00
16	0.1344E+02	0.1967E+00	0.1390E+00
17	0.1479E+02	0.1918E+00	0.1255E+00
18	0.1609E+02	0.1898E+00	0.1146E+00
19	0.1660E+02	0.1873E+00	0.1094E+00
20	0.1796E+02	0.1853E+00	0.9831E-01
21	0.1826E+02	0.1860E+00	0.9645E-01
22	0.1964E+02	0.1886E+00	0.8703E-01
23	0.2089E+02	0.1868E+00	0.7596E-01
24	0.2217E+02	0.1851E+00	0.6395E-01
25	0.2306E+02	0.1865E+00	0.5561E-01
26	0.2349E+02	0.1877E+00	0.5119E-01
27	0.2362E+02	0.1880E+00	0.4973E-01
28	0.2418E+02	0.1889E+00	0.4636E-01
29	0.2532E+02	0.1892E+00	0.4628E-01
30	0.2624E+02	0.1887E+00	0.4454E-01
31	0.2673E+02	0.1880E+00	0.4355E-01
32	0.2689E+02	0.1877E+00	0.4323E-01
33	0.2754E+02	0.1860E+00	0.4182E-01
34	0.3292E+02	0.1835E+00	0.3451E-01

SPECTRUM PARAMETERS

CURVE NO 27 F1 = 1.97915 F2 = 23.67120 FL = 1.38968 FH = 6.18359

INPUT SPECTRUM CURVE NUMBER = 27

NUMBER OF DEFINITION POINTS = 34

DAMPING RATIO FOR THIS CURVE = 0.38031E-01

INPUT POINT	FREQUENCY (HZ)	INPUT SPECTRAL ACCELERATION	CALCULATED VELOCITY SPECTRAL ACCELERATION
1	0.1315E+01	0.2610E+00	0.2759E+00
2	0.1587E+01	0.3330E+00	0.3330E+00
3	0.2601E+01	0.4814E+00	0.5044E+00
4	0.3430E+01	0.4190E+00	0.4472E+00
5	0.3601E+01	0.4149E+00	0.4434E+00
6	0.3898E+01	0.3862E+00	0.4125E+00
7	0.4259E+01	0.4830E+00	0.5134E+00
8	0.5689E+01	0.4284E+00	0.4367E+00
9	0.7468E+01	0.3073E+00	0.2908E+00
10	0.8071E+01	0.2369E+00	0.2182E+00
11	0.8307E+01	0.2329E+00	0.2122E+00
12	0.1018E+02	0.2172E+00	0.1811E+00
13	0.1063E+02	0.2009E+00	0.1638E+00
14	0.1204E+02	0.1998E+00	0.1516E+00
15	0.1313E+02	0.1991E+00	0.1426E+00
16	0.1344E+02	0.1965E+00	0.1383E+00
17	0.1479E+02	0.1917E+00	0.1250E+00
18	0.1609E+02	0.1896E+00	0.1142E+00
19	0.1660E+02	0.1873E+00	0.1090E+00
20	0.1796E+02	0.1854E+00	0.9792E-01
21	0.1826E+02	0.1860E+00	0.9606E-01
22	0.1964E+02	0.1886E+00	0.8664E-01
23	0.2089E+02	0.1868E+00	0.7565E-01
24	0.2217E+02	0.1852E+00	0.6375E-01
25	0.2306E+02	0.1865E+00	0.5546E-01
26	0.2349E+02	0.1877E+00	0.5109E-01
27	0.2362E+02	0.1880E+00	0.4965E-01
28	0.2418E+02	0.1888E+00	0.4828E-01
29	0.2532E+02	0.1892E+00	0.4621E-01
30	0.2624E+02	0.1887E+00	0.4446E-01
31	0.2673E+02	0.1880E+00	0.4347E-01
32	0.2689E+02	0.1876E+00	0.4316E-01
33	0.2754E+02	0.1860E+00	0.4176E-01
34	0.3292E+02	0.1835E+00	0.3446E-01

SPECTRUM PARAMETERS

CURVE NO 28 F1 = 1.96971 F2 = 23.67120 FL = 1.38830 FH = 6.16889

INPUT SPECTRUM CURVE NUMBER = 28

NUMBER OF DEFINITION POINTS = 34

DAMPING RATIO FOR THIS CURVE = 0.39581E-01

INPUT POINT	FREQUENCY (HZ)	INPUT SPECTRAL ACCELERATION	CALCULATED VELOCITY SPECTRAL ACCELERATION
1	0.1315E+01	0.2584E+00	0.2729E+00
2	0.1587E+01	0.3294E+00	0.3294E+00
3	0.2601E+01	0.4704E+00	0.4741E+00
4	0.3430E+01	0.4099E+00	0.4386E+00
5	0.3601E+01	0.4073E+00	0.4363E+00
6	0.3898E+01	0.3796E+00	0.4062E+00
7	0.4259E+01	0.4755E+00	0.5063E+00
8	0.5689E+01	0.4234E+00	0.4316E+00
9	0.7468E+01	0.3023E+00	0.2856E+00
10	0.8071E+01	0.2319E+00	0.2140E+00
11	0.8307E+01	0.2303E+00	0.2092E+00
12	0.1018E+02	0.2163E+00	0.1795E+00
13	0.1063E+02	0.1999E+00	0.1622E+00
14	0.1204E+02	0.1983E+00	0.1504E+00
15	0.1313E+02	0.1986E+00	0.1413E+00
16	0.1344E+02	0.1961E+00	0.1372E+00
17	0.1479E+02	0.1916E+00	0.1240E+00
18	0.1609E+02	0.1899E+00	0.1134E+00
19	0.1660E+02	0.1873E+00	0.1081E+00
20	0.1796E+02	0.1854E+00	0.9716E-01
21	0.1826E+02	0.1861E+00	0.9530E-01
22	0.1964E+02	0.1885E+00	0.8590E-01
23	0.2089E+02	0.1868E+00	0.7506E-01
24	0.2217E+02	0.1853E+00	0.6336E-01
25	0.2306E+02	0.1865E+00	0.5520E-01
26	0.2349E+02	0.1876E+00	0.5091E-01
27	0.2362E+02	0.1879E+00	0.4950E-01
28	0.2418E+02	0.1887E+00	0.4814E-01
29	0.2532E+02	0.1891E+00	0.4607E-01
30	0.2624E+02	0.1885E+00	0.4433E-01
31	0.2673E+02	0.1879E+00	0.4335E-01
32	0.2689E+02	0.1876E+00	0.4303E-01
33	0.2754E+02	0.1860E+00	0.4167E-01
34	0.3292E+02	0.1835E+00	0.3439E-01

SPECTRUM PARAMETERS

CURVE NO 29 F1 = 1.96258 F2 = 23.67120 FL = 1.38719 FH = 6.15778

INPUT SPECTRUM CURVE NUMBER = 29

NUMBER OF DEFINITION POINTS = 34

DAMPING RATIO FOR THIS CURVE = 0.40837E-01

INPUT POINT	FREQUENCY (HZ)	INPUT SPECTRAL ACCELERATION	CALCULATED VELOCITY SPECTRAL ACCELERATION
1	0.1315E+01	0.2564E+00	0.2705E+00
2	0.1587E+01	0.3266E+00	0.3266E+00
3	0.2801E+01	0.4620E+00	0.4862E+00
4	0.3430E+01	0.4028E+00	0.4318E+00
5	0.3601E+01	0.4013E+00	0.4307E+00
6	0.3898E+01	0.3776E+00	0.4048E+00
7	0.4259E+01	0.4697E+00	0.5008E+00
8	0.5689E+01	0.4195E+00	0.4276E+00
9	0.7468E+01	0.2985E+00	0.2816E+00
10	0.8071E+01	0.2299E+00	0.2104E+00
11	0.8307E+01	0.2262E+00	0.2069E+00
12	0.1018E+02	0.2155E+00	0.1782E+00
13	0.1063E+02	0.1992E+00	0.1610E+00
14	0.1204E+02	0.1990E+00	0.1495E+00
15	0.1313E+02	0.1981E+00	0.1403E+00
16	0.1344E+02	0.1958E+00	0.1363E+00
17	0.1479E+02	0.1915E+00	0.1232E+00
18	0.1609E+02	0.1900E+00	0.1127E+00
19	0.1660E+02	0.1873E+00	0.1075E+00
20	0.1796E+02	0.1855E+00	0.9657E-01
21	0.1826E+02	0.1861E+00	0.9470E-01
22	0.1964E+02	0.1884E+00	0.8531E-01
23	0.2089E+02	0.1867E+00	0.7460E-01
24	0.2217E+02	0.1853E+00	0.6306E-01
25	0.2306E+02	0.1865E+00	0.5500E-01
26	0.2349E+02	0.1876E+00	0.5077E-01
27	0.2362E+02	0.1879E+00	0.4938E-01
28	0.2418E+02	0.1886E+00	0.4803E-01
29	0.2532E+02	0.1890E+00	0.4597E-01
30	0.2624E+02	0.1885E+00	0.4424E-01
31	0.2673E+02	0.1878E+00	0.4325E-01
32	0.2689E+02	0.1875E+00	0.4294E-01
33	0.2754E+02	0.1860E+00	0.4159E-01
34	0.3292E+02	0.1835E+00	0.3433E-01

SPECTRUM PARAMETERS

CURVE NO 30 F1 = 1.95893 F2 = 23.67120 FL = 1.38669 FH = 6.15209

INPUT SPECTRUM CURVE NUMBER = 30

NUMBER OF DEFINITION POINTS = 34

DAMPING RATIO FOR THIS CURVE = 0.41519E-01

INPUT POINT	FREQUENCY (HZ)	INPUT SPECTRAL ACCELERATION	CALCULATED VELOCITY SPECTRAL ACCELERATION
1	0.1315E+01	0.2553E+00	0.2693E+00
2	0.1587E+01	0.3250E+00	0.3250E+00
3	0.2801E+01	0.4576E+00	0.4821E+00
4	0.3430E+01	0.3992E+00	0.4285E+00
5	0.3601E+01	0.3982E+00	0.4277E+00
6	0.3898E+01	0.3766E+00	0.4040E+00
7	0.4259E+01	0.4666E+00	0.4979E+00
8	0.5689E+01	0.4173E+00	0.4254E+00
9	0.7468E+01	0.2965E+00	0.2794E+00
10	0.8071E+01	0.2283E+00	0.2091E+00
11	0.8307E+01	0.2271E+00	0.2057E+00
12	0.1018E+02	0.2151E+00	0.1776E+00
13	0.1063E+02	0.1988E+00	0.1604E+00
14	0.1204E+02	0.1988E+00	0.1490E+00
15	0.1313E+02	0.1979E+00	0.1397E+00
16	0.1344E+02	0.1957E+00	0.1358E+00
17	0.1479E+02	0.1914E+00	0.1228E+00
18	0.1609E+02	0.1900E+00	0.1124E+00
19	0.1660E+02	0.1874E+00	0.1071E+00
20	0.1796E+02	0.1855E+00	0.9625E-01
21	0.1826E+02	0.1861E+00	0.9438E-01
22	0.1964E+02	0.1884E+00	0.8500E-01
23	0.2089E+02	0.1867E+00	0.7436E-01
24	0.2217E+02	0.1854E+00	0.6290E-01
25	0.2306E+02	0.1865E+00	0.5485E-01
26	0.2349E+02	0.1875E+00	0.5069E-01
27	0.2362E+02	0.1878E+00	0.4932E-01
28	0.2418E+02	0.1885E+00	0.4797E-01
29	0.2532E+02	0.1890E+00	0.4592E-01
30	0.2624E+02	0.1884E+00	0.4419E-01
31	0.2673E+02	0.1877E+00	0.4320E-01
32	0.2689E+02	0.1875E+00	0.4289E-01
33	0.2754E+02	0.1860E+00	0.4156E-01
34	0.3292E+02	0.1835E+00	0.3430E-01

SPECTRUM PARAMETERS

CURVE NO 31 F1 = 1.95782 F2 = 23.67120 FL = 1.38653 FH = 6.15035

INPUT SPECTRUM CURVE NUMBER = 31

NUMBER OF DEFINITION POINTS = 34

DAMPING RATIO FOR THIS CURVE = 0.41730E-01

INPUT POINT	FREQUENCY (HZ)	INPUT SPECTRAL ACCELERATION	CALCULATED VELOCITY SPECTRAL ACCELERATION
1	0.1315E+01	0.2549E+00	0.2689E+00
2	0.1587E+01	0.3246E+00	0.3246E+00
3	0.2801E+01	0.4563E+00	0.4808E+00
4	0.3430E+01	0.3982E+00	0.4275E+00
5	0.3601E+01	0.3972E+00	0.4268E+00
6	0.3898E+01	0.3762E+00	0.4038E+00
7	0.4259E+01	0.4657E+00	0.4970E+00
8	0.5689E+01	0.4367E+00	0.4247E+00
9	0.7468E+01	0.2759E+00	0.2788E+00
10	0.8071E+01	0.2046E+00	0.2086E+00
11	0.8307E+01	0.2064E+00	0.2053E+00
12	0.1018E+02	0.1708E+00	0.1774E+00
13	0.1063E+02	0.1587E+00	0.1602E+00
14	0.1204E+02	0.1988E+00	0.1489E+00
15	0.1313E+02	0.1978E+00	0.1396E+00
16	0.1344E+02	0.1957E+00	0.1357E+00
17	0.1479E+02	0.1914E+00	0.1227E+00
18	0.1609E+02	0.1900E+00	0.1122E+00
19	0.1660E+02	0.1874E+00	0.1073E+00
20	0.1796E+02	0.1855E+00	0.9615E-01
21	0.1826E+02	0.1862E+00	0.9429E-01
22	0.1964E+02	0.1884E+00	0.8491E-01
23	0.2089E+02	0.1867E+00	0.7428E-01
24	0.2217E+02	0.1854E+00	0.6285E-01
25	0.2306E+02	0.1865E+00	0.5486E-01
26	0.2349E+02	0.1875E+00	0.5067E-01
27	0.2362E+02	0.1878E+00	0.4931E-01
28	0.2418E+02	0.1885E+00	0.4795E-01
29	0.2532E+02	0.1890E+00	0.4590E-01
30	0.2624E+02	0.1884E+00	0.4417E-01
31	0.2673E+02	0.1877E+00	0.4319E-01
32	0.2689E+02	0.1875E+00	0.4288E-01
33	0.2754E+02	0.1860E+00	0.4154E-01
34	0.3292E+02	0.1835E+00	0.3429E-01

