

HLWYM HEmails

From: David Pickett
Sent: Friday, January 31, 2003 5:03 PM
To: Ronald Janetzke
Subject: Kd's and Rd's
Attachments: Jan02_UZ_Kd_colloid.txt; Jan02_SZ_Rd_colloids_pdf.txt; Jan02_SZ_Rd_colloids_const.txt

Ron,

Attached are three text files of TPA parameters modified to reflect the effect of reversible colloid attachment.

Jan02_UZ_Kd_colloid.txt

Cumulative PDF's of effective Kd (m³/kg) for Am, Np, U, Pu, Th, Ra, Pb, Cs, Ni, and Se for matrix in each of the seven UZ hydrogeologic units. 70 comma-delimited tables with the name of the parameter above each.

Jan02_SZ_Rd_colloids_pdf.txt

Cumulative PDF's of effective Rd for Am, Np, U, Pu, Th, Ra, Pb, Cs, Ni, Se, and Nb for alluvium matrix. Eleven comma-delimited tables with the name of the parameter above each.

Jan02_SZ_Rd_colloids_const.txt

A table of effective Rd for the SZ for which a constant value is used in TPA. For the "immobile" tuff matrix, new Rd's were calculated for Am, Np, Cm, U, Pu, Th, Ra, Pb, Cs, Ni, Se, and Nb. Note that this is the "R,eff" value that assumes DiffusionRate_STFF is fixed at 0.001 m²/y. For alluvium matrix, a new constant value is given for Cm.

I did not provide data if the TPA input Kd was constant and zero or the Rd constant and unity.

A lot of the lower-Kd and lower-Rd values are changed very little, but I will probably want to play around with the values later.

David

Hearing Identifier: HLW_YuccaMountain_Hold_EX
Email Number: 654

Mail Envelope Properties (dpickett@cnwra.swri.edu20030131170300)

Subject: Kd's and Rd's
Sent Date: 1/31/2003 5:03:02 PM
Received Date: 1/31/2003 5:03:00 PM
From: David Pickett

Created By: dpickett@cnwra.swri.edu

Recipients:
"Ronald Janetzke" <rjanetzke@cnwra.swri.edu>
Tracking Status: None

Post Office:

Files	Size	Date & Time
MESSAGE	1194	1/31/2003 5:03:00 PM
Jan02_UZ_Kd_colloid.txt	60752	
Jan02_SZ_Rd_colloids_pdf.txt	12733	
Jan02_SZ_Rd_colloids_const.txt	4062	

Options
Priority: Standard
Return Notification: No
Reply Requested: No
Sensitivity: Normal
Expiration Date:
Recipients Received:

Kd,eff (m3/kg),cumul prob

MatrixKD_TSw_Am

1.6933,0.0013
1.6934,0.0019
1.6935,0.0026
1.6936,0.0035
1.6937,0.0062
1.6938,0.0082
1.6939,0.0107
1.6939,0.0139
1.6940,0.0228
1.6941,0.0287
1.6941,0.0359
1.6942,0.0446
1.6943,0.0668
1.6943,0.0808
1.6943,0.0968
1.6944,0.1151
1.6944,0.1587
1.6945,0.1841
1.6945,0.2119
1.6945,0.2420
1.6946,0.3085
1.6946,0.3446
1.6946,0.3821
1.6946,0.4207
1.6947,0.5000
1.6947,0.5398
1.6947,0.5793
1.6947,0.6179
1.6947,0.6915
1.6947,0.7257
1.6948,0.7580
1.6948,0.7881
1.6948,0.8413
1.6948,0.8643
1.6948,0.8849
1.6948,0.9032
1.6948,0.9332
1.6948,0.9452
1.6948,0.9554
1.6948,0.9641
1.6948,0.9772
1.6948,0.9821
1.6949,0.9861
1.6949,0.9893
1.6949,0.9938
1.6949,0.9953
1.6949,0.9965
1.6949,0.9974
1.6949,0.9981
1.6949,0.9987

MatrixKD_ChnvAm

1.6944,0.0013

1.6944,0.0019
1.6944,0.0026
1.6945,0.0035
1.6945,0.0062
1.6945,0.0082
1.6946,0.0107
1.6946,0.0139
1.6946,0.0228
1.6946,0.0287
1.6947,0.0359
1.6947,0.0446
1.6947,0.0668
1.6947,0.0808
1.6947,0.0968
1.6947,0.1151
1.6948,0.1587
1.6948,0.1841
1.6948,0.2119
1.6948,0.2420
1.6948,0.3085
1.6948,0.3446
1.6948,0.3821
1.6948,0.4207
1.6948,0.5000
1.6948,0.5398
1.6948,0.5793
1.6948,0.6179
1.6949,0.6915
1.6949,0.7257
1.6949,0.7580
1.6949,0.7881
1.6949,0.8413
1.6949,0.8643
1.6949,0.8849
1.6949,0.9032
1.6949,0.9332
1.6949,0.9452
1.6949,0.9554
1.6949,0.9641
1.6949,0.9772
1.6949,0.9821
1.6949,0.9861
1.6949,0.9893
1.6949,0.9938
1.6949,0.9953
1.6949,0.9965
1.6949,0.9974
1.6949,0.9981
1.6949,0.9987

MatrixKD_CHnzAm

1.6943,0.0013
1.6944,0.0019
1.6944,0.0026
1.6944,0.0035
1.6945,0.0062

1.6945,0.0082
1.6945,0.0107
1.6946,0.0139
1.6946,0.0228
1.6946,0.0287
1.6946,0.0359
1.6947,0.0446
1.6947,0.0668
1.6947,0.0808
1.6947,0.0968
1.6947,0.1151
1.6947,0.1587
1.6948,0.1841
1.6948,0.2119
1.6948,0.2420
1.6948,0.3085
1.6948,0.3446
1.6948,0.3821
1.6948,0.4207
1.6948,0.5000
1.6948,0.5398
1.6948,0.5793
1.6948,0.6179
1.6948,0.6915
1.6949,0.7257
1.6949,0.7580
1.6949,0.7881
1.6949,0.8413
1.6949,0.8643
1.6949,0.8849
1.6949,0.9032
1.6949,0.9332
1.6949,0.9452
1.6949,0.9554
1.6949,0.9641
1.6949,0.9772
1.6949,0.9821
1.6949,0.9861
1.6949,0.9893
1.6949,0.9938
1.6949,0.9953
1.6949,0.9965
1.6949,0.9974
1.6949,0.9981
1.6949,0.9987

MatrixKD_PPw_Am

1.6942,0.0013
1.6942,0.0019
1.6942,0.0026
1.6942,0.0035
1.6943,0.0062
1.6943,0.0082
1.6943,0.0107
1.6943,0.0139
1.6944,0.0228