SPECTRUM PARAMETERS

CURVE NO 32 F1 = 1.95566 F2 = 23.67120 FL = 1.38616 FH = 6.14700

INPUT SPECTRUM CURVE NUMBER = 32

NUMBER OF DEFINITION POINTS = 34

DAMPING RATIO FOR THIS CURVE = 0.42150E-01

INPUT POINT	FREQUENCY (HZ)	INPUT SPECTRAL ACCELERATION	CALCULATED VELOCITY SPECTRAL ACCELERATION
1	0.1315E+01	0.2542E+00	0.2681E+00
2	0.1587E+01	0.3256E+00	0.3236E+00
3	0.2801E+01	0.4536E+00	0.4783E+00
4	0.3430E+01	0.3963E+00	0.4256E+00
5	0.3601E+01	0.3953E+00	0.4250E+00
6	0.3898E+01	0.3756E+00	0.4033E+00
7	0.4259E+01	0.4638E+00	0.4952E+00
8	0.5689E+01	0.4153E+00	0.4234E+00
9	0.7468E+01	0.2947E+00	0.2775E+00
10	0.8071E+01	0.2268E+00	0.2075E+00
11	0.8307E+01	0.2262E+00	0.2046E+00
12	0.1018E+02	0.2148E+00	0.1770E+00
13	0.1063E+02	0.1985E+00	0.1599E+00
14	0.1204E+02	0.1987E+00	0.1486E+00
15	0.1313E+02	0.1977E+00	0.1392E+00
16	0.1344E+02	0.1956E+00	0.1354E+00
17	0.1479E+02	0.1914E+00	0.1224E+00
18	0.1609E+02	0.1900E+00	0.1120E+00
19	0.1660E+02	0.1874E+00	0.1068E+00
20	0.1796E+02	0.1855E+00	0.9596E-01
21	0.1826E+02	0.1862E+00	0.9409E-01
22	0.1964E+02	0.1884E+00	0.8472E-01
23	0.2089E+02	0.1867E+00	0.7414E-01
24	0.2217E+02	0.1854E+00	0.6276E-01
25	0.2306E+02	0.1865E+00	0.5479E-01
26	0.2349E+02	0.1875E+00	0.5063E-01
27	0.2362E+02	0.1878E+00	0.4927E-01
28	0.2418E+02	0.1885E+00	0.4792E-01
29	0.2532E+02	0.1890E+00	0.4587E-01
30	0.2624E+02	0.1884E+00	0.4414E-01
31	0.2673E+02	0.1877E+00	0.4316E-01
32	0.2689E+02	0.1874E+00	0.4285E-01
33	0.2754E+02	0.1860E+00	0.4152E-01
34	0.3292E+02	0.1835E+00	0.3428E-01

SPECTRUM PARAMETERS

CURVE NO 33 F1 = 1.95318 F2 = 23.67120 FL = 1.38589 FH = 6.14713

INPUT SPECTRUM CURVE NUMBER = 33

NUMBER OF DEFINITION POINTS = 34

DAMPING RATIO FOR THIS CURVE = 0.42637E-01

INPUT POINT	FREQUENCY (HZ)	INPUT SPECTRAL ACCELERATION	CALCULATED VELOCITY SPECTRAL ACCELERATION
1	0.1315E+01	0.2535E+00	0.2672E+00
2	0.1587E+01	0.3226E+00	0.3226E+00
3	0.2801E+01	0.4506E+00	0.4755E+00
4	0.3430E+01	0.3939E+00	0.4234E+00
5	0.3601E+01	0.3931E+00	0.4229E+00
6	0.3898E+01	0.3748E+00	0.4027E+00
7	0.4259E+01	0.4617E+00	0.4932E+00
8	0.5689E+01	0.4138E+00	0.4218E+00
9	0.7468E+01	0.2933E+00	0.2760E+00
10	0.8071E+01	0.2257E+00	0.2064E+00
11	0.8307E+01	0.2254E+00	0.2037E+00
12	0.1018E+02	0.2145E+00	0.1765E+00
13	0.1063E+02	0.1983E+00	0.1594E+00
14	0.1204E+02	0.1966E+00	0.1482E+00
15	0.1313E+02	0.1976E+00	0.1389E+00
16	0.1344E+02	0.1955E+00	0.1350E+00
17	0.1479E+02	0.1913E+00	0.1221E+00
18	0.1609E+02	0.1900E+00	0.1116E+00
19	0.1660E+02	0.1874E+00	0.1066E+00
20	0.1796E+02	0.1856E+00	0.9574E-01
21	0.1826E+02	0.1862E+00	0.9387E-01
22	0.1964E+02	0.1883E+00	0.8450E-01
23	0.2089E+02	0.1867E+00	0.7396E-01
24	0.2217E+02	0.1854E+00	0.6265E-01
25	0.2306E+02	0.1865E+00	0.5472E-01
26	0.2349E+02	0.1875E+00	0.5058E-01
27	0.2362E+02	0.1878E+00	0.4923E-01
28	0.2418E+02	0.1885E+00	0.4788E-01
29	0.2532E+02	0.1889E+00	0.4584E-01
30	0.2624E+02	0.1884E+00	0.4410E-01
31	0.2673E+02	0.1877E+00	0.4313E-01
32	0.2689E+02	0.1874E+00	0.4282E-01
33	0.2754E+02	0.1860E+00	0.4150E-01
34	0.3292E+02	0.1836E+00	0.3426E-01

SPECTRUM PARAMETERS

CURVE NO 34 F1 = 1.92340 F2 = 23.67120 FL = 1.38118 FH = 6.09673

INPUT SPECTRUM CURVE NUMBER = 34

NUMBER OF DEFINITION POINTS = 34

DAMPING RATIO FOR THIS CURVE = 0.50000E-01

INPUT POINT	FREQUENCY (HZ)	INPUT SPECTRAL ACCELERATION	CALCULATED VELOCITY SPECTRAL ACCELERATION
1	0.1315E+01	0.2420E+00	0.2543E+00
2	0.1587E+01	0.3069E+00	0.3069E+00
3	0.2801E+01	0.4304E+00	0.4374E+00
4	0.3430E+01	0.3625E+00	0.3915E+00
5	0.3601E+01	0.3622E+00	0.3913E+00
6	0.3898E+01	0.3635E+00	0.3938E+00
7	0.4259E+01	0.4326E+00	0.4653E+00
8	0.5689E+01	0.3914E+00	0.3990E+00
9	0.7468E+01	0.2744E+00	0.2562E+00
10	0.8071E+01	0.2127E+00	0.1924E+00
11	0.8307E+01	0.2120E+00	0.1970E+00
12	0.1018E+02	0.2104E+00	0.1700E+00
13	0.1063E+02	0.1980E+00	0.1561E+00
14	0.1204E+02	0.1973E+00	0.1438E+00
15	0.1313E+02	0.1958E+00	0.1340E+00
16	0.1344E+02	0.1942E+00	0.1306E+00
17	0.1479E+02	0.1908E+00	0.1182E+00
18	0.1609E+02	0.1901E+00	0.1083E+00
19	0.1660E+02	0.1875E+00	0.1032E+00
20	0.1796E+02	0.1858E+00	0.9266E-01
21	0.1826E+02	0.1863E+00	0.9074E-01
22	0.1964E+02	0.1880E+00	0.8153E-01
23	0.2089E+02	0.1867E+00	0.7164E-01
24	0.2217E+02	0.1857E+00	0.6113E-01
25	0.2306E+02	0.1864E+00	0.5375E-01
26	0.2349E+02	0.1872E+00	0.4995E-01
27	0.2362E+02	0.1874E+00	0.4873E-01
28	0.2418E+02	0.1880E+00	0.4741E-01
29	0.2532E+02	0.1885E+00	0.4539E-01
30	0.2624E+02	0.1879E+00	0.4367E-01
31	0.2673E+02	0.1873E+00	0.4271E-01
32	0.2689E+02	0.1871E+00	0.4242E-01
33	0.2754E+02	0.1860E+00	0.4118E-01
34	0.3292E+02	0.1837E+00	0.3402E-01

INTERPOLATED SPECTRAL ACCELERATIONS FOR CORRESPONDING FREQUENCIES & DAMPING RATIOS

FREQUENCY (HZ)	DAMPING RATIO (%)	SPECTRAL ACCELERATIONS SAD	SAV
0.13145E+01	0.50000E+01	0.2420E+00	0.2543E+00
0.15867E+01	0.42150E+01	0.3246E+00	0.3236E+00
0.28009E+01	0.26665E+01	0.5842E+00	0.5996E+00
0.34301E+01	0.23447E+01	0.5283E+00	0.5447E+00

0.36006E+01	0.22825E+01	0.5338E+00	0.5513E+00
0.38984E+01	0.21920E+01	0.4779E+00	0.4944E+00
0.42591E+01	0.21076E+01	0.6116E+00	0.6332E+00
0.56890E+01	0.19441E+01	0.4864E+00	0.4975E+00
0.74677E+01	0.19400E+01	0.3988E+00	0.3928E+00
0.80710E+01	0.19651E+01	0.3076E+00	0.2979E+00
0.83071E+01	0.19775E+01	0.2805E+00	0.2698E+00
0.10178E+02	0.21110E+01	0.2312E+00	0.2084E+00
0.10627E+02	0.21512E+01	0.2154E+00	0.1907E+00
0.12036E+02	0.22875E+01	0.2129E+00	0.1764E+00
0.13130E+02	0.24044E+01	0.2077E+00	0.1623E+00
0.13439E+02	0.24387E+01	0.2025E+00	0.1555E+00
0.14793E+02	0.25939E+01	0.1936E+00	0.1371E+00
0.16091E+02	0.27495E+01	0.1887E+00	0.1224E+00
0.16598E+02	0.28118E+01	0.1871E+00	0.1170E+00
0.17960E+02	0.29424E+01	0.1849E+00	0.1037E+00
0.18256E+02	0.30201E+01	0.1857E+00	0.1016E+00
0.19641E+02	0.31985E+01	0.1889E+00	0.9070E-01
0.20890E+02	0.33622E+01	0.1868E+00	0.7759E-01
0.22170E+02	0.35322E+01	0.1850E+00	0.6473E-01
0.23057E+02	0.36512E+01	0.1865E+00	0.5585E-01
0.23492E+02	0.37094E+01	0.1877E+00	0.5124E-01
0.23625E+02	0.37279E+01	0.1880E+00	0.4973E-01
0.24181E+02	0.38031E+01	0.1888E+00	0.4828E-01
0.25320E+02	0.39561E+01	0.1891E+00	0.4607E-01
0.26236E+02	0.40837E+01	0.1885E+00	0.4423E-01
0.26733E+02	0.41519E+01	0.1877E+00	0.4320E-01
0.26886E+02	0.41730E+01	0.1875E+00	0.4288E-01
0.27543E+02	0.42637E+01	0.1860E+00	0.4150E-01
0.32918E+02	0.50000E+01	0.1837E+00	0.3402E-01

COMBINED VALUES OF COUPLED NODAL DISPLACEMENTS

DISPLACEMENTS AT PRIMARY SYSTEM CONNETING DOF

DOF #	DISPLACEMENT
3041	[illegible]370E-02
3042	0.0000E+00
3043	0.1868E-05
3061	0.5770E-05
3063	0.6277E-05
3072	0.0000E+00
3081	0.9291E-02
3103	0.2260E-04
3121	0.1842E-01
3122	0.0000E+00
3123	0.2948E-04
3091	0.1076E-01
3092	0.0000E+00
3093	0.1400E-04

DISPLACEMENTS AT SECONDARY SYSTEM DOF

NODE	DX	DY	DZ	ROT-X	ROT-Y	ROT-Z
1	0.2370E-02	0.1501E-09	0.1868E-05	0.7443E-10	0.1899E-09	0.1227E-09
2	0.2383E-02	0.3968E-03	0.4473E-03	0.7759E-04	0.1809E-03	0.1361E-03
3	0.3138E-02	0.4589E-02	0.5755E-02	0.2574E-03	0.5339E-03	0.4141E-03
4	0.3143E-02	0.2087E-01	0.2604E-01	0.5712E-03	0.9874E-03	0.8124E-03
5	0.3145E-02	0.3287E-01	0.4021E-01	0.7294E-03	0.1201E-02	0.9965E-03
9001	0.3192E-02	0.3476E-01	0.4243E-01	0.7479E-03	0.1260E-02	0.1045E-02
9002	0.3755E-02	0.3621E-01	0.4417E-01	0.7629E-03	0.1314E-02	0.1091E-02
6	0.5222E-02	0.3675E-01	0.4494E-01	0.7840E-03	0.1363E-02	0.1132E-02
7	0.7465E-02	0.3675E-01	0.4519E-01	0.7985E-03	0.1419E-02	0.1154E-02
9003	0.4844E-01	0.3675E-01	0.5574E-01	0.6676E-03	0.2492E-02	0.9007E-03
9004	0.5933E-01	0.3676E-01	0.5601E-01	0.5230E-03	0.3674E-02	0.5063E-03
9	0.6768E-02	0.3676E-01	0.1262E-01	0.2031E-02	0.4887E-02	0.3043E-02
10	0.2467E-01	0.3676E-01	0.1256E-02	0.2381E-02	0.5098E-02	0.3549E-02
9005	0.1638E+00	0.3676E-01	0.9900E-01	0.3722E-02	0.6139E-02	0.5143E-02

9006	0.3310E+00	0.3675E-01	0.2249E+00	0.4185E-02	0.7184E-02	0.5325E-02
11	0.4837E+00	0.3675E-01	0.3519E+00	0.3805E-02	0.8232E-02	0.4275E-02
12	0.5262E+00	0.3675E-01	0.3911E+00	0.3492E-02	0.8593E-02	0.3681E-02
9007	0.5328E+00	0.3498E-01	0.3999E+00	0.3377E-02	0.8655E-02	0.3466E-02
9008	0.5373E+00	0.3039E-01	0.4111E+00	0.3277E-02	0.8715E-02	0.3250E-02
13	0.5388E+00	0.2450E-01	0.4225E+00	0.3187E-02	0.8797E-02	0.3036E-02
14	0.5388E+00	0.1637E-01	0.4372E+00	0.3061E-02	0.8860E-02	0.2875E-02
15	0.5388E+00	0.1403E-02	0.4728E+00	0.2789E-02	0.8981E-02	0.2540E-02
16	0.5388E+00	0.3071E-01	0.5680E+00	0.2188E-02	0.9184E-02	0.1871E-02
17	0.5377E+00	0.3365E-01	0.5876E+00	0.2067E-02	0.9237E-02	0.1674E-02
18	0.5347E+00	0.3371E-01	0.6248E+00	0.1846E-02	0.9294E-02	0.1388E-02
19	0.5373E+00	0.3135E-01	0.6792E+00	0.1606E-02	0.9350E-02	0.1140E-02
20	0.5801E+00	0.8373E-02	0.8298E+00	0.1320E-02	0.9360E-02	0.1730E-02
21	0.5833E+00	0.3276E-02	0.8542E+00	0.1379E-02	0.9310E-02	0.2180E-02
9009	0.4629E+00	0.3279E-02	0.8793E+00	0.1335E-02	0.9115E-02	0.4060E-02
9010	0.2780E+00	0.3283E-02	0.8877E+00	0.1119E-02	0.8968E-02	0.5303E-02
22	0.5301E-01	0.3287E-02	0.8592E+00	0.1572E-02	0.8871E-02	0.6006E-02
23	0.1006E-01	0.3288E-02	0.8472E+00	0.1772E-02	0.8858E-02	0.6172E-02
24	0.1044E+00	0.3290E-02	0.8177E+00	0.2202E-02	0.8838E-02	0.6521E-02
9011	0.3290E+00	0.3294E-02	0.7323E+00	0.3095E-02	0.8825E-02	0.6947E-02
9012	0.5550E+00	0.3299E-02	0.6172E+00	0.3844E-02	0.8848E-02	0.6742E-02
25	0.7605E+00	0.3303E-02	0.4808E+00	0.4308E-02	0.8909E-02	0.5968E-02
26	0.8124E+00	0.3305E-02	0.4396E+00	0.4375E-02	0.8933E-02	0.5677E-02
9013	0.9728E+00	0.3311E-02	0.2845E+00	0.4307E-02	0.9046E-02	0.4579E-02
9014	0.1074E+01	0.3317E-02	0.1411E+00	0.3694E-02	0.9196E-02	0.3955E-02
27	0.1115E+01	0.3323E-02	0.2983E-01	0.2484E-02	0.9387E-02	0.4301E-02
28	0.1117E+01	0.3326E-02	0.8509E-03	0.1874E-02	0.9467E-02	0.4635E-02
29	0.1109E+01	0.3330E-02	0.2737E-01	0.9849E-03	0.9596E-02	0.5222E-02
9015	0.1072E+01	0.3338E-02	0.4071E-01	0.1858E-05	0.9864E-02	0.6166E-02
9016	0.1037E+01	0.3346E-02	0.2461E-01	0.6286E-03	0.1017E-01	0.6548E-02
30	0.1032E+01	0.3354E-02	0.8656E-02	0.4269E-03	0.1050E-01	0.6239E-02
31	0.1033E+01	0.3354E-02	0.8599E-02	0.4140E-03	0.1051E-01	0.6221E-02
32	0.1023E+01	0.2989E-02	0.8556E-02	0.3471E-03	0.1054E-01	0.6125E-02
35	0.9953E+00	0.2203E-02	0.8576E-02	0.2950E-03	0.1057E-01	0.6043E-02
37	0.9062E+00	0.4446E-03	0.8576E-02	0.2513E-03	0.1059E-01	0.5632E-02
9017	0.5698E+00	0.6541E-02	0.8575E-02	0.1516E-03	0.1002E-01	0.5022E-02
9018	0.2705E+00	0.9975E-02	0.8574E-02	0.7588E-04	0.8270E-02	0.4212E-02
38	0.5150E-01	0.1093E-01	0.8572E-02	0.4318E-04	0.5187E-02	0.3402E-02
39	0.1865E-01	0.1078E-01	0.8572E-02	0.4842E-04	0.3908E-02	0.3142E-02
9019	0.7044E-01	0.9009E-02	0.8571E-02	0.8471E-04	0.4013E-03	0.2290E-02
40	0.5184E-01	0.5881E-02	0.8569E-02	0.1140E-03	0.1276E-02	0.1438E-02
41	0.2260E-01	0.3334E-02	0.8568E-02	0.1287E-03	0.1209E-02	0.7024E-03
43	0.2163E-01	0.9945E-03	0.4789E-02	0.1338E-03	0.8847E-03	0.5243E-03
44	0.2163E-01	0.2706E-03	0.3556E-02	0.1315E-03	0.8362E-03	0.4966E-03
45	0.2163E-01	0.1500E-02	0.7166E-03	0.1350E-03	0.7148E-03	0.4252E-03
9020	0.2161E-01	0.7774E-02	0.8934E-02	0.1729E-03	0.4757E-04	0.2852E-04
46	0.2159E-01	0.4612E-02	0.6394E-02	0.2228E-03	0.1453E-03	0.1718E-03
47	0.2159E-01	0.4101E-02	0.6029E-02	0.2285E-03	0.1357E-03	0.1801E-03
91	0.2174E-01	0.4101E-02	0.5557E-02	0.2302E-03	0.1273E-03	0.1817E-03
92	0.2272E-01	0.4100E-02	0.4407E-02	0.2157E-03	0.8334E-04	0.2023E-03
93	0.2335E-01	0.3753E-02	0.4452E-02	0.1947E-03	0.8385E-04	0.2199E-03

94	0.2347E-01	0.3512E-02	0.4450E-02	0.1897E-03	0.8441E-04	0.2290E-03
95	0.2364E-01	0.3290E-02	0.4449E-02	0.1846E-03	0.8174E-04	0.2448E-03
96	0.2378E-01	0.3269E-02	0.4447E-02	0.1825E-03	0.7514E-04	0.2622E-03
97	0.2378E-01	0.3274E-02	0.4447E-02	0.1825E-03	0.7474E-04	0.2631E-03
98	0.2315E-01	0.3389E-02	0.3817E-02	0.1889E-03	0.5782E-04	0.2858E-03
100	0.2227E-01	0.3389E-02	0.3009E-02	0.1901E-03	0.5192E-04	0.2[illegible]E-03
101	0.2171E-01	0.3389E-02	0.2476E-02	0.1874E-03	0.5105E-04	0.25[illegible]E-03
102	0.2105E-01	0.3389E-02	0.1832E-02	0.1868E-03	0.4109E-04	0.2946E-03
113	0.2211E-01	0.3681E-02	0.2476E-02	0.1480E-03	0.1194E-03	0.2529E-03
114	0.2268E-01	0.3905E-02	0.2476E-02	0.1162E-03	0.1603E-03	0.2157E-03
115	0.2338E-01	0.4086E-02	0.2476E-02	0.8907E-04	0.1825E-03	0.1785E-03
116	0.2452E-01	0.4250E-02	0.2475E-02	0.5725E-04	0.1976E-03	0.1241E-03
118	0.2507E-01	0.4273E-02	0.2535E-02	0.3449E-04	0.1981E-03	0.8828E-04
9023	0.2365E-01	0.4270E-02	0.1869E-02	0.9819E-04	0.2053E-03	0.1553E-03
120	0.1789E-01	0.4267E-02	0.4032E-02	0.1975E-03	0.2148E-03	0.2434E-03
122	0.1785E-01	0.3793E-02	0.4469E-02	0.2187E-03	0.2202E-03	0.2258E-03
124	0.1872E-01	0.2843E-02	0.4469E-02	0.2286E-03	0.2318E-03	0.2049E-03
125	0.2102E-01	0.5041E-03	0.4468E-02	0.2257E-03	0.2432E-03	0.1551E-03
127	0.2182E-01	0.8656E-05	0.3987E-02	0.2092E-03	0.2287E-03	0.1319E-03
129	0.2285E-01	0.5104E-05	0.1004E-03	0.7434E-04	0.1349E-03	0.7350E-04
9024	0.2037E-01	0.2552E-05	0.2973E-03	0.1427E-04	0.6743E-04	0.1680E-03
130	0.1842E-01	0.5580E-10	0.2948E-04	0.4866E-11	0.3829E-11	0.2380E-10
48	0.2155E-01	0.3572E-02	0.5693E-02	0.2270E-03	0.1360E-03	0.1858E-03
49	0.2158E-01	0.2630E-02	0.5145E-02	0.2249E-03	0.1348E-03	0.1971E-03
50	0.2158E-01	0.1617E-02	0.4617E-02	0.2235E-03	0.1320E-03	0.2095E-03
51	0.2158E-01	0.1301E-02	0.4464E-02	0.2232E-03	0.1308E-03	0.2133E-03
52	0.2157E-01	0.1979E-03	0.3932E-02	0.2225E-03	0.1255E-03	0.2271E-03
53	0.2154E-01	0.6252E-02	0.2345E-02	0.2246E-03	0.8418E-04	0.2931E-03
54	0.2148E-01	0.1776E-01	0.2078E-03	0.2614E-03	0.1075E-03	0.3442E-03
55	0.2148E-01	0.1801E-01	0.2065E-03	0.2623E-03	0.1110E-03	0.3443E-03
56	0.2110E-01	0.1935E-01	0.5779E-03	0.2689E-03	0.1342E-03	0.3475E-03
57	0.2090E-01	0.1940E-01	0.5779E-03	0.2703E-03	0.1227E-03	0.3488E-03
58	0.2078E-01	0.1947E-01	0.5779E-03	0.2711E-03	0.1097E-03	0.3501E-03
59	0.2066E-01	0.1960E-01	0.5779E-03	0.2713E-03	0.9482E-04	0.3521E-03
103	0.2066E-01	0.1840E-01	0.3023E-03	0.2675E-03	0.6251E-04	0.3335E-03
104	0.2066E-01	0.1568E-01	0.2477E-03	0.2530E-03	0.2118E-04	0.3197E-03
105	0.2066E-01	0.1479E-01	0.2559E-03	0.2485E-03	0.2270E-04	0.3662E-03
106	0.2066E-01	0.1389E-01	0.3485E-03	0.2441E-03	0.1847E-04	0.3935E-03
107	0.2066E-01	0.1069E-01	0.5981E-03	0.2286E-03	0.1167E-03	0.3989E-03
109	0.2062E-01	0.1058E-01	0.7417E-03	0.2265E-03	0.7442E-03	0.3779E-03
111	0.2055E-01	0.1111E-01	0.7416E-03	0.2154E-03	0.6087E-04	0.3429E-03
112	0.2053E-01	0.1134E-01	0.7415E-03	0.2091E-03	0.1484E-04	0.3292E-03
60	0.2058E-01	0.1976E-01	0.5778E-03	0.2702E-03	0.8439E-04	0.3546E-03
61	0.2054E-01	0.1996E-01	0.5777E-03	0.2678E-03	0.7657E-04	0.3574E-03
62	0.2054E-01	0.1998E-01	0.5777E-03	0.2675E-03	0.7600E-04	0.3576E-03
63	0.2050E-01	0.1913E-01	0.4024E-03	0.2554E-03	0.5679E-04	0.3621E-03
64	0.2050E-01	0.1600E-01	0.4349E-03	0.2320E-03	0.4020E-04	0.3606E-03
65	0.2051E-01	0.1471E-01	0.5700E-03	0.2222E-03	0.2987E-04	0.3557E-03
131	0.2004E-01	0.1471E-01	0.2100E-03	0.2220E-03	0.2987E-04	0.3541E-03
132	0.1967E-01	0.1471E-01	0.8976E-03	0.2221E-03	0.2987E-04	0.3525E-03