1.6944,0.0287
1.6944,0.0359
1.6944,0.0446
1.6944,0.0668
1.6944,0.0808
1.6944,0.0968
1.6944,0.1151
1.6945,0.1587
1.6945,0.1841
1.6945,0.2119
1.6945,0.2420
1.6945,0.3085
1.6945,0.3446
1.6945,0.3821
1.6945,0.4207
1.6946,0.5000
1.6946,0.5398
1.6946,0.5793
1.6946,0.6179
1.6946,0.6915
1.6946,0.7257
1.6946,0.7580
1.6946,0.7881
1.6946,0.8413
1.6946,0.8643
1.6947,0.8849
1.6947,0.9032
1.6947,0.9332
1.6947,0.9452
1.6947,0.9554
1.6947,0.9641
1.6947,0.9772
1.6947,0.9821
1.6947,0.9861
1.6947,0.9893
1.6947,0.9938
1.6947,0.9953
1.6947,0.9965
1.6947,0.9974
1.6947,0.9981
1.6947,0.9987

MatrixKD_UCF_Am

1.6942,0.0013
1.6943,0.0019
1.6943,0.0026
1.6943,0.0035
1.6944,0.0062
1.6944,0.0082
1.6945,0.0107
1.6945,0.0139
1.6945,0.0228
1.6946,0.0287
1.6946,0.0359
1.6946,0.0446
1.6946,0.0668

1.6947,0.0808
1.6947,0.0968
1.6947,0.1151
1.6947,0.1587
1.6947,0.1841
1.6947,0.2119
1.6948,0.2420
1.6948,0.3085
1.6948,0.3446
1.6948,0.3821
1.6948,0.4207
1.6948,0.5000
1.6948,0.5398
1.6948,0.5793
1.6948,0.6179
1.6948,0.6915
1.6948,0.7257
1.6948,0.7580
1.6949,0.7881
1.6949,0.8413
1.6949,0.8643
1.6949,0.8849
1.6949,0.9032
1.6949,0.9332
1.6949,0.9452
1.6949,0.9554
1.6949,0.9641
1.6949,0.9772
1.6949,0.9821
1.6949,0.9861
1.6949,0.9893
1.6949,0.9938
1.6949,0.9953
1.6949,0.9965
1.6949,0.9974
1.6949,0.9981
1.6949,0.9987

MatrixKD_BFw_Am

1.6932,0.0013
1.6933,0.0019
1.6934,0.0026
1.6935,0.0035
1.6937,0.0062
1.6938,0.0082
1.6938,0.0107
1.6939,0.0139
1.6940,0.0228
1.6941,0.0287
1.6941,0.0359
1.6942,0.0446
1.6943,0.0668
1.6943,0.0808
1.6943,0.0968
1.6944,0.1151
1.6944,0.1587

1.6945,0.1841
1.6945,0.2119
1.6945,0.2420
1.6946,0.3085
1.6946,0.3446
1.6946,0.3821
1.6946,0.4207
1.6947,0.5000
1.6947,0.5398
1.6947,0.5793
1.6947,0.6179
1.6947,0.6915
1.6947,0.7257
1.6947,0.7580
1.6948,0.7881
1.6948,0.8413
1.6948,0.8643
1.6948,0.8849
1.6948,0.9032
1.6948,0.9332
1.6948,0.9452
1.6948,0.9554
1.6948,0.9641
1.6948,0.9772
1.6948,0.9821
1.6948,0.9861
1.6949,0.9893
1.6949,0.9938
1.6949,0.9953
1.6949,0.9965
1.6949,0.9974
1.6949,0.9981
1.6949,0.9987

MatrixKD_UFZ_Am

1.6932,0.0013
1.6933,0.0019
1.6934,0.0026
1.6935,0.0035
1.6936,0.0062
1.6937,0.0082
1.6938,0.0107
1.6938,0.0139
1.6940,0.0228
1.6940,0.0287
1.6941,0.0359
1.6941,0.0446
1.6942,0.0668
1.6943,0.0808
1.6943,0.0968
1.6943,0.1151
1.6944,0.1587
1.6944,0.1841
1.6945,0.2119
1.6945,0.2420
1.6945,0.3085

1.6946,0.3446
1.6946,0.3821
1.6946,0.4207
1.6946,0.5000
1.6947,0.5398
1.6947,0.5793
1.6947,0.6179
1.6947,0.6915
1.6947,0.7257
1.6947,0.7580
1.6948,0.7881
1.6948,0.8413
1.6948,0.8643
1.6948,0.8849
1.6948,0.9032
1.6948,0.9332
1.6948,0.9452
1.6948,0.9554
1.6948,0.9641
1.6948,0.9772
1.6948,0.9821
1.6948,0.9861
1.6949,0.9893
1.6949,0.9938
1.6949,0.9953
1.6949,0.9965
1.6949,0.9974
1.6949,0.9981
1.6949,0.9987

MatrixKD_TSw_Np

3.25E-03,0.0013
3.37E-03,0.0019
3.50E-03,0.0026
3.63E-03,0.0035
3.90E-03,0.0062
4.05E-03,0.0082
4.20E-03,0.0107
4.35E-03,0.0139
4.68E-03,0.0228
4.86E-03,0.0287
5.04E-03,0.0359
5.22E-03,0.0446
5.62E-03,0.0668
5.82E-03,0.0808
6.04E-03,0.0968
6.26E-03,0.1151
6.74E-03,0.1587
6.98E-03,0.1841
7.24E-03,0.2119
7.51E-03,0.2420
8.08E-03,0.3085
8.38E-03,0.3446
8.69E-03,0.3821
9.01E-03,0.4207
9.68E-03,0.5000

1.00E-02,0.5398
1.04E-02,0.5793
1.08E-02,0.6179
1.16E-02,0.6915
1.20E-02,0.7257
1.25E-02,0.7580
1.29E-02,0.7881
1.39E-02,0.8413
1.44E-02,0.8643
1.50E-02,0.8849
1.55E-02,0.9032
1.67E-02,0.9332
1.73E-02,0.9452
1.79E-02,0.9554
1.86E-02,0.9641
2.00E-02,0.9772
2.07E-02,0.9821
2.15E-02,0.9861
2.22E-02,0.9893
2.39E-02,0.9938
2.48E-02,0.9953
2.57E-02,0.9965
2.66E-02,0.9974
2.76E-02,0.9981
2.86E-02,0.9987