66	0.2051E-01	0.1351E-01	0.6698E-03	0.2163E-03	0.1937E-04	0.3487E-03
67	0.2051E-01	0.1257E-01	0.7218E-03	0.2116E-03	0.1211E-04	0.3380E-03
68	0.2052E-01	0.1195E-01	0.7415E-03	0.2085E-03	0.7[illegible]1E-05	0.3282E-03
69	0.2052E-01	0.1138E-01	0.7451E-03	0.2055E-03	0.[illegible]61E-05	0.3166E-03
70	0.2052E-01	0.1097E-01	0.7360E-03	0.2033E-03	0.6954E-05	0.3071E-03
71	0.2052E-01	0.1011E-01	0.6835E-03	0.1990E-03	0.1463E-04	0.2847E-03
133	0.2026E-01	0.1011E-01	0.8712E-04	0.1991E-03	0.1463E-04	0.2836E-03
134	0.2008E-01	0.1011E-01	0.6219E-03	0.1991E-03	0.1463E-04	0.2825E-03
72	0.2053E-01	0.9272E-02	0.5934E-03	0.1943E-03	0.2225E-04	0.2654E-03
73	0.2056E-01	0.5354E-02	0.4853E-03	0.1831E-03	0.6080E-04	0.2571E-03
74	0.2056E-01	0.4908E-02	0.6353E-03	0.1829E-03	0.6467E-04	0.2622E-03
75	0.2057E-01	0.4092E-02	0.9598E-03	0.1831E-03	0.6361E-04	0.2742E-03
76	0.2057E-01	0.3515E-02	0.1253E-02	0.1842E-03	0.5114E-04	0.2871E-03
77	0.2057E-01	0.3389E-02	0.1368E-02	0.1851E-03	0.4141E-04	0.2934E-03
78	0.2057E-01	0.3476E-02	0.1502E-02	0.1770E-03	0.3015E-04	0.2974E-03
9021	0.2058E-01	0.9965E-02	0.1742E-02	0.1867E-03	0.4697E-04	0.3[illegible]4E-03
79	0.2058E-01	0.1818E-01	0.1739E-02	0.2851E-03	0.4011E-04	0.2861E-03
80	0.2058E-01	0.2092E-01	0.1477E-02	0.3319E-03	0.5619E-04	0.2545E-03
81	0.2058E-01	0.2155E-01	0.1370E-02	0.3438E-03	0.6421E-04	0.2469E-03
82	0.2026E-01	0.2102E-01	0.1170E-02	0.3772E-03	0.1055E-03	0.2198E-03
9022	0.1650E-01	0.1082E-01	0.1172E-02	0.3965E-03	0.1802E-03	0.1366E-03
83	0.1205E-01	0.1981E-02	0.1173E-02	0.2617E-03	0.1455E-03	0.5492E-04
84	0.1173E-01	0.1395E-02	0.1173E-02	0.2404E-03	0.1348E-03	0.4783E-04
85	0.1151E-01	0.1008E-02	0.1173E-02	0.2242E-03	0.1263E-03	0.4287E-04
86	0.1081E-01	0.5842E-04	0.3612E-03	0.1018E-03	0.5636E-04	0.1867E-04
87	0.1076E-01	0.1929E-09	0.1400E-04	0.7587E-10	0.4340E-10	0.1939E-10

COMBINED VALUES OF COUPLED MEMBENER FORCES

NODE	FX	FY	FZ	MX	MY	MZ
1	0.5922E-01	0.1501E-01	0.3893E-01	0.6200E-01	0.1582E+00	0.1022E+00
2	0.5922E-01	0.1501E-01	0.3893E-01	0.5679E-01	0.1417E+00	0.9872E-01
2	0.5895E-01	0.1500E-01	0.3892E-01	0.5679E-01	0.1417E+00	0.9872E-01
3	0.5895E-01	0.1500E-01	0.3892E-01	0.5059E-01	0.1152E+00	0.8998E-01
3	0.5854E-01	0.1491E-01	0.3879E-01	0.5059E-01	0.1152E+00	0.8998E-01
4	0.5854E-01	0.1493E-01	0.3879E-01	0.5059E-01	0.1142E+00	0.8203E-01
4	0.5829E-01	0.1473E-01	0.3828E-01	0.5059E-01	0.1142E+00	0.8203E-01
5	0.5829E-01	0.1473E-01	0.3828E-01	0.5059E-01	0.1363E+00	0.8340E-01
5	0.5823E-01	0.1465E-01	0.3802E-01	0.5059E-01	0.1363E+00	0.8340E-01
9001	0.5823E-01	0.1465E-01	0.3802E-01	0.4909E-01	0.1402E+00	0.8151E-01
9001	0.5822E-01	0.1463E-01	0.3795E-01	0.4909E-01	0.1402E+00	0.8151E-01
9002	0.5822E-01	0.1463E-01	0.3795E-01	0.4504E-01	0.1431E+00	0.7547E-01
9002	0.5820E-01	0.1461E-01	0.3789E-01	0.4504E-01	0.1431E+00	0.7547E-01
6	0.5820E-01	0.1461E-01	0.3789E-01	0.3960E-01	0.1442E+00	0.6691E-01
6	0.5818E-01	0.1459E-01	0.3781E-01	0.3960E-01	0.1442E+00	0.6691E-01
7	0.5818E-01	0.1459E-01	0.3781E-01	0.3329E-01	0.1442E+00	0.5659E-01
7	0.5800E-01	0.1445E-01	0.3722E-01	0.3329E-01	0.1442E+00	0.5659E-01
9003	0.5800E-01	0.1445E-01	0.3722E-01	0.8590E-01	0.1442E+00	0.1264E+00
9003	0.5659E-01	0.1440E-01	0.3619E-01	0.8590E-01	0.1442E+00	0.1264E+00
9004	0.5659E-01	0.1440E-01	0.3619E-01	0.1951E+00	0.1442E+00	0.2983E+00
9004	0.5665E-01	0.1461E-01	0.3547E-01	0.1951E+00	0.1442E+00	0.2983E+00

9	0.5665E-01	0.1461E-01	0.3547E-01	0.3026E+00	0.1442E+00	0.4683E+00
9	0.1042E+00	0.1513E-01	0.3530E-01	0.3026E+00	0.1442E+00	0.4683E+00
10	0.1042E+00	0.1513E-01	0.3530E-01	0.3212E+00	0.1442E+00	0.4135E+00
10	0.1008E+00	0.1588E-01	0.6172E-01	0.3212E+00	0.1442E+00	0.4135E+00
9005	0.1008E+00	0.1588E-01	0.6172E-01	0.1615E+00	0.1442E+00	0.1541E+00
9005	0.9358E-01	0.1665E-01	0.6034E-01	0.1615E+00	0.1442E+00	0.1541E+00
9006	0.9158E-01	0.1665E-01	0.6034E-01	0.2532E-0[illegible]	0.1442E+00	0.1020E+00
9006	0.8078E-01	0.1755E-01	0.5748E-01	0.2532E-01	0.1442E+00	0.1020E+00
11	0.8078E-01	0.1755E-01	0.5748E-01	0.1492E+00	0.1442E+00	0.3079E+00
11	0.6900E-01	0.1822E-01	0.5487E-01	[illegible]1492E+00	0.1442E+00	0.3079E+00
12	0.6900E-01	[illegible]1822E-01	0.5487E-01	[illegible]1976E+00	0.1442E+00	0.3694E+00
12	0.6530E-01	0.1843E-01	[illegible]	0.1976E+00	0.1442E+00	0.3694E+00
9007	0.6530E-01	0.1843E-01	0.5409E-01	0.2059E+00	0.1424E+00	0.3800E+00
9007	0.6416E-01	0.1849E-01	0.5385E-01	0.2059E+00	0.1424E+00	0.3800E+00
9008	0.6416E-01	0.1849E-01	0.5385E-01	0.2120E+00	0.1376E+00	0.3888E+00
9008	0.6302E-01	0.1855E-01	0.5361E-01	0.2120E+00	0.1376E+00	0.3888E+00
13	0.6302E-01	0.1855E-01	0.5361E-01	0.2142E+00	0.1312E+00	0.3934E+00
13	0.6166E-01	0.1860E-01	0.5332E-01	0.2142E+00	0.1312E+00	0.3934E+00
14	0.6166E-01	0.1860E-01	0.5332E-01	0.2142E+00	0.1222E+00	0.3964E+00
14	0.5753E-01	0.1837E-01	0.5241E-01	0.2142E+00	0.1222E+00	0.3964E+00
15	0.5753E-01	0.1837E-01	0.5241E-01	0.2142E+00	0.1050E+00	0.4027E+00
15	0.4392E-01	0.9398E-01	0.4890E-01	0.2142E+00	0.1050E+00	0.4027E+00
16	0.4392E-01	0.9398E-01	0.4890E-01	0.2142E+00	0.8250E-01	0.3471E+00
16	0.4108E-01	0.9398E-01	0.4764E-01	0.2142E+00	0.8250E-01	0.3471E+00
17	0.4108E-01	0.9398E-01	0.4764E-01	0.2058E+00	0.8010E-01	0.3395E+00
17	0.3976E-01	0.9399E-01	0.4686E-01	0.2058E+00	0.8010E-01	0.3395E+00
18	0.3976E-01	0.9399E-01	0.4686E-01	0.1682E+00	0.7248E-01	0.3282E+00
18	0.3818E-01	0.9402E-01	0.4543E-01	0.1682E+00	0.7248E-01	0.3282E+00
19	0.3818E-01	0.9402E-01	0.4543E-01	0.1159E+00	0.6521E-01	0.3195E+00
19	0.3776E-01	0.9408E-01	0.4199E-01	0.1159E+00	0.6521E-01	0.3195E+00
20	0.3776E-01	0.9408E-01	0.4199E-01	0.5167E-01	0.6974E-01	0.3389E+00
20	0.4050E-01	0.9409E-01	0.3798E-01	0.5167E-01	0.6974E-01	0.3389E+00
21	0.4050E-01	0.9409E-01	0.3798E-01	0.5818E-01	0.7295E-01	0.3394E+00
21	0.4836E-01	0.9410E-01	0.3218E-01	0.5818E-01	0.7295E-01	0.3394E+00
9009	0.4836E-01	0.9410E-01	0.3218E-01	0.7571E-01	0.7295E-01	0.2490E+00
9009	0.6197E-01	0.9412E-01	0.2216E-01	0.7571E-01	0.7295E-01	0.2490E+00
9010	0.6197E-01	0.9412E-01	0.2216E-01	0.1433E+00	0.7295E-01	0.2294E+00
9010	0.7084E-01	0.9415E-01	0.1239E-01	0.1433E+00	0.7295E-01	0.2294E+00
22	0.7084E-01	0.9415E-01	0.1239E-01	0.1810E+00	0.7295E-01	0.3712E+00
22	0.7356E-01	0.9416E-01	0.7047E-02	0.1810E+00	0.7295E-01	0.3712E+00
23	0.7356E-01	0.9416E-01	0.7047E-02	0.1849E+00	0.7295E-01	0.4137E+00
23	0.7377E-01	0.9419E-01	0.5219E-02	0.1849E+00	0.7295E-01	0.4137E+00
24	0.7377E-01	0.9419E-01	0.5219E-02	0.1819E+00	0.7295E-01	0.3319E+00
24	0.7048E-01	0.9420E-01	0.9585E-02	0.1819E+00	0.7295E-01	0.3319E+00
9011	0.7048E-01	0.9420E-01	0.9585E-02	0.1597E+00	0.7295E-01	0.2176E+00
9011	0.6207E-01	0.9423E-01	0.1613E-01	0.1597E+00	0.7295E-01	0.2176E+00
9012	0.6207E-01	0.9423E-01	0.1613E-01	0.1186E+00	0.7295E-01	0.2227E+00
9012	0.5043E-01	0.9425E-01	0.2199E-01	0.1186E+00	0.7295E-01	0.2227E+00
25	0.5043E-01	0.9425E-01	0.2199E-01	0.6429E-01	0.7295E-01	0.2931E+00
25	0.4222E-01	0.9427E-01	0.2504E-01	0.6429E-01	0.7295E-01	0.2931E+00
26	0.4222E-01	0.9427E-01	0.2504E-01	0.4918E-01	0.7295E-01	0.3126E+00

26	0.3590E-01	0.9429E-01	0.2807E-01	0.4918E-01	0.7295E-01	0.3126E+00
9013	0.3590E-01	0.9429E-01	0.2807E-01	0.5875E-01	0.7295E-01	0.3672E+00
9013	0.3016E-01	0.9432E-01	0.3135E-01	0.5875E-01	0.7295E-01	0.3672E+00
9014	0.3016E-01	0.9432E-01	0.3135E-01	0.1430E+00	0.7295E-01	0.3864E+00
9014	0.2959E-01	0.9435E-01	0.3310E-01	0.1430E+00	0.7295E-01	0.3864E+00
27	0.2959E-01	0.9435E-01	0.3310E-01	0.2381E+00	0.7295E-01	0.3720E+00
27	0.2978E-01	0.9437E-01	0.3336E-01	0.2381E+00	0.7295E-01	0.3720E+00
28	0.2978E-01	0.9437E-01	0.3336E-01	0.2744E+00	0.7295E-01	0.3590E+00
28	0.3518E-01	0.9441E-01	0.3241E-01	0.2744E+00	0.7295E-01	0.3590E+00
29	0.3518E-01	0.9441E-01	0.3241E-01	0.2206E+00	0.7295E-01	0.3170E+00
29	0.4140E-01	0.9444E-01	0.3263E-01	0.2206E+00	0.7295E-01	0.3170E+00
9015	0.4140E-01	0.9444E-01	0.3263E-01	0.1200E+00	0.7295E-01	0.2172E+00
9015	0.4588E-01	0.9448E-01	0.3307E-01	0.1200E+00	0.7295E-01	0.2172E+00
9016	0.4588E-01	0.9448E-01	0.3307E-01	0.2375E-01	0.7295E-01	0.1155E+00
9016	0.4695E-01	0.9451E-01	0.3339E-01	0.2375E-01	0.7295E-01	0.1155E+00
30	0.4695E-01	0.9451E-01	0.3339E-01	0.8948E-01	0.7295E-01	0.9890E-01
30	0.4765E-01	0.9453E-01	0.3342E-01	0.8948E-01	0.7295E-01	0.9890E-01
31	0.4765E-01	0.9453E-01	0.3342E-01	0.9221E-01	0.7295E-01	0.1004E+00
31	0.4797E-01	0.9454E-01	0.3342E-01	0.9221E-01	0.7295E-01	0.1004E+00
32	0.4797E-01	0.9454E-01	0.3342E-01	0.9100E-01	0.7153E-01	0.1049E+00
32	0.4851E-01	0.9454E-01	0.3343E-01	0.9100E-01	0.7153E-01	0.1049E+00
35	0.4851E-01	0.9454E-01	0.3343E-01	0.7379E-01	0.6880E-01	0.1068E+00
35	0.4978E-01	0.9455E-01	0.3343E-01	0.7379E-01	0.6880E-01	0.1068E+00
37	0.4978E-01	0.9455E-01	0.3343E-01	0.2117E-01	0.6945E-01	0.1068E+00
37	0.7123E-01	0.2057E-02	0.3353E-01	0.2117E-01	0.6945E-01	0.1068E+00
9017	0.7123E-01	0.2057E-02	0.3353E-01	0.1758E-01	0.1997E+00	0.1068E+00
9017	0.8271E-01	0.2076E-02	0.3360E-01	0.1758E-01	0.1997E+00	0.1068E+00
9018	0.8271E-01	0.2076E-02	0.3360E-01	0.1441E-01	0.4124E+00	0.1068E+00
9018	0.8886E-01	0.2140E-02	0.3369E-01	0.1441E-01	0.4124E+00	0.1068E+00
38	0.8886E-01	0.2140E-02	0.3369E-01	0.1196E-01	0.6466E+00	0.1068E+00
38	0.9024E-01	0.2061E-02	0.3375E-01	0.1196E-01	0.6466E+00	0.1068E+00
39	0.9024E-01	0.2061E-02	0.3375E-01	0.1143E-01	0.7232E+00	0.1068E+00
39	0.1065E+00	0.1994E-02	0.3394E-01	0.1143E-01	0.7232E+00	0.1068E+00
9019	0.1065E+00	0.1994E-02	0.3394E-01	0.9091E-02	0.4236E+00	0.1068E+00
9019	0.1071E+00	0.2012E-02	0.3408E-01	0.9091E-02	0.4236E+00	0.1068E+00
40	0.1071E+00	0.2012E-02	0.3408E-01	0.7910E-02	0.1214E+00	0.1068E+00
40	0.1086E+00	0.2231E-02	0.3422E-01	0.7910E-02	0.1214E+00	0.1068E+00
41	0.1086E+00	0.2231E-02	0.3422E-01	0.9151E-02	0.1464E+00	0.1068E+00
41	0.1095E+00	0.2292E-02	0.3430E-01	0.9151E-02	0.1464E+00	0.1068E+00
43	0.1095E+00	0.2292E-02	0.3430E-01	0.9529E-02	0.1798E+00	0.1073E+00
43	0.1097E+00	0.2295E-02	0.3431E-01	0.9529E-02	0.1798E+00	0.1073E+00
44	0.1097E+00	0.2295E-02	0.3431E-01	0.9529E-02	0.1798E+00	0.1075E+00
44	0.1112E+00	0.1920E-01	0.3437E-01	0.9529E-02	0.1796E+00	0.1075E+00
45	0.1112E+00	0.1920E-01	0.3437E-01	0.9529E-02	0.1802E+00	0.1015E+00
45	0.1146E+00	0.1922E-01	0.4083E-01	0.9529E-02	0.1802E+00	0.1015E+00
9020	0.1146E+00	0.1922E-01	0.4083E-01	0.9529E-02	0.8320E-01	0.5799E-01
9020	0.1181E+00	0.1935E-01	0.4100E-01	0.9529E-02	0.8320E-01	0.5799E-01
46	0.1181E+00	0.1935E-01	0.4100E-01	0.9529E-02	0.1501E-01	0.2232E-01
46	0.1204E+00	0.1943E-01	0.4104E-01	0.9529E-02	0.1501E-01	0.2232E-01
47	0.1204E+00	0.1943E-01	0.4104E-01	0.9529E-02	0.2503E-01	0.2097E-01

47	0.1126E+00	0.1311E-01	0.6980E-02	0.1010E-01	0.7109E-02	0.3865E-01
48	0.1126E+00	0.1311E-01	0.6980E-02	0.1010E-01	0.7352E-02	0.3688E-01
48	0.1135E+00	0.1312E-01	0.6886E-02	0.1010E-01	0.7352E-02	0.3688E-01
49	0.1135E+00	0.1312E-01	0.6886E-02	0.1010E-01	0.8507E-02	0.3444E-01
49	0.1281E+00	0.1329E-01	0.5676E-02	0.1010E-01	0.8507E-02	0.3444E-01
50	0.1281E+00	0.1329E-01	0.5676E-02	0.1010E-01	0.9317E-02	0.3282E-01
50	0.1289E+00	0.1330E-01	0.5631E-02	0.1010E-01	0.9317E-02	0.3282E-01
51	0.1289E+00	0.1330E-01	0.5631E-02	0.1010E-01	0.9642E-02	0.3250E-01
51	0.1298E+00	0.1330E-01	0.5587E-02	0.1010E-01	0.9642E-02	0.3250E-01
52	0.1298E+00	0.1330E-01	0.5587E-02	0.1010E-01	0.1107E-01	0.3205E-01
52	0.1385E+00	0.6419E-02	0.5396E-02	0.1010E-01	0.1107E-01	0.3205E-01
53	0.1385E+00	0.6419E-02	0.5396E-02	0.1010E-01	0.1831E-01	0.1953E-01
53	0.1476E+00	0.5880E-02	0.5607E-02	0.1010E-01	0.1831E-01	0.1953E-01
54	0.1476E+00	0.5880E-02	0.5607E-02	0.1010E-01	0.3184E-01	0.8377E-02
54	0.1579E+00	0.5879E-02	0.1205E-01	0.1010E-01	0.3184E-01	0.8377E-02
55	0.1579E+00	0.5879E-02	0.1205E-01	0.1010E-01	0.3181E-01	0.8684E-02
55	0.1588E+00	0.6301E-02	0.1204E-01	0.1010E-01	0.3181E-01	0.8684E-02
56	0.1588E+00	0.6301E-02	0.1204E-01	0.8679E-02	0.2741E-01	0.1042E-01
56	0.1600E+00	0.6879E-02	0.1205E-01	0.8679E-02	0.2741E-01	0.1042E-01
57	0.1600E+00	0.6879E-02	0.1205E-01	0.7886E-02	0.5461E-01	0.1042E-01
57	0.5679E-01	0.1027E-01	0.1207E-01	0.7886E-02	0.5461E-01	0.1042E-01
58	0.5679E-01	0.1027E-01	0.1207E-01	0.7166E-02	0.4575E-01	0.1042E-01
58	0.5600E-01	0.1070E-01	0.1208E-01	0.7166E-02	0.4575E-01	0.1042E-01
59	0.5600E-01	0.1070E-01	0.1208E-01	0.6813E-02	0.3327E-01	0.1042E-01
59	0.4730E-01	0.1236E-01	0.1202E-01	0.6744E-02	0.3272E-01	0.1070E-01
60	0.4730E-01	0.1236E-01	0.1202E-01	0.7616E-02	0.2244E-01	0.1070E-01
60	0.4636E-01	0.1284E-01	0.1203E-01	0.7616E-02	0.2244E-01	0.1070E-01
61	0.4636E-01	0.1284E-01	0.1203E-01	0.9563E-02	0.1480E-01	0.1070E-01
61	0.4445E-01	0.1326E-01	0.1204E-01	0.9563E-02	0.1480E-01	0.1070E-01
62	0.4445E-01	0.1326E-01	0.1204E-01	0.9746E-02	0.1442E-01	0.1070E-01
62	0.4350E-01	0.1366E-01	0.1204E-01	0.9746E-02	0.1442E-01	0.1070E-01
63	0.4350E-01	0.1366E-01	0.1204E-01	0.1303E-01	0.1297E-01	0.6778E-02
63	0.4090E-01	0.1452E-01	0.1205E-01	0.1303E-01	0.1297E-01	0.6778E-02
64	0.4090E-01	0.1452E-01	0.1205E-01	0.1303E-01	0.1064E-01	0.8136E-02
64	0.3842E-01	0.1488E-01	0.1203E-01	0.1303E-01	0.1064E-01	0.8136E-02
65	0.3842E-01	0.1488E-01	0.1203E-01	0.1303E-01	0.1299E-01	0.1402E-01
65	0.7084E-01	0.2220E-01	0.4928E-02	0.9998E-02	0.1299E-01	0.1239E-01
66	0.7084E-01	0.2220E-01	0.4928E-02	0.9998E-02	0.1106E-01	0.2054E-01
66	0.6930E-01	0.2219E-01	0.4941E-02	0.9998E-02	0.1106E-01	0.2054E-01
67	0.6930E-01	0.2219E-01	0.4941E-02	0.9998E-02	0.5464E-02	0.2800E-01
67	0.6814E-01	0.2210E-01	0.4952E-02	0.9998E-02	0.9464E-02	0.2800E-01
68	0.6814E-01	0.2210E-01	0.4952E-02	0.9998E-02	0.8369E-02	0.3335E-01
68	0.6418E-01	0.2268E-01	0.5465E-02	0.1070E-01	0.1296E-01	0.3590E-01
69	0.6418E-01	0.2268E-01	0.5465E-02	0.1070E-01	0.1176E-01	0.3944E-01
69	0.6332E-01	0.2253E-01	0.5473E-02	0.1070E-01	0.1176E-01	0.3944E-01
70	0.6332E-01	0.2253E-01	0.5473E-02	0.1070E-01	0.1089E-01	0.4358E-01
70	0.6209E-01	0.2226E-01	0.5485E-02	0.1070E-01	0.1089E-01	0.4358E-01
71	0.6209E-01	0.2226E-01	0.5485E-02	0.1070E-01	0.9046E-02	0.5273E-01
71	0.1149E+00	0.8653E-02	0.4792E-02	0.1080E-01	0.9046E-02	0.5822E-01
72	0.1149E+00	0.8653E-02	0.4792E-02	0.1080E-01	0.9128E-02	0.5635E-01
72	0.1105E+00	0.9627E-02	0.4823E-02	0.1080E-01	0.9128E-02	0.5635E-01