MatrixKD_ChnvNp

9.85E-03,0.0013
1.02E-02,0.0019
1.06E-02,0.0026
1.10E-02,0.0035
1.18E-02,0.0062
1.22E-02,0.0082
1.27E-02,0.0107
1.32E-02,0.0139
1.42E-02,0.0228
1.47E-02,0.0287
1.52E-02,0.0359
1.58E-02,0.0446
1.70E-02,0.0668
1.76E-02,0.0808
1.82E-02,0.0968
1.89E-02,0.1151
2.03E-02,0.1587
2.11E-02,0.1841
2.18E-02,0.2119
2.26E-02,0.2420
2.43E-02,0.3085
2.52E-02,0.3446
2.61E-02,0.3821
2.71E-02,0.4207
2.91E-02,0.5000
3.02E-02,0.5398
3.13E-02,0.5793
3.24E-02,0.6179
3.48E-02,0.6915

3.61E-02,0.7257
3.74E-02,0.7580
3.87E-02,0.7881
4.16E-02,0.8413
4.31E-02,0.8643
4.46E-02,0.8849
4.63E-02,0.9032
4.97E-02,0.9332
5.14E-02,0.9452
5.33E-02,0.9554
5.52E-02,0.9641
5.92E-02,0.9772
6.14E-02,0.9821
6.36E-02,0.9861
6.58E-02,0.9893
7.06E-02,0.9938
7.31E-02,0.9953
7.57E-02,0.9965
7.84E-02,0.9974
8.12E-02,0.9981
8.40E-02,0.9987

MatrixKD_CHnzNp

8.96E-03,0.0013
9.29E-03,0.0019
9.64E-03,0.0026
9.99E-03,0.0035
1.07E-02,0.0062
1.11E-02,0.0082
1.16E-02,0.0107
1.20E-02,0.0139
1.29E-02,0.0228
1.33E-02,0.0287
1.38E-02,0.0359
1.44E-02,0.0446
1.54E-02,0.0668
1.60E-02,0.0808
1.66E-02,0.0968
1.72E-02,0.1151
1.85E-02,0.1587
1.92E-02,0.1841
1.99E-02,0.2119
2.06E-02,0.2420
2.21E-02,0.3085
2.29E-02,0.3446
2.38E-02,0.3821
2.46E-02,0.4207
2.65E-02,0.5000
2.74E-02,0.5398
2.84E-02,0.5793
2.95E-02,0.6179
3.17E-02,0.6915
3.28E-02,0.7257
3.40E-02,0.7580
3.53E-02,0.7881
3.79E-02,0.8413

3.92E-02,0.8643
4.07E-02,0.8849
4.21E-02,0.9032
4.52E-02,0.9332
4.69E-02,0.9452
4.86E-02,0.9554
5.03E-02,0.9641
5.40E-02,0.9772
5.59E-02,0.9821
5.79E-02,0.9861
6.00E-02,0.9893
6.44E-02,0.9938
6.67E-02,0.9953
6.90E-02,0.9965
7.15E-02,0.9974
7.40E-02,0.9981
7.67E-02,0.9987

MatrixKD_PPw_Np

7.40E-03,0.0013
7.67E-03,0.0019
7.95E-03,0.0026
8.25E-03,0.0035
8.87E-03,0.0062
9.20E-03,0.0082
9.54E-03,0.0107
9.89E-03,0.0139
1.06E-02,0.0228
1.10E-02,0.0287
1.14E-02,0.0359
1.19E-02,0.0446
1.27E-02,0.0668
1.32E-02,0.0808
1.37E-02,0.0968
1.42E-02,0.1151
1.53E-02,0.1587
1.58E-02,0.1841
1.64E-02,0.2119
1.70E-02,0.2420
1.83E-02,0.3085
1.90E-02,0.3446
1.97E-02,0.3821
2.04E-02,0.4207
2.19E-02,0.5000
2.27E-02,0.5398
2.35E-02,0.5793
2.44E-02,0.6179
2.62E-02,0.6915
2.72E-02,0.7257
2.82E-02,0.7580
2.92E-02,0.7881
3.14E-02,0.8413
3.25E-02,0.8643
3.37E-02,0.8849
3.49E-02,0.9032
3.75E-02,0.9332

3.89E-02,0.9452
4.03E-02,0.9554
4.17E-02,0.9641
4.48E-02,0.9772
4.64E-02,0.9821
4.81E-02,0.9861
4.98E-02,0.9893
5.35E-02,0.9938
5.54E-02,0.9953
5.74E-02,0.9965
5.95E-02,0.9974
6.16E-02,0.9981
6.38E-02,0.9987

MatrixKD_UCF_Np

7.73E-03,0.0013
8.02E-03,0.0019
8.32E-03,0.0026
8.62E-03,0.0035
9.27E-03,0.0062
9.62E-03,0.0082
9.97E-03,0.0107
1.03E-02,0.0139
1.11E-02,0.0228
1.15E-02,0.0287
1.20E-02,0.0359
1.24E-02,0.0446
1.33E-02,0.0668
1.38E-02,0.0808
1.43E-02,0.0968
1.48E-02,0.1151
1.60E-02,0.1587
1.65E-02,0.1841
1.72E-02,0.2119
1.78E-02,0.2420
1.91E-02,0.3085
1.98E-02,0.3446
2.05E-02,0.3821
2.13E-02,0.4207
2.29E-02,0.5000
2.37E-02,0.5398
2.46E-02,0.5793
2.55E-02,0.6179
2.74E-02,0.6915
2.84E-02,0.7257
2.94E-02,0.7580
3.05E-02,0.7881
3.28E-02,0.8413
3.40E-02,0.8643
3.52E-02,0.8849
3.65E-02,0.9032
3.92E-02,0.9332
4.06E-02,0.9452
4.21E-02,0.9554
4.36E-02,0.9641
4.68E-02,0.9772

4.85E-02,0.9821
5.02E-02,0.9861
5.20E-02,0.9893
5.58E-02,0.9938
5.78E-02,0.9953
5.99E-02,0.9965
6.21E-02,0.9974
6.43E-02,0.9981
6.66E-02,0.9987

MatrixKD_BFw_Np

3.14E-03,0.0013
3.26E-03,0.0019
3.38E-03,0.0026
3.51E-03,0.0035
3.77E-03,0.0062
3.91E-03,0.0082
4.06E-03,0.0107
4.21E-03,0.0139
4.52E-03,0.0228
4.69E-03,0.0287
4.87E-03,0.0359
5.05E-03,0.0446
5.43E-03,0.0668
5.63E-03,0.0808
5.84E-03,0.0968
6.05E-03,0.1151
6.51E-03,0.1587
6.75E-03,0.1841
7.00E-03,0.2119
7.26E-03,0.2420
7.80E-03,0.3085
8.09E-03,0.3446
8.39E-03,0.3821
8.70E-03,0.4207
9.36E-03,0.5000
9.70E-03,0.5398
1.01E-02,0.5793
1.04E-02,0.6179
1.12E-02,0.6915
1.16E-02,0.7257
1.21E-02,0.7580
1.25E-02,0.7881
1.34E-02,0.8413
1.39E-02,0.8643
1.45E-02,0.8849
1.50E-02,0.9032
1.61E-02,0.9332
1.67E-02,0.9452
1.73E-02,0.9554
1.79E-02,0.9641
1.93E-02,0.9772
2.00E-02,0.9821
2.07E-02,0.9861
2.15E-02,0.9893
2.31E-02,0.9938

2.39E-02,0.9953
2.48E-02,0.9965
2.57E-02,0.9974
2.67E-02,0.9981
2.76E-02,0.9987

MatrixKD_UFZ_Np

3.03E-03,0.0013
3.15E-03,0.0019
3.26E-03,0.0026
3.38E-03,0.0035
3.64E-03,0.0062
3.77E-03,0.0082
3.91E-03,0.0107
4.06E-03,0.0139
4.37E-03,0.0228
4.53E-03,0.0287
4.70E-03,0.0359
4.87E-03,0.0446
5.24E-03,0.0668
5.43E-03,0.0808
5.63E-03,0.0968
5.84E-03,0.1151
6.28E-03,0.1587
6.51E-03,0.1841
6.75E-03,0.2119
7.00E-03,0.2420
7.53E-03,0.3085
7.81E-03,0.3446
8.10E-03,0.3821
8.40E-03,0.4207
9.03E-03,0.5000
9.36E-03,0.5398
9.71E-03,0.5793
1.01E-02,0.6179
1.08E-02,0.6915
1.12E-02,0.7257
1.16E-02,0.7580
1.21E-02,0.7881
1.30E-02,0.8413
1.34E-02,0.8643
1.39E-02,0.8849
1.45E-02,0.9032
1.55E-02,0.9332
1.61E-02,0.9452
1.67E-02,0.9554
1.73E-02,0.9641
1.86E-02,0.9772
1.93E-02,0.9821
2.00E-02,0.9861
2.07E-02,0.9893
2.23E-02,0.9938
2.31E-02,0.9953
2.39E-02,0.9965
2.48E-02,0.9974
2.57E-02,0.9981

2.67E-02,0.9987

MatrixKD_TSw_U

1.84E-05,0.0013
2.20E-05,0.0019
2.62E-05,0.0026
3.13E-05,0.0035
4.45E-05,0.0062
5.31E-05,0.0082
6.34E-05,0.0107
7.56E-05,0.0139
1.08E-04,0.0228
1.28E-04,0.0287
1.53E-04,0.0359
1.83E-04,0.0446
2.60E-04,0.0668
3.11E-04,0.0808
3.71E-04,0.0968
4.42E-04,0.1151
6.29E-04,0.1587
7.51E-04,0.1841
8.96E-04,0.2119
1.07E-03,0.2420
1.52E-03,0.3085
1.81E-03,0.3446
2.16E-03,0.3821
2.58E-03,0.4207
3.67E-03,0.5000
4.38E-03,0.5398
5.23E-03,0.5793
6.23E-03,0.6179
8.86E-03,0.6915
1.06E-02,0.7257
1.26E-02,0.7580
1.50E-02,0.7881
2.13E-02,0.8413
2.53E-02,0.8643
3.01E-02,0.8849
3.58E-02,0.9032
5.05E-02,0.9332
6.00E-02,0.9452
7.11E-02,0.9554
8.41E-02,0.9641
1.17E-01,0.9772
1.38E-01,0.9821
1.62E-01,0.9861
1.90E-01,0.9893
2.58E-01,0.9938
2.99E-01,0.9953
3.45E-01,0.9965
3.97E-01,0.9974
4.53E-01,0.9981
5.14E-01,0.9987

MatrixKD_ChvU

5.58E-05,0.0013

6.65E-05,0.0019
7.92E-05,0.0026
9.43E-05,0.0035
1.34E-04,0.0062
1.59E-04,0.0082
1.90E-04,0.0107
2.26E-04,0.0139
3.21E-04,0.0228
3.83E-04,0.0287
4.56E-04,0.0359
5.43E-04,0.0446
7.70E-04,0.0668
9.18E-04,0.0808
1.09E-03,0.0968
1.30E-03,0.1151
1.85E-03,0.1587
2.20E-03,0.1841
2.62E-03,0.2119
3.12E-03,0.2420
4.42E-03,0.3085
5.27E-03,0.3446
6.27E-03,0.3821
7.47E-03,0.4207
1.06E-02,0.5000
1.26E-02,0.5398
1.50E-02,0.5793
1.78E-02,0.6179
2.52E-02,0.6915
2.99E-02,0.7257
3.55E-02,0.7580
4.21E-02,0.7881
5.91E-02,0.8413
7.00E-02,0.8643
8.27E-02,0.8849
9.76E-02,0.9032
1.35E-01,0.9332
1.59E-01,0.9452
1.86E-01,0.9554
2.17E-01,0.9641
2.92E-01,0.9772
3.37E-01,0.9821
3.86E-01,0.9861
4.41E-01,0.9893
5.64E-01,0.9938
6.32E-01,0.9953
7.03E-01,0.9965
7.76E-01,0.9974
8.50E-01,0.9981
9.24E-01,0.9987

MatrixKD_CHnzU
5.07E-05,0.0013
6.05E-05,0.0019
7.22E-05,0.0026
8.61E-05,0.0035
1.23E-04,0.0062

1.46E-04,0.0082
1.75E-04,0.0107
2.08E-04,0.0139
2.96E-04,0.0228
3.54E-04,0.0287
4.22E-04,0.0359
5.04E-04,0.0446
7.17E-04,0.0668
8.55E-04,0.0808
1.02E-03,0.0968
1.22E-03,0.1151
1.73E-03,0.1587
2.07E-03,0.1841
2.47E-03,0.2119
2.94E-03,0.2420
4.18E-03,0.3085
4.99E-03,0.3446
5.95E-03,0.3821
7.10E-03,0.4207
1.01E-02,0.5000
1.20E-02,0.5398
1.43E-02,0.5793
1.71E-02,0.6179
2.42E-02,0.6915
2.88E-02,0.7257
3.42E-02,0.7580
4.07E-02,0.7881
5.73E-02,0.8413
6.80E-02,0.8643
8.05E-02,0.8849
9.51E-02,0.9032
1.32E-01,0.9332
1.56E-01,0.9452
1.82E-01,0.9554
2.13E-01,0.9641
2.88E-01,0.9772
3.33E-01,0.9821
3.83E-01,0.9861
4.37E-01,0.9893
5.61E-01,0.9938
6.30E-01,0.9953
7.01E-01,0.9965
7.74E-01,0.9974
8.49E-01,0.9981
9.24E-01,0.9987