73	0.1105E+00	0.9627E-02	0.4823E-02	0.1080E-01	0.1367E-01	0.4798E-01
73	0.1004E+00	0.1159E-01	0.3416E-01	0.1080E-01	0.1367E-01	0.4798E-01
74	0.1004E+00	0.1159E-01	0.3416E-01	0.1080E-01	0.7334E-02	0.4687E-01
74	0.9911E-01	0.1183E-01	0.3415E-01	0.1080E-01	0.7334E-02	0.4687E-01
75	0.9911E-01	0.1183E-01	0.3415E-01	0.1080E-01	0.9562E-02	0.4485E-01
75	0.7[illegible]3E-01	0.1486E-01	0.3409E-01	0.1080E-01	0.9562E-02	0.4485E-01
76	0.[illegible]E-01	0.1486[illegible]	0.3409E-01	0.1080E-01	0.2309E-01	0.4216E-01
76	0.7804E-[illegible]	0.1459[illegible]	0.3409E-01	0.1080E-01	0.2309E-01	0.4216E-01
77	0.7[illegible]E-[illegible]	0.1[illegible]	0.3409E-01	0.1080E-01	0.3009E-01	0.4109E-01
77	0.[illegible]E-01	0.1421[illegible]-01	0.7391E-02	0.2182E-01	0.2310E-01	0.4933E-01
78	0.2641E-[illegible]	0.[illegible]E-01	0.7391E-02	0.2182E-01	0.2075E-01	0.4487E-01
78	0.1856E-01	0.1393[illegible]-01	0.7431E-02	0.2182E-01	0.2075E-01	0.4487E-01
9021	0.1856E-01	0.1393[illegible]-01	0.7431E-02	0.2182E-01	0.6734E-02	0.1900E-01
9021	0.9239E-02	0.9323[illegible]-02	0.7287E-02	0.2182[illegible]-01	0.6734E-02	0.1900E-01
79	0.9239E-02	0.9323E-02	0.7287E-02	0.2182E-01	0.1664E-01	0.1760E-01
79	0.2743E-02	0.5272E-02	0.6958E-02	0.2182E-01	0.1664E-01	0.1760E-01
80	0.2743E-02	0.5272E-02	0.6958E-02	0.2182E-01	0.2256E-01	0.1627E-01
80	0.2505E-02	0.6186E-02	0.6870E-02	0.2182E-01	0.2256E-01	0.1627E-01
81	0.2505E-02	0.6186E-02	0.6870E-02	0.2182E-01	0.2403E-01	0.1548E-01
81	0.3268E-02	0.7379E-02	0.6819E-02	0.2182E-01	0.2403E-01	0.1548E-01
82	0.3268E-02	0.7379E-02	0.6819E-02	0.1965E-01	0.2522E-01	0.1394E-01
82	0.7791E-02	0.1316E-01	0.6666E-02	0.1965E-01	0.2522E-01	0.1394E-01
9022	0.7791E-02	0.1316E-01	0.6666E-02	0.1009E-01	0.8956E-02	0.1394E-01
9022	0.1520E-01	0.1858E-01	0.6450E-02	0.1009E-01	0.8956E-02	0.1394E-01
83	0.1520E-01	0.1858E-01	0.6450E-02	0.4901E-01	0.2382E-01	0.1394E-01
83	0.1898E-01	0.1913E-01	0.6350E-02	0.4901E-01	0.2382E-01	0.1394E-01
84	0.1898E-01	0.1913E-01	0.6350E-02	0.5271E-01	0.2747E-01	0.1394E-01
84	0.1953E-01	0.1919E-01	0.6337E-02	0.5271E-01	0.2747E-01	0.1394E-01
85	0.1953E-01	0.1919E-01	0.6[illegible]E-02	0.5537E-01	0.3016E-01	0.1394E-01
85	0.2105E-01	0.1930E-01	0.6302E-02	0.5537E-01	0.3016E-01	0.1394E-01
86	0.2105E-01	0.1930E-01	0.6302E-02	0.6417E-01	0.3866E-01	0.1155E-01
86	0.2344E-01	0.1929E-01	0.6286E-02	0.6417E-01	0.3866E-01	0.1155E-01
87	0.2344E-01	0.1929E-01	0.6286E-02	0.6320E-01	0.3615E-01	0.1615E-01
47	JUNCTION					
47	0.3136E-01	0.1118E-01	0.3657E-01	0.1588E-01	0.2916E-01	0.4704E-01
91	0.3136E-01	0.1118E-01	0.3657E-01	0.9261E-02	0.2916E-01	0.4006E-01
91	0.3008E-01	0.1124E-01	0.3662E-01	0.9261E-02	0.2916E-01	0.4006E-01
92	0.3008E-01	0.1124E-01	0.3662E-01	0.3088E-01	0.2916E-01	0.2215E-01
92	0.2861E-01	0.1132E-01	0.3664E-01	0.3088E-01	0.2916E-01	0.2215E-01
93	0.2861E-01	0.1132E-01	0.3664E-01	0.4107E-01	0.2140E-01	0.2228E-01
93	0.2790E-01	0.1134E-01	0.3665E-01	0.4107E-01	0.2140E-01	0.2228E-01
94	0.2790E-01	0.1134E-01	0.3665E-01	0.4045E-01	0.1558E-01	0.2228E-01
94	0.2730E-01	0.1136E-01	0.3667E-01	0.4045E-01	0.1558E-01	0.2228E-01
95	0.2730E-01	0.1136E-01	0.3667E-01	0.3993E-01	0.1097E-01	0.2228E-01
95	0.2920E-01	0.1136E-01	0.3684E-01	0.3993E-01	0.1097E-01	0.2228E-01
96	0.2920E-01	0.1136E-01	0.3684E-01	0.3985E-01	0.9397E-02	0.2228E-01
96	0.2973E-01	0.1135E-01	0.3685E-01	0.3985E-01	0.9397E-02	0.2228E-01
97	0.2973E-01	0.1135E-01	0.3685E-01	0.3986E-01	0.9711E-02	0.2228E-01
97	0.3035E-01	0.1135E-01	0.3685E-01	0.3986E-01	0.9711E-02	0.2228E-01
98	0.3035E-01	0.1135E-01	0.3685E-01	0.2997E-01	0.1667E-01	0.1597E-01

98	0.3146E-01	0.1132E-01	0.3687E-01	0.2997E-01	0.1667E-01	0.1597E-01
100	0.3146E-01	0.1132E-01	0.3687E-01	0.1975E-01	0.1667E-01	0.1414E-01
100	0.3224E-01	0.1130E-01	0.3688E-01	0.1975E-01	0.1667E-01	0.1414E-01
101	0.3224E-01	0.1130E-01	0.3688E-01	0.1624E-01	0.1667E-01	0.1791E-01
101	0.5157E-01	0.1311E-01	0.3626E-01	0.1640E-01	0.2995E-01	0.1947E-01
102	0.5157E-01	0.1311E-01	0.3626E-01	0.1298E-01	0.2995E-01	0.2753E-01
102	0.5256E-01	0.1310E-01	0.3626E-01	0.1298E-01	0.2995E-01	0.2753E-01
77	0.5256E-01	0.1310E-01	0.3626E-01	0.1652E-01	0.2995E-01	0.3807E-01
77	JUNCTION					
59	JUNCTION					
59	0.1061E-01	0.1306E-02	0.7230E-03	0.9400E-04	0.9143E-03	0.7660E-03
103	0.1061E-01	0.1306E-02	0.7230E-03	0.9400E-04	0.6905E-03	0.3860E-03
103	0.1019E-01	0.1029E-02	0.7215E-03	0.9400E-04	0.6905E-03	0.3860E-03
104	0.1019E-01	0.1029E-02	0.7215E-03	0.9400E-04	0.1369E-03	0.4749E-03
104	0.9355E-02	0.6337E-03	0.7169E-03	0.9400E-04	0.1369E-03	0.4749E-03
105	0.9355E-02	0.6337E-03	0.7169E-03	0.9400E-04	0.6138E-04	0.6193E-03
105	0.7409E-02	0.6748E-03	0.7049E-03	0.9400E-04	0.6138E-04	0.6193E-03
106	0.7409E-02	0.6748E-03	0.7049E-03	0.9400E-04	0.2253E-03	0.4555E-03
106	0.7326E-02	0.9466E-03	0.7037E-03	0.9400E-04	0.2253E-03	0.4555E-03
107	0.7326E-02	0.9466E-03	0.7037E-03	0.9400E-04	0.8956E-03	0.4652E-03
107	0.7373E-02	0.9206E-03	0.7048E-03	0.9400E-04	0.8956E-03	0.4652E-03
108	0.7373E-02	0.9206E-03	0.7048E-03	0.1936E-03	0.9191E-04	0.5779E-03
109	0.7408E-02	0.9010E-03	0.7056E-03	0.1936E-03	0.9191E-04	0.5779E-03
111	0.7408E-02	0.9010E-03	0.7056E-03	0.4398E-03	0.2023E-02	0.5779E-03
111	0.7443E-02	0.8806E-03	0.7062E-03	0.4398E-03	0.2023E-02	0.5779E-03
112	0.7443E-02	0.8806E-03	0.7062E-03	0.5426E-03	0.2901E-02	0.5779E-03
112	0.7529E-02	0.8395E-03	0.7076E-03	0.5426E-03	0.2901E-02	0.5779E-03
68	0.7529E-02	0.8395E-03	0.7076E-03	0.8005E-03	0.5231E-02	0.5779E-03
68	JUNCTION					
101	JUNCTION					
101	0.2342E-01	0.4387E-02	0.1273E-02	0.1176E-01	0.2680E-01	0.7716E-02
113	0.2342E-01	0.4387E-02	0.1273E-02	0.9933E-02	0.1512E-01	0.7716E-02
113	0.2065E-01	0.4376E-02	0.1254E-02	0.9933E-02	0.1512E-01	0.7716E-02
114	0.2065E-01	0.4376E-02	0.1254E-02	0.8705E-02	0.7871E-02	0.7716E-02
114	0.9305E-02	0.4501E-02	0.1199E-02	0.8705E-02	0.7871E-02	0.7716E-02
115	0.9305E-02	0.4501E-02	0.1199E-02	0.7425E-02	0.4615E-02	0.7716E-02
115	0.6371E-02	0.4576E-02	0.1192E-02	0.7425E-02	0.4615E-02	0.7716E-02
116	0.6371E-02	0.4576E-02	0.1192E-02	0.5762E-02	0.1423E-02	0.7716E-02
116	0.5267E-02	0.4606E-02	0.1189E-02	0.5762E-02	0.1423E-02	0.7716E-02
118	0.5267E-02	0.4606E-02	0.1189E-02	0.5156E-02	0.7096E-03	0.8287E-02
118	0.1808E-02	0.4723E-02	0.1187E-02	0.5156E-02	0.7096E-03	0.8287E-02
9023	0.1808E-02	0.4723E-02	0.1187E-02	0.4005E-02	0.7096E-03	0.9898E-02
9023	0.5341E-02	0.4992E-02	0.1213E-02	0.4005E-02	0.7096E-03	0.9898E-02
120	0.5341E-02	0.4992E-02	0.1213E-02	0.4770E-02	0.7096E-03	0.2845E-02
120	0.8032E-02	0.5173E-02	0.1398E-02	0.4770E-02	0.7096E-03	0.2845E-02
122	0.8032E-02	0.5173E-02	0.1398E-02	0.4124E-02	0.1744E-02	0.4320E-02
122	0.8697E-02	0.5215E-02	0.1469E-02	0.4124E-02	0.1744E-02	0.4320E-02
124	0.8697E-02	0.5215E-02	0.1469E-02	0.2795E-02	0.4725E-02	0.4320E-02
124	0.7867E-02	0.5567E-02	0.2483E-02	0.2795E-02	0.4725E-02	0.4320E-02
125	0.7867E-02	0.5567E-02	0.2483E-02	0.3699E-02	0.2003E-02	0.4320E-02
125	0.6467E-02	0.5578E-02	0.2683E-02	0.3699E-02	0.2003E-02	0.4320E-02

127	0.6467E-02	0.5578E-02	0.2683E-02	0.4617E-02	0.3190E-02	0.5468E-02
127	0.3364E-02	0.5579E-02	0.3082E-02	0.4618E-02	0.3190E-02	0.5468E-02
129	0.3364E-02	0.5579E-02	0.3082E-02	0.8598E-03	0.3190E-02	0.1253E-01
129	0.8672E-03	0.5580E-02	0.4086E-02	0.8598E-03	0.3190E-02	0.1253E-01
9024	0.8672E-03	0.5580E-02	0.4086E-02	0.2299E-02	0.3190E-02	0.8901E-03
9024	0.1232E-01	0.5580E-02	0.4121E-02	0.2299E-02	0.3190E-02	0.8901E-03
130	0.1232E-01	0.5580E-02	0.4121E-02	0.4053E-02	0.3190E-02	0.1983E-01
65	0.6651E-01	0.6281E-02	0.1542E-01	0.3962E-02	0.0000E+00	0.5614E-02
65	JUNCTION					
131	0.6651E-01	0.6281E-02	0.1542E-01	0.6195E-03	0.0000E+00	0.1458E-01
131	0.5380E-01	0.7175E-02	0.2286E-02	0.6195E-03	0.0000E+00	0.1458E-01
132	0.5380E-01	0.7175E-02	0.2286E-02	0.0000E+00	0.0000E+00	0.0000E+00
71	JUNCTION					
71	0.8178E-01	0.1887E-01	0.5822E-02	0.1629E-02	0.0000E+00	0.7965E-02
133	0.8178E-01	0.1887E-01	0.5822E-02	0.3527E-03	0.0000E+00	0.1509E-01
133	0.5567E-01	0.1635E-01	0.1302E-02	0.3527E-03	0.0000E+00	0.1509E-01
134	0.5567E-01	0.1635E-01	0.1302E-02	0.0000E+00	0.0000E+00	0.0000E+00

COMBINED VALUES OF COUPLED SUPPORT REACTIONS

TYPE	NODE	SUPPORT REACTION
FX	1	0.5931E-01
FY	1	0.1501E-01
FZ	1	0.3893E-01
MX	1	0.6200E-01
MY	1	0.1582E+00
MZ	1	0.1022E+00
FX	9	0.1643E+00
FZ	10	0.9669E-01
FY	14	0.9165E-03
FY	15	0.1080E+00
FX	23	0.1322E+00
FZ	28	0.6544E-01
FY	37	0.9430E-01
FX	39	0.1991E+00
FY	44	0.2084E-01
FZ	45	0.5497E-01
FY	52	0.1524E-01
FY	53	0.7877E-03
FZ	54	0.1532E-01
FX	57	0.2152E+00
FY	61	0.4471E-02
FZ	73	0.3711E-01
FY	78	0.1390E-03
FY	79	0.6361E-03
FX	87	0.2455E-01
FY	87	0.1929E-01
FZ	87	0.6286E-02
MX	87	0.6320E-01
MY	87	0.3615E-01
MZ	87	0.1815E-01

FX	124	0.2376E-01
FZ	129	0.6934E-02
FX	130	0.1400E-01
FY	130	0.5580E-02
FZ	130	0.4120E-02
MX	130	0.4053E-02
MY	130	0.3190E-02
MZ	130	0.1963E-01
FX	131	0.1276E+00
FZ	131	0.1654E-01
FX	133	0.1455E+00
FZ	133	0.5941E-02

```
/batch,list
/filnam, primary
/units,bin                    !weight: lb, Length: inch
/prep7
/title, Modal analysis of primary system
g=386.4
et,41,beam4                   ! for building
mp,ex,41,4.5e6
mp,nuxy,41,0.3
mp,dens,41,0.0
r,41,157000,1.18e+10, 1.03e+10,
rmore,,,1.71,1.67
r,42,243000,  1.43e+10, 1.1e+10,
rmore,,,1.26,1.23
r,43,162000,  1.25e+10, 1.6e+10,
rmore,,,1.57,2.33
r,44,132000,1.15e+10, 1.48e+10,
rmore,,2.64e10,1.59,2.26
r,45, 92660,5.656e+09,2.151e+09,
rmore,,,1.42,2.57
r,46, 98710,7.372e+09,2.603e+09,
rmore,,,1.51,2.88
et,42,mass21,,,2
r,47,4474.0e3/g
r,48,4428.75e3/g
r,49,2650.75e3/g
r,50,3207.25e3/g
r,51,2847.75e3/g
n, 301,0, 6780,0,             !for building
n, 302,0, 6816,0,
n, 303,0, 6852,0,
n, 304,0, 6888,0,
n, 305,0, 6934,0,
n, 306,0, 7080,0,
n, 307,0, 7146,0,
n, 308,0, 7248,0,
n, 309,0, 7314,0,
n, 310,0, 7494,0,
n, 311,0, 7555,0,
n, 312,0, 7660,0,
n, 313,0, 7764,0,
type,41
mat,41
real,41
e,301,302
e,302,303
e,303,304
real,42
e,304,305
real,43
e,305,306
real,44
e,306,307
e,307,308
real,45
e,308,309
e,309,310
real,46
e,310,311
e,311,312
e,312,313
type,42
real,47
e,304
real,48
e,306
real,49
e,308
real,50
e,310
real,51
e,313
d,301,all
lumpm,on
save
finish

/solu
antype,modal
modopt,,2
m,304,ux,310,2,uy,uz
m,313,ux,,,uy,uz
outpr,rsol,all
save
solve
finish

/solu
expass,on
mxpand,2
solve
```



```
save
finish
```

```
*------------------------------------------------------------------------------*
|                                                                              |
|        W E L C O M E   T O   T H E   A N S Y S   P R O G R A M                |
|                                                                              |
*------------------------------------------------------------------------------*



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         *****  ANSYS DYNAMIC MEMORY ALLOCATION  *****
 WORK SPACE REQUESTED               =    8388608      32.000  MB  DEFAULT
 MINIMUM WORK SPACE REQUIRED        =    2613736       9.971  MB
 MINIMUM WORK SPACE RECOMMENDED     =    4597640      17.539  MB
 WORK SPACE OBTAINED                =    8388606      32.000  MB
 BYTES PER WORD                     =          4



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ENTER  /SHOW,device TO SET THE GRAPHICS DISPLAY TO device(e.g. X11,4207,ETC.)
ENTER  /MENU,ON     TO START THE ANSYS MENU SYSTEM
ENTER  HELP         FOR GENERAL ANSYS HELP INFORMATION

40416-2          VERSION=SUN4SPARC      REVISION= 5.0
FOR SUPPORT CALL                  PHONE                    FAX
CURRENT JOBNAME=file      15:44:45  OCT 11, 1995 CP=      5.550


BEGIN:
     1  /filnam, primary
     2  /units,bin                    !weight: lb, Length: inch
     3  /prep7
     4  /title, Modal analysis of primary system
     5  g=386.4
     6  et,41,beam4                   ! for building
     7  mp,ex,41,4.5e6
     8  mp,nuxy,41,0.3
     9  mp,dens,41,0.0
    10  r,41,157000,1.18e+10, 1.03e+10,
    11  rmore,,,1.71,1.67
    12  r,42,243000,  1.43e+10, 1.1e+10,
    13  rmore,,,1.26,1.23
    14  r,43,162000,  1.25e+10, 1.6e+10,
    15  rmore,,,1.57,2.33
    16  r,44,132000,1.15e+10, 1.48e+10,
    17  rmore,,2.64e10,1.59,2.26
    18  r,45, 92660,5.656e+09,2.151e+09,
    19  rmore,,,1.42,2.57
    20  r,46, 98710,7.372e+09,2.603e+09,
    21  rmore,,,1.51,2.88
    22  et,42,mass21,,,2
    23  r,47,4474.0e3/g
    24  r,48,4428.75e3/g
    25  r,49,2650.75e3/g
    26  r,50,3207.25e3/g
    27  r,51,2847.75e3/g
    28  n, 301,0, 6780,0,                    !for building
    29  n, 302,0, 6816,0,
    30  n, 303,0, 6852,0,
    31  n, 304,0, 6888,0,
    32  n, 305,0, 6934,0,
```



```
    33  n, 306,0, 7080,0,
    34  n, 307,0, 7146,0,
    35  n, 308,0, 7248,0,
    36  n, 309,0, 7314,0,
    37  n, 310,0, 7494,0,
    38  n, 311,0, 7555,0,
    39  n, 312,0, 7660,0,
    40  n, 313,0, 7764,0,
    41  type,41
    42  mat,41
    43  real,41
    44  e,301,302
    45  e,302,303
    46  e,303,304
    47  real,42
    48  e,304,305
    49  real,43
    50  e,305,306
    51  real,44
    52  e,306,307
    53  e,307,308
    54  real,45
    55  e,308,309
    56  e,309,310
    57  real,46
    58  e,310,311
    59  e,311,312
    60  e,312,313
    61  type,42
    62  real,47
    63  e,304
    64  real,48
    65  e,306
    66  real,49
    67  e,308
    68  real,50
    69  e,310
    70  real,51
    71  e,313
    72  d,301,all
    73  lumpm,on
    74  save
    75  finish
    76
    77  /solu
    78  antype,modal
    79  modopt,,2
    80  m,304,ux,310,2,uy,uz
    81  m,313,ux,,,uy,uz
    82  ov cpr,nsol,all
    83  save
    84  solve
    85  finish
    86
    87  /solu
    88  expass,on
    89  mxpand,2
    90  solve
    91  save
    92  finish
    93

 CURRENT JOBNAME REDEFINED AS primary

 BRITISH INCH UNITS SPECIFIED
  LENGTH      = INCHES(IN)
  MASS        = POUND(F)*SEC**2/IN
  TIME        = SECONDS(SEC)
  TEMPERATURE = FAHRENHEIT
  CURRENT     = AMPS
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
 40416-2          VERSION=SUN4SPARC      15:45:01  OCT 11, 1995 CP=      8.010
 FOR SUPPORT CALL                  PHONE                    FAX


 **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**

          ***** ANSYS ANALYSIS DEFINITION (PREP7) *****

 TITLE=
  Modal analysis of primary system


 PARAMETER G         =      386.4000

 ELEMENT TYPE    41 IS BEAM4        3-D ELASTIC BEAM
  KEYOPT(1-12)=    0  0  0    0  0  0    0  0  0    0  0  0
```

```
 CURRENT NODAL DOF SET IS  UX    UY    UZ    ROTX  ROTY  ROTZ
  THREE-DIMENSIONAL MODEL

 MATERIAL   41          EX   =    4500000.

 MATERIAL   41          NUXY =    0.3000000

 MATERIAL   41          DENS =           0.

 REAL CONSTANT SET      41  ITEMS    1 TO    6
   0.15700E+06  0.11800E+11  0.10300E+11        0.              0.              0.

 REAL CONSTANT SET      41  ITEMS    7 TO   12
         0.              0.        1.7100        1.6700        0.              0.

 REAL CONSTANT SET      42  ITEMS    1 TO    6
   0.24300E+06  0.14300E+11  0.11000E+11        0.              0.              0.

 REAL CONSTANT SET      42  ITEMS    7 TO   12
         0.              0.        1.2600        1.2300        0.              0.

 REAL CONSTANT SET      43  ITEMS    1 TO    6
   0.16200E+06  0.12500E+11  0.16000E+11        0.              0.              0.

 REAL CONSTANT SET      43  ITEMS    7 TO   12
         0.              0.        1.5700        2.3300        0.              0.

 REAL CONSTANT SET      44  ITEMS    1 TO    6
   0.13200E+06  0.11500E+11  0.14800E+11        0.              0.              0.

 REAL CONSTANT SET      44  ITEMS    7 TO   12
         0.       0.26400E+11  1.5900        2.2600        0.              0.

 REAL CONSTANT SET      45  ITEMS    1 TO    6
     92660.       0.56560E+10  0.21510E+10        0.              0.              0.

 REAL CONSTANT SET      45  ITEMS    7 TO   12
         0.              0.        1.4200        2.5700        0.              0.

 REAL CONSTANT SET      46  ITEMS    1 TO    6
     98710.       0.73720E+10  0.26030E+10        0.              0.              0.

 REAL CONSTANT SET      46  ITEMS    7 TO   12
         0.              0.        1.5100        2.8800        0.              0.

 ELEMENT TYPE   42 IS MASS21        STRUCTURAL MASS
  KEYOPT(1-12)=    0  0  2    0  0  0    0  0  0    0  0  0

 CURRENT NODAL DOF SET IS  UX    UY    UZ    ROTX  ROTY  ROTZ
  THREE-DIMENSIONAL MODEL

 REAL CONSTANT SET      47  ITEMS    1 TO    6
     11579.              0.              0.              0.              0.              0.

 REAL CONSTANT SET      48  ITEMS    1 TO    6
     11462.              0.              0.              0.              0.              0.

 REAL CONSTANT SET      49  ITEMS    1 TO    6
     6860.1              0.              0.              0.              0.              0.

 REAL CONSTANT SET      50  ITEMS    1 TO    6
     8300.3              0.              0.              0.              0.              0.

 REAL CONSTANT SET      51  ITEMS    1 TO    6
     7370.0              0.              0.              0.              0.              0.

 NODE      301  KCS=   0  X,Y,Z=        0.        6780.0          0.
 NODE      302  KCS=   0  X,Y,Z=        0.        6816.0          0.
 NODE      303  KCS=   0  X,Y,Z=        0.        6852.0          0.
 NODE      304  KCS=   0  X,Y,Z=        0.        6888.0          0.
 NODE      305  KCS=   0  X,Y,Z=        0.        6934.0          0.
 NODE      306  KCS=   0  X,Y,Z=        0.        7080.0          0.
 NODE      307  KCS=   0  X,Y,Z=        0.        7146.0          0.
 NODE      308  KCS=   0  X,Y,Z=        0.        7248.0          0.
 NODE      309  KCS=   0  X,Y,Z=        0.        7314.0          0.
 NODE      310  KCS=   0  X,Y,Z=        0.        7494.0          0.
 NODE      311  KCS=   0  X,Y,Z=        0.        7555.0          0.
 NODE      312  KCS=   0  X,Y,Z=        0.        7660.0          0.
 NODE      313  KCS=   0  X,Y,Z=        0.        7764.0          0.
```



```
 ELEMENT TYPE SET TO      41

 MATERIAL NUMBER SET TO    41

 REAL CONSTANT NUMBER=     41

 ELEMENT       1     301    302      0

 ELEMENT       2     302    303      0

 ELEMENT       3     303    304      0

 REAL CONSTANT NUMBER=     42

 ELEMENT       4     304    305      0

 REAL CONSTANT NUMBER=     43

 ELEMENT       5     305    306      0

 REAL CONSTANT NUMBER=     44

 ELEMENT       6     306    307      0

 ELEMENT       7     307    308      0

 REAL CONSTANT NUMBER=     45

 ELEMENT       8     308    309      0

 ELEMENT       9     309    310      0

 REAL CONSTANT NUMBER=     46

 ELEMENT      10     310    311      0

 ELEMENT      11     311    312      0

 ELEMENT      12     312    313      0

 ELEMENT TYPE SET TO      42

 REAL CONSTANT NUMBER=     47

 ELEMENT      13     304

 REAL CONSTANT NUMBER=     48

 ELEMENT      14     306

 REAL CONSTANT NUMBER=     49

 ELEMENT      15     308

 REAL CONSTANT NUMBER=     50

 ELEMENT      16     310

 REAL CONSTANT NUMBER=     51

 ELEMENT      17     313

 SPECIFIED CONSTRAINT UX   FOR SELECTED NODES       301 TO      301 BY        1
 REAL=          0.        IMAG=          0.
 ADDITIONAL DOFS=  UY    UZ    ROTX  ROTY  ROTZ

 USE LUMPED MASS MATRIX APPROXIMATION

 ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= primary.db
  FOR POSSIBLE RESUME FROM THIS POINT

 ***** ROUTINE COMPLETED *****  CP =         12.260


 *****  ANSYS SOLUTION ROUTINE  *****

 PERFORM A MODAL ANALYSIS
  THIS WILL BE A NEW ANALYSIS

 USE HOUSEHOLDER METHOD
  EXTRACT     2 MODES
  PRINT       0 REDUCED MODES
  NORMALIZE THE MODE SHAPES TO THE MASS MATRIX

 MASTER DOF UX   FOR SELECTED NODES IN RANGE   304 TO   310 IN STEPS OF     2
 ADDITIONAL DOFS=   UY    UZ
```

```
 NUMBER OF MASTER DOF=    12

 MASTER DOF UX   FOR SELECTED NODES IN RANGE   313 TO   313 IN STEPS OF     1
 ADDITIONAL DOFS=   UY    UZ
 NUMBER OF MASTER DOF=    15

 PRINT NSOL ITEMS WITH A FREQUENCY OF ALL
   FOR ALL APPLICABLE ENTITIES

 ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= primary.db
  FOR POSSIBLE RESUME FROM THIS POINT

 *****  ANSYS SOLVE    COMMAND  *****
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
 40416-2          VERSION=SUN4SPARC     15:45:24  OCT 11, 1995 CP=      12.620
 FOR SUPPORT CALL                  PHONE                    FAX

  Modal analysis of primary system

 **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**

                    S O L U T I O N   O P T I O N S

   PROBLEM DIMENSIONALITY. . . . . .3-D
   DEGREES OF FREEDOM. . . . . UX   UY   UZ   ROTX ROTY ROTZ
   ANALYSIS TYPE . . . . . .MODAL
      EXTRACTION METHOD. . . . . .REDUCED
   LUMPED MASS MATRICES. . . . . .ON
   NUMBER OF MODES TO EXTRACT. . . . . 2
   NUMBER OF REDUCED MODES TO PRINT. . . . . 0
   NUMBER OF MASTER DOF. . . . . 15

 *** WARNING ***                         CP=      12.760   TIME= 15:45:25
 Zero thickness element 1 may result in wrong thermal or bending stress.
   Check real constant table 41.

 *** WARNING ***                         CP=      12.770   TIME= 15:45:25
 Zero thickness el...  4 may result in wrong thermal or bending stress.
   Check real cons...  table 42.

 *** WARNING ***                         CP=      12.780   TIME= 15:45:25
 Zero thickness element 5 may result in wrong thermal or bending stress.
   Check real constant table 43.

 *** WARNING ***                         CP=      12.790   TIME= 15:45:25
 Zero thickness element 6 may result in wrong thermal or bending stress.
   Check real constant table 44.

 *** WARNING ***                         CP=      12.790   TIME= 15:45:25
 Zero thickness element 8 may result in wrong thermal or bending stress.
   Check real constant table 45.

 *** WARNING ***                         CP=      12.800   TIME= 15:45:25
 Zero thickness element 10 may result in wrong thermal or bending
  stress.  Check real constant table 46.

 *** NOTE ***                            CP=      12.880   TIME= 15:45:26
 The step data was checked and warning messages were found.
  Please review output or errors file ( file.err ) for these warning
  messages.

                    L O A D   S T E P   O P T I O N S

   LOAD STEP NUMBER. . . . . .  1



          ***** CENTROID, MASS, AND MASS MOMENTS OF INERTIA *****

   CALCULATIONS ASSUME ELEMENT MASS AT ELEMENT CENTROID

   TOTAL MASS =   45571.

                                MOM. OF INERTIA          MOM. OF INERTIA
      CENTROID                   ABOUT ORIGIN             ABOUT CENTROID

   XC =       0.          IXX =   0.2395E+13       IXX =   0.4287E+10
   YC =    7242.5         IYY =       0.           IYY =       0.
   ZC =       0.          IZZ =   0.2395E+13       IZZ =   0.4287E+10
                          IXY =       0.           IXY =       0.
                          IYZ =       0.           IYZ =       0.
                          IZX =       0.           IZX =       0.


   *** MASS SUMMARY BY ELEMENT TYPE ***

   TYPE      MASS
     42   45570.7
```



```
 Range of element maximum matrix coefficients in global coordinates
 Maximum= 1.4764297E+15 at element 3.
 Minimum= 1.46422077E+14 at element 9.

    *** ELEMENT MATRIX FORMULATION TIMES
  TYPE  NUMBER   ENAME      TOTAL CP  AVE CP

    41      12  BEAM4          0.340    0.028
    42       5  MASS21         0.020    0.004
 Time at end of element matrix formulation CP= 14.4000002.

 Estimated number of active DOF= 72.
 Maximum wavefront= 32.
 Number of Master DOF= 15.

 Time at end of matrix triangularization CP= 14.7400002.
 Equation solver maximum pivot= 2.9528594E+15 at node 302 ROTY.
 Equation solver minimum pivot= 913188377. at node 312 UZ.


      ***** EIGENVALUE (NATURAL FREQUENCY) SOLUTION *****

  MODE     FREQUENCY (CYCLES/TIME)

     1      10.1791843
     2      12.0366917


           ***** REDUCED MASS DISTRIBUTION *****

  ROW  NODE  DIR      VALUE

    1   313  UZ      7370.0
    2   306  UX      11462.
    3   306  UY      11462.
    4   304  UZ      11579.
    5   304  UY      11579.
    6   304  UX      11579.
    7   306  UZ      11462.
    8   313  UY      7370.0
    9   310  UZ      8300.3
   10   310  UX      8300.3
   11   310  UY      8300.3
   12   313  UX      7370.0
   13   308  UX      6860.1
   14   308  UY      6860.1
   15   308  UZ      6860.1

   MASS(X,Y,Z) =       0.4557E+05       0.4557E+05       0.4557E+0...
1

 ***** ANSYS - ENGINEERING ANALYSIS SYSTEM  REVISION 5.0      *****
 40416-2          VERSION=SUN4SPARC     15:45:46  OCT 11, 1995 CP=      14.900
 FOR SUPPORT CALL                  PHONE                    FAX

  Modal analysis of primary system

 **ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY**


         ***** PARTICIPATION FACTOR CALCULATION *****  X  DIRECTION

                                                                          CUMULATIVE
 MODE      FREQUENCY        PERIOD    PARTIC.FACTOR       RATIO      EFFECTIVE MASS     MASS FRACTION

    1      10.1792       0.98240E-01  -0.3602E-11       0.000000     0.130338E-22     0.448893E-27
    2      12.0367       0.83079E-01    170.40          1.000000       29035.3          1.00000
                                                 SUM OF EFFECTIVE MASSES=   29035.3


         ***** PARTICIPATION FACTOR CALCULATION *****  Y  DIRECTION

                                                                          CUMULATIVE
 MODE      FREQUENCY        PERIOD    PARTIC.FACTOR       RATIO      EFFECTIVE MASS     MASS FRACTION

    1      10.1792       0.98240E-01  -0.20494E-13      0.155686     0.419988E-27     0.236646E-01
    2      12.0367       0.83079E-01  -0.13163E-12      1.000000     0.173275E-25      1.00000
                                                 SUM OF EFFECTIVE MASSES=  0.177475E-25


         ***** PARTICIPATION FACTOR CALCULATION *****  Z  DIRECTION

                                                                          CUMULATIVE
 MODE      FREQUENCY        PERIOD    PARTIC.FACTOR       RATIO      EFFECTIVE MASS     MASS FRACTION

    1      10.1792       0.98240E-01    162.13          1.000000       26287.0          1.00000
    2      12.0367       0.83079E-01  0.97402E-11       0.000000     0.948707E-22       1.00000
                                                 SUM OF EFFECTIVE MASSES=   26287.0
```