MatrixKD_PPw_U

4.18E-05,0.0013
4.99E-05,0.0019
5.95E-05,0.0026
7.10E-05,0.0035
1.01E-04,0.0062
1.21E-04,0.0082
1.44E-04,0.0107
1.72E-04,0.0139
2.45E-04,0.0228

2.92E-04,0.0287
3.48E-04,0.0359
4.16E-04,0.0446
5.92E-04,0.0668
7.06E-04,0.0808
8.42E-04,0.0968
1.00E-03,0.1151
1.43E-03,0.1587
1.71E-03,0.1841
2.04E-03,0.2119
2.43E-03,0.2420
3.46E-03,0.3085
4.12E-03,0.3446
4.92E-03,0.3821
5.86E-03,0.4207
8.34E-03,0.5000
9.94E-03,0.5398
1.18E-02,0.5793
1.41E-02,0.6179
2.00E-02,0.6915
2.39E-02,0.7257
2.84E-02,0.7580
3.38E-02,0.7881
4.77E-02,0.8413
5.66E-02,0.8643
6.71E-02,0.8849
7.94E-02,0.9032
1.11E-01,0.9332
1.31E-01,0.9452
1.54E-01,0.9554
1.80E-01,0.9641
2.45E-01,0.9772
2.85E-01,0.9821
3.29E-01,0.9861
3.79E-01,0.9893
4.93E-01,0.9938
5.57E-01,0.9953
6.24E-01,0.9965
6.96E-01,0.9974
7.69E-01,0.9981
8.44E-01,0.9987

MatrixKD_UCF_U
4.37E-05,0.0013
5.21E-05,0.0019
6.22E-05,0.0026
7.42E-05,0.0035
1.06E-04,0.0062
1.26E-04,0.0082
1.50E-04,0.0107
1.80E-04,0.0139
2.56E-04,0.0228
3.05E-04,0.0287
3.64E-04,0.0359
4.34E-04,0.0446
6.18E-04,0.0668

7.37E-04,0.0808
8.80E-04,0.0968
1.05E-03,0.1151
1.49E-03,0.1587
1.78E-03,0.1841
2.13E-03,0.2119
2.54E-03,0.2420
3.61E-03,0.3085
4.30E-03,0.3446
5.13E-03,0.3821
6.12E-03,0.4207
8.70E-03,0.5000
1.04E-02,0.5398
1.24E-02,0.5793
1.47E-02,0.6179
2.09E-02,0.6915
2.49E-02,0.7257
2.96E-02,0.7580
3.52E-02,0.7881
4.97E-02,0.8413
5.89E-02,0.8643
6.98E-02,0.8849
8.27E-02,0.9032
1.15E-01,0.9332
1.36E-01,0.9452
1.60E-01,0.9554
1.87E-01,0.9641
2.54E-01,0.9772
2.95E-01,0.9821
3.40E-01,0.9861
3.91E-01,0.9893
5.07E-01,0.9938
5.72E-01,0.9953
6.41E-01,0.9965
7.12E-01,0.9974
7.86E-01,0.9981
8.61E-01,0.9987

MatrixKD_BFw_U

1.78E-05,0.0013
2.12E-05,0.0019
2.53E-05,0.0026
3.02E-05,0.0035
4.30E-05,0.0062
5.14E-05,0.0082
6.13E-05,0.0107
7.31E-05,0.0139
1.04E-04,0.0228
1.24E-04,0.0287
1.48E-04,0.0359
1.77E-04,0.0446
2.52E-04,0.0668
3.00E-04,0.0808
3.58E-04,0.0968
4.27E-04,0.1151
6.08E-04,0.1587

7.26E-04,0.1841
8.66E-04,0.2119
1.03E-03,0.2420
1.47E-03,0.3085
1.75E-03,0.3446
2.09E-03,0.3821
2.50E-03,0.4207
3.55E-03,0.5000
4.23E-03,0.5398
5.05E-03,0.5793
6.02E-03,0.6179
8.56E-03,0.6915
1.02E-02,0.7257
1.22E-02,0.7580
1.45E-02,0.7881
2.05E-02,0.8413
2.45E-02,0.8643
2.91E-02,0.8849
3.46E-02,0.9032
4.88E-02,0.9332
5.80E-02,0.9452
6.87E-02,0.9554
8.13E-02,0.9641
1.13E-01,0.9772
1.34E-01,0.9821
1.57E-01,0.9861
1.84E-01,0.9893
2.51E-01,0.9938
2.91E-01,0.9953
3.36E-01,0.9965
3.86E-01,0.9974
4.41E-01,0.9981
5.01E-01,0.9987

MatrixKD_UFZ_U
1.71E-05,0.0013
2.04E-05,0.0019
2.43E-05,0.0026
2.91E-05,0.0035
4.14E-05,0.0062
4.94E-05,0.0082
5.89E-05,0.0107
7.03E-05,0.0139
1.00E-04,0.0228
1.19E-04,0.0287
1.42E-04,0.0359
1.70E-04,0.0446
2.42E-04,0.0668
2.89E-04,0.0808
3.44E-04,0.0968
4.11E-04,0.1151
5.85E-04,0.1587
6.98E-04,0.1841
8.33E-04,0.2119
9.94E-04,0.2420
1.41E-03,0.3085

1.69E-03,0.3446
2.01E-03,0.3821
2.40E-03,0.4207
3.42E-03,0.5000
4.08E-03,0.5398
4.86E-03,0.5793
5.80E-03,0.6179
8.24E-03,0.6915
9.83E-03,0.7257
1.17E-02,0.7580
1.40E-02,0.7881
1.98E-02,0.8413
2.36E-02,0.8643
2.81E-02,0.8849
3.34E-02,0.9032
4.71E-02,0.9332
5.59E-02,0.9452
6.63E-02,0.9554
7.85E-02,0.9641
1.10E-01,0.9772
1.29E-01,0.9821
1.52E-01,0.9861
1.78E-01,0.9893
2.43E-01,0.9938
2.82E-01,0.9953
3.26E-01,0.9965
3.75E-01,0.9974
4.29E-01,0.9981
4.88E-01,0.9987