*** PROBLEM STATISTICS
ACTUAL NO. OF ACTIVE DEGREES OF FREEDOM = 57
R.M.S. WAVEFRONT SIZE = 20.0
NUMBER OF MASTER DEGREES OF FREEDOM = 15

*** ANSYS BINARY FILE STATISTICS
BUFFER SIZE USED= 4096
0.016 MB WRITTEN ON ELEMENT MATRIX FILE: primary.emat
0.016 MB WRITTEN ON ELEMENT SAVED DATA FILE: primary.esav
0.016 MB WRITTEN ON TRIANGULARIZED MATRIX FILE: primary.tri
0.016 MB WRITTEN ON MODAL MATRIX FILE: primary.mode

FINISH SOLUTION PROCESSING

***** ROUTINE COMPLETED ***** CP = 15.010

***** ANSYS SOLUTION ROUTINE *****

PERFORM AN EXPANSION PASS

NUMBER OF MODES TO EXPAND= 2
DO NOT CALCULATE ELEMENT RESULTS

***** ANSYS SOLVE COMMAND *****
1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM REVISION 5.0 *****
40416-2 VERSION=SUN4SPARC 15:45:47 OCT 11, 1995 CP= 15.030
FOR SUPPORT CALL PHONE FAX

Modal analysis of primary system

ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY

S O L U T I O N O P T I O N S

PROBLEM DIMENSIONALITY. 3-D
DEGREES OF FREEDOM. . . . . . UX UY UZ ROTX ROTY ROTZ
ANALYSIS TYPE . . . . .MODAL
EXTRACTION METHOD. . . . . .REDUCED
EXPANSION PASS . . . . .ON
NUMBER OF MODES TO EXPAND 2
ELEMENT RESULTS CALCULATION . . . . .OFF

L O A D S T E P O P T I O N S

LOAD STEP NUMBER. 1
PRINT OUTPUT CONTROLS
ITEM FREQUENCY COMPONENT
NSOL ALL
DATABASE OUTPUT CONTROLS. . . . . .ALL DATA WRITTEN
1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM REVISION 5.0 *****
40416-2 VERSION=SUN4SPARC 15:45:47 OCT 11, 1995 CP= 15.120
FOR SUPPORT CALL PHONE FAX

Modal analysis of primary system

ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY

***** EIGENVECTOR (MODE SHAPE) SOLUTION ***** FREQUENCY = 10.179
LOAD STEP= 1 MODE = 1 CUM. ITER.= 1

NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

NODE	UX	UY	UZ	ROTX	ROTY	ROTZ
301	0.	0.	0.	0.	0.	0.
302	-0.481585E-17	-0.171961E-18	0.153331E-03	0.363273E-06	0.	0.946949E-
303	-0.996360E-17	-0.343922E-18	0.319405E-03	0.708001E-06	0.	0.184387E-
304	-0.154252E-16	-0.515883E-18	0.497556E-03	0.103419E-05	0.	0.269075E-
305	-0.196881E-16	-0.606345E-18	0.639692E-03	0.139969E-05	0.	0.352355E-
306	-0.435549E-16	-0.103702E-17	0.167155E-02	0.207272E-05	0.	0.603555E-
307	-0.552126E-16	-0.674107E-18	0.218373E-02	0.233700E-05	0.	0.701130E-
308	-0.743766E-16	-0.113237E-18	0.300633E-02	0.267324E-05	0.	0.825453E-
309	-0.883803E-16	-0.114395E-18	0.372778E-02	0.386769E-05	0.	0.955991E-
310	-0.130094E-15	-0.117553E-18	0.601860E-02	0.603442E-05	0.	0.119126E-
311	-0.141616E-15	-0.118030E-18	0.667779E-02	0.637438E-05	0.	0.122514E-
312	-0.161843E-15	-0.118851E-18	0.785188E-02	0.675675E-05	0.	0.126325E-
313	-0.182140E-15	-0.119663E-18	0.904116E-02	0.688260E-05	0.	0.127580E-

MAXIMUMS						
NODE	313	306	313	313	0	313
VALUE	-0.182140E-15	-0.103702E-17	0.904116E-02	0.688260E-05	0.	0.127580E-

1

***** ANSYS - ENGINEERING ANALYSIS SYSTEM REVISION 5.0 *****
40416-2 VERSION=SUN4SPARC 15:45:48 OCT 11, 1995 CP= 15.240
FOR SUPPORT CALL PHONE FAX

Modal analysis of primary system

ANSYS VERSION FOR EDUCATIONAL PURPOSES ONLY

***** EIGENVECTOR (MODE SHAPE) SOLUTION ***** FREQUENCY = 12.037
LOAD STEP= 1 MODE = 2 CUM. ITER.= 2

NOTE - ALL VECTOR DOFS ARE IN NODAL COORDINATE SYSTEMS.

NODE	UX	UY	UZ	ROTX	ROTY	ROTZ
301	0.	0.	0.	0.	0.	0.
302	0.228903E-03	-0.253472E-18	0.909753E-17	0.218220E-19	0.	-0.446263E-
303	0.473444E-03	-0.506944E-18	0.189609E-16	0.425442E-19	0.	-0.868739E-
304	0.732765E-03	-0.760415E-18	0.295504E-16	0.621669E-19	0.	-0.126743E-
305	0.927839E-03	-0.968423E-18	0.380893E-16	0.841658E-19	0.	-0.166003E-
306	0.201879E-02	-0.195872E-17	0.100073E-15	0.124692E-18	0.	-0.285481E-
307	0.258760E-02	-0.231366E-17	0.130883E-15	0.140615E-18	0.	-0.332225E-
308	0.352144E-02	-0.286219E-17	0.180372E-15	0.160880E-18	0.	-0.391325E-
309	0.418378E-02	-0.336119E-17	0.223853E-15	0.232889E-18	0.	-0.452970E-
310	0.615648E-02	-0.472209E-17	0.361925E-15	0.363498E-18	0.	-0.564067E-
311	0.670152E-02	-0.492895E-17	0.401642E-15	0.383987E-18	0.	-0.580067E-
312	0.765824E-02	-0.528502E-17	0.472382E-15	0.407032E-18	0.	-0.598062E-
313	0.861827E-02	-0.563770E-17	0.544039E-15	0.414616E-18	0	-0.603985E-

MAXIMUMS						
NODE	313	313	313	313	0	313
VALUE	0.861827E-02	-0.563770E-17	0.544039E-15	0.414616E-18	0.	-0.603985E-

*** ANSYS BINARY FILE STATISTICS
BUFFER SIZE USED= 4096
0.047 MB WRITTEN ON RESULTS FILE: primary.rst

ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= primary.db
FOR POSSIBLE RESUME FROM THIS POINT

FINISH SOLUTION PROCESSING

***** ROUTINE COMPLETED ***** CP = 15.600

***** END OF INPUT ENCOUNTERED *****

PURGE ALL SOLUTION AND POST DATA
SAVE ALL MODEL DATA

ALL CURRENT ANSYS DATA WRITTEN TO FILE NAME= primary.db
FOR POSSIBLE RESUME FROM THIS POINT

NUMBER OF WARNING MESSAGES ENCOUNTERED= 6
NUMBER OF ERROR MESSAGES ENCOUNTERED= 0

ANSYS RUN COMPLETED

REV. 5.0		SUN4SPARC	
CP TIME (sec) =	15.940	TIME =	15:45:54
ELAPSED TIME (sec) =	93.000	DATE =	10/11/95