MatrixKD_TSw_Pu

3.04E-01,0.0013
3.13E-01,0.0019
3.22E-01,0.0026
3.31E-01,0.0035
3.50E-01,0.0062
3.60E-01,0.0082
3.70E-01,0.0107
3.81E-01,0.0139
4.02E-01,0.0228
4.13E-01,0.0287
4.24E-01,0.0359
4.35E-01,0.0446
4.58E-01,0.0668
4.70E-01,0.0808
4.82E-01,0.0968
4.95E-01,0.1151
5.20E-01,0.1587
5.33E-01,0.1841
5.46E-01,0.2119
5.59E-01,0.2420
5.86E-01,0.3085
5.99E-01,0.3446
6.13E-01,0.3821
6.27E-01,0.4207
6.55E-01,0.5000

6.69E-01,0.5398
6.84E-01,0.5793
6.98E-01,0.6179
7.27E-01,0.6915
7.42E-01,0.7257
7.57E-01,0.7580
7.72E-01,0.7881
8.01E-01,0.8413
8.16E-01,0.8643
8.31E-01,0.8849
8.46E-01,0.9032
8.76E-01,0.9332
8.91E-01,0.9452
9.06E-01,0.9554
9.21E-01,0.9641
9.50E-01,0.9772
9.65E-01,0.9821
9.80E-01,0.9861
9.94E-01,0.9893
1.02E+00,0.9938
1.04E+00,0.9953
1.05E+00,0.9965
1.07E+00,0.9974
1.08E+00,0.9981
1.09E+00,0.9987

MatrixKD_ChnvPu

6.78E-01,0.0013
6.92E-01,0.0019
7.07E-01,0.0026
7.21E-01,0.0035
7.51E-01,0.0062
7.66E-01,0.0082
7.80E-01,0.0107
7.95E-01,0.0139
8.25E-01,0.0228
8.40E-01,0.0287
8.55E-01,0.0359
8.70E-01,0.0446
9.00E-01,0.0668
9.14E-01,0.0808
9.29E-01,0.0968
9.44E-01,0.1151
9.73E-01,0.1587
9.88E-01,0.1841
1.00E+00,0.2119
1.02E+00,0.2420
1.05E+00,0.3085
1.06E+00,0.3446
1.07E+00,0.3821
1.09E+00,0.4207
1.11E+00,0.5000
1.13E+00,0.5398
1.14E+00,0.5793
1.15E+00,0.6179
1.18E+00,0.6915

1.19E+00,0.7257
1.20E+00,0.7580
1.22E+00,0.7881
1.24E+00,0.8413
1.25E+00,0.8643
1.26E+00,0.8849
1.27E+00,0.9032
1.30E+00,0.9332
1.31E+00,0.9452
1.32E+00,0.9554
1.33E+00,0.9641
1.35E+00,0.9772
1.36E+00,0.9821
1.37E+00,0.9861
1.38E+00,0.9893
1.39E+00,0.9938
1.40E+00,0.9953
1.41E+00,0.9965
1.42E+00,0.9974
1.43E+00,0.9981
1.44E+00,0.9987

MatrixKD_CHnzPu

6.41E-01,0.0013
6.55E-01,0.0019
6.69E-01,0.0026
6.83E-01,0.0035
7.12E-01,0.0062
7.27E-01,0.0082
7.41E-01,0.0107
7.56E-01,0.0139
7.86E-01,0.0228
8.01E-01,0.0287
8.15E-01,0.0359
8.30E-01,0.0446
8.60E-01,0.0668
8.75E-01,0.0808
8.90E-01,0.0968
9.05E-01,0.1151
9.34E-01,0.1587
9.49E-01,0.1841
9.64E-01,0.2119
9.78E-01,0.2420
1.01E+00,0.3085
1.02E+00,0.3446
1.04E+00,0.3821
1.05E+00,0.4207
1.08E+00,0.5000
1.09E+00,0.5398
1.11E+00,0.5793
1.12E+00,0.6179
1.15E+00,0.6915
1.16E+00,0.7257
1.17E+00,0.7580
1.18E+00,0.7881
1.21E+00,0.8413

1.22E+00,0.8643
1.23E+00,0.8849
1.24E+00,0.9032
1.27E+00,0.9332
1.28E+00,0.9452
1.29E+00,0.9554
1.30E+00,0.9641
1.32E+00,0.9772
1.33E+00,0.9821
1.34E+00,0.9861
1.35E+00,0.9893
1.37E+00,0.9938
1.38E+00,0.9953
1.39E+00,0.9965
1.40E+00,0.9974
1.41E+00,0.9981
1.41E+00,0.9987

MatrixKD_PPw_Pu

5.66E-01,0.0013
5.79E-01,0.0019
5.93E-01,0.0026
6.07E-01,0.0035
6.34E-01,0.0062
6.48E-01,0.0082
6.62E-01,0.0107
6.77E-01,0.0139
7.05E-01,0.0228
7.20E-01,0.0287
7.35E-01,0.0359
7.49E-01,0.0446
7.79E-01,0.0668
7.94E-01,0.0808
8.09E-01,0.0968
8.23E-01,0.1151
8.53E-01,0.1587
8.68E-01,0.1841
8.83E-01,0.2119
8.98E-01,0.2420
9.28E-01,0.3085
9.42E-01,0.3446
9.57E-01,0.3821
9.72E-01,0.4207
1.00E+00,0.5000
1.02E+00,0.5398
1.03E+00,0.5793
1.04E+00,0.6179
1.07E+00,0.6915
1.09E+00,0.7257
1.10E+00,0.7580
1.11E+00,0.7881
1.14E+00,0.8413
1.15E+00,0.8643
1.16E+00,0.8849
1.18E+00,0.9032
1.20E+00,0.9332

1.21E+00,0.9452
1.23E+00,0.9554
1.24E+00,0.9641
1.26E+00,0.9772
1.27E+00,0.9821
1.28E+00,0.9861
1.29E+00,0.9893
1.32E+00,0.9938
1.33E+00,0.9953
1.34E+00,0.9965
1.35E+00,0.9974
1.36E+00,0.9981
1.37E+00,0.9987

MatrixKD_UCF_Pu

5.84E-01,0.0013
5.97E-01,0.0019
6.11E-01,0.0026
6.25E-01,0.0035
6.53E-01,0.0062
6.67E-01,0.0082
6.81E-01,0.0107
6.95E-01,0.0139
7.24E-01,0.0228
7.39E-01,0.0287
7.54E-01,0.0359
7.68E-01,0.0446
7.98E-01,0.0668
8.13E-01,0.0808
8.28E-01,0.0968
8.43E-01,0.1151
8.73E-01,0.1587
8.87E-01,0.1841
9.02E-01,0.2119
9.17E-01,0.2420
9.47E-01,0.3085
9.61E-01,0.3446
9.76E-01,0.3821
9.90E-01,0.4207
1.02E+00,0.5000
1.03E+00,0.5398
1.05E+00,0.5793
1.06E+00,0.6179
1.09E+00,0.6915
1.10E+00,0.7257
1.12E+00,0.7580
1.13E+00,0.7881
1.16E+00,0.8413
1.17E+00,0.8643
1.18E+00,0.8849
1.19E+00,0.9032
1.22E+00,0.9332
1.23E+00,0.9452
1.24E+00,0.9554
1.25E+00,0.9641
1.28E+00,0.9772

1.29E+00,0.9821
1.30E+00,0.9861
1.31E+00,0.9893
1.33E+00,0.9938
1.34E+00,0.9953
1.35E+00,0.9965
1.36E+00,0.9974
1.37E+00,0.9981
1.38E+00,0.9987

MatrixKD_BFw_Pu

2.97E-01,0.0013
3.06E-01,0.0019
3.15E-01,0.0026
3.24E-01,0.0035
3.43E-01,0.0062
3.52E-01,0.0082
3.62E-01,0.0107
3.72E-01,0.0139
3.93E-01,0.0228
4.04E-01,0.0287
4.15E-01,0.0359
4.26E-01,0.0446
4.49E-01,0.0668
4.61E-01,0.0808
4.73E-01,0.0968
4.85E-01,0.1151
5.09E-01,0.1587
5.22E-01,0.1841
5.35E-01,0.2119
5.48E-01,0.2420
5.74E-01,0.3085
5.88E-01,0.3446
6.01E-01,0.3821
6.15E-01,0.4207
6.43E-01,0.5000
6.57E-01,0.5398
6.71E-01,0.5793
6.86E-01,0.6179
7.15E-01,0.6915
7.29E-01,0.7257
7.44E-01,0.7580
7.59E-01,0.7881
7.88E-01,0.8413
8.03E-01,0.8643
8.18E-01,0.8849
8.33E-01,0.9032
8.63E-01,0.9332
8.78E-01,0.9452
8.92E-01,0.9554
9.07E-01,0.9641
9.37E-01,0.9772
9.52E-01,0.9821
9.66E-01,0.9861
9.81E-01,0.9893
1.01E+00,0.9938

1.02E+00,0.9953
1.04E+00,0.9965
1.05E+00,0.9974
1.07E+00,0.9981
1.08E+00,0.9987

MatrixKD_UFZ_Pu

2.90E-01,0.0013
2.99E-01,0.0019
3.07E-01,0.0026
3.16E-01,0.0035
3.35E-01,0.0062
3.44E-01,0.0082
3.54E-01,0.0107
3.64E-01,0.0139
3.84E-01,0.0228
3.95E-01,0.0287
4.06E-01,0.0359
4.16E-01,0.0446
4.39E-01,0.0668
4.50E-01,0.0808
4.62E-01,0.0968
4.74E-01,0.1151
4.98E-01,0.1587
5.11E-01,0.1841
5.23E-01,0.2119
5.36E-01,0.2420
5.62E-01,0.3085
5.75E-01,0.3446
5.89E-01,0.3821
6.02E-01,0.4207
6.30E-01,0.5000
6.44E-01,0.5398
6.58E-01,0.5793
6.72E-01,0.6179
7.01E-01,0.6915
7.15E-01,0.7257
7.30E-01,0.7580
7.44E-01,0.7881
7.74E-01,0.8413
7.88E-01,0.8643
8.03E-01,0.8849
8.18E-01,0.9032
8.48E-01,0.9332
8.63E-01,0.9452
8.77E-01,0.9554
8.92E-01,0.9641
9.22E-01,0.9772
9.37E-01,0.9821
9.51E-01,0.9861
9.66E-01,0.9893
9.95E-01,0.9938
1.01E+00,0.9953
1.02E+00,0.9965
1.04E+00,0.9974
1.05E+00,0.9981

1.07E+00,0.9987

MatrixKD_TSw_Th

1.49E+00,0.0013
1.50E+00,0.0019
1.51E+00,0.0026
1.52E+00,0.0035
1.54E+00,0.0062
1.54E+00,0.0082
1.55E+00,0.0107
1.56E+00,0.0139
1.58E+00,0.0228
1.58E+00,0.0287
1.59E+00,0.0359
1.59E+00,0.0446
1.61E+00,0.0668
1.61E+00,0.0808
1.62E+00,0.0968
1.62E+00,0.1151
1.63E+00,0.1587
1.63E+00,0.1841
1.64E+00,0.2119
1.64E+00,0.2420
1.65E+00,0.3085
1.65E+00,0.3446
1.65E+00,0.3821
1.65E+00,0.4207
1.66E+00,0.5000
1.66E+00,0.5398
1.66E+00,0.5793
1.66E+00,0.6179
1.67E+00,0.6915
1.67E+00,0.7257
1.67E+00,0.7580
1.67E+00,0.7881
1.68E+00,0.8413
1.68E+00,0.8643
1.68E+00,0.8849
1.68E+00,0.9032
1.68E+00,0.9332
1.68E+00,0.9452
1.68E+00,0.9554
1.68E+00,0.9641
1.68E+00,0.9772
1.68E+00,0.9821
1.69E+00,0.9861
1.69E+00,0.9893
1.69E+00,0.9938
1.69E+00,0.9953
1.69E+00,0.9965
1.69E+00,0.9974
1.69E+00,0.9981
1.69E+00,0.9987

MatrixKD_ChnvTh

1.62E+00,0.0013

1.63E+00,0.0019
1.63E+00,0.0026
1.63E+00,0.0035
1.64E+00,0.0062
1.64E+00,0.0082
1.65E+00,0.0107
1.65E+00,0.0139
1.65E+00,0.0228
1.66E+00,0.0287
1.66E+00,0.0359
1.66E+00,0.0446
1.67E+00,0.0668
1.67E+00,0.0808
1.67E+00,0.0968
1.67E+00,0.1151
1.67E+00,0.1587
1.67E+00,0.1841
1.68E+00,0.2119
1.68E+00,0.2420
1.68E+00,0.3085
1.68E+00,0.3446
1.68E+00,0.3821
1.68E+00,0.4207
1.68E+00,0.5000
1.68E+00,0.5398
1.68E+00,0.5793
1.69E+00,0.6179
1.69E+00,0.6915
1.69E+00,0.7257
1.69E+00,0.7580
1.69E+00,0.7881
1.69E+00,0.8413
1.69E+00,0.8643
1.69E+00,0.8849
1.69E+00,0.9032
1.69E+00,0.9332
1.69E+00,0.9452
1.69E+00,0.9554
1.69E+00,0.9641
1.69E+00,0.9772
1.69E+00,0.9821
1.69E+00,0.9861
1.69E+00,0.9893
1.69E+00,0.9938
1.69E+00,0.9953
1.69E+00,0.9965
1.69E+00,0.9974
1.69E+00,0.9981
1.69E+00,0.9987

MatrixKD_CHnzTh

1.61E+00,0.0013
1.62E+00,0.0019
1.62E+00,0.0026
1.63E+00,0.0035
1.64E+00,0.0062

1.64E+00,0.0082
1.64E+00,0.0107
1.64E+00,0.0139
1.65E+00,0.0228
1.65E+00,0.0287
1.66E+00,0.0359
1.66E+00,0.0446
1.66E+00,0.0668
1.66E+00,0.0808
1.67E+00,0.0968
1.67E+00,0.1151
1.67E+00,0.1587
1.67E+00,0.1841
1.67E+00,0.2119
1.67E+00,0.2420
1.68E+00,0.3085
1.68E+00,0.3446
1.68E+00,0.3821
1.68E+00,0.4207
1.68E+00,0.5000
1.68E+00,0.5398
1.68E+00,0.5793
1.68E+00,0.6179
1.69E+00,0.6915
1.69E+00,0.7257
1.69E+00,0.7580
1.69E+00,0.7881
1.69E+00,0.8413
1.69E+00,0.8643
1.69E+00,0.8849
1.69E+00,0.9032
1.69E+00,0.9332
1.69E+00,0.9452
1.69E+00,0.9554
1.69E+00,0.9641
1.69E+00,0.9772
1.69E+00,0.9821
1.69E+00,0.9861
1.69E+00,0.9893
1.69E+00,0.9938
1.69E+00,0.9953
1.69E+00,0.9965
1.69E+00,0.9974
1.69E+00,0.9981
1.69E+00,0.9987

MatrixKD_PPw_Th

1.60E+00,0.0013
1.60E+00,0.0019
1.61E+00,0.0026
1.61E+00,0.0035
1.62E+00,0.0062
1.63E+00,0.0082
1.63E+00,0.0107
1.63E+00,0.0139
1.64E+00,0.0228

1.64E+00,0.0287
1.65E+00,0.0359
1.65E+00,0.0446
1.66E+00,0.0668
1.66E+00,0.0808
1.66E+00,0.0968
1.66E+00,0.1151
1.67E+00,0.1587
1.67E+00,0.1841
1.67E+00,0.2119
1.67E+00,0.2420
1.67E+00,0.3085
1.67E+00,0.3446
1.68E+00,0.3821
1.68E+00,0.4207
1.68E+00,0.5000
1.68E+00,0.5398
1.68E+00,0.5793
1.68E+00,0.6179
1.68E+00,0.6915
1.68E+00,0.7257
1.68E+00,0.7580
1.69E+00,0.7881
1.69E+00,0.8413
1.69E+00,0.8643
1.69E+00,0.8849
1.69E+00,0.9032
1.69E+00,0.9332
1.69E+00,0.9452
1.69E+00,0.9554
1.69E+00,0.9641
1.69E+00,0.9772
1.69E+00,0.9821
1.69E+00,0.9861
1.69E+00,0.9893
1.69E+00,0.9938
1.69E+00,0.9953
1.69E+00,0.9965
1.69E+00,0.9974
1.69E+00,0.9981
1.69E+00,0.9987

MatrixKD_UCF_Th

1.60E+00,0.0013
1.61E+00,0.0019
1.61E+00,0.0026
1.62E+00,0.0035
1.63E+00,0.0062
1.63E+00,0.0082
1.63E+00,0.0107
1.64E+00,0.0139
1.64E+00,0.0228
1.65E+00,0.0287
1.65E+00,0.0359
1.65E+00,0.0446
1.66E+00,0.0668

1.66E+00,0.0808
1.66E+00,0.0968
1.66E+00,0.1151
1.67E+00,0.1587
1.67E+00,0.1841
1.67E+00,0.2119
1.67E+00,0.2420
1.67E+00,0.3085
1.68E+00,0.3446
1.68E+00,0.3821
1.68E+00,0.4207
1.68E+00,0.5000
1.68E+00,0.5398
1.68E+00,0.5793
1.68E+00,0.6179
1.68E+00,0.6915
1.68E+00,0.7257
1.69E+00,0.7580
1.69E+00,0.7881
1.69E+00,0.8413
1.69E+00,0.8643
1.69E+00,0.8849
1.69E+00,0.9032
1.69E+00,0.9332
1.69E+00,0.9452
1.69E+00,0.9554
1.69E+00,0.9641
1.69E+00,0.9772
1.69E+00,0.9821
1.69E+00,0.9861
1.69E+00,0.9893
1.69E+00,0.9938
1.69E+00,0.9953
1.69E+00,0.9965
1.69E+00,0.9974
1.69E+00,0.9981
1.69E+00,0.9987

MatrixKD_BFw_Th

1.49E+00,0.0013
1.50E+00,0.0019
1.51E+00,0.0026
1.52E+00,0.0035
1.54E+00,0.0062
1.54E+00,0.0082
1.55E+00,0.0107
1.56E+00,0.0139
1.57E+00,0.0228
1.58E+00,0.0287
1.59E+00,0.0359
1.59E+00,0.0446
1.60E+00,0.0668
1.61E+00,0.0808
1.61E+00,0.0968
1.62E+00,0.1151
1.63E+00,0.1587

1.63E+00,0.1841
1.64E+00,0.2119
1.64E+00,0.2420
1.65E+00,0.3085
1.65E+00,0.3446
1.65E+00,0.3821
1.65E+00,0.4207
1.66E+00,0.5000
1.66E+00,0.5398
1.66E+00,0.5793
1.66E+00,0.6179
1.67E+00,0.6915
1.67E+00,0.7257
1.67E+00,0.7580
1.67E+00,0.7881
1.67E+00,0.8413
1.68E+00,0.8643
1.68E+00,0.8849
1.68E+00,0.9032
1.68E+00,0.9332
1.68E+00,0.9452
1.68E+00,0.9554
1.68E+00,0.9641
1.68E+00,0.9772
1.68E+00,0.9821
1.69E+00,0.9861
1.69E+00,0.9893
1.69E+00,0.9938
1.69E+00,0.9953
1.69E+00,0.9965
1.69E+00,0.9974
1.69E+00,0.9981
1.69E+00,0.9987

MatrixKD_UFZ_Th

1.49E+00,0.0013
1.50E+00,0.0019
1.51E+00,0.0026
1.52E+00,0.0035
1.54E+00,0.0062
1.54E+00,0.0082
1.55E+00,0.0107
1.56E+00,0.0139
1.57E+00,0.0228
1.58E+00,0.0287
1.59E+00,0.0359
1.59E+00,0.0446
1.60E+00,0.0668
1.61E+00,0.0808
1.61E+00,0.0968
1.62E+00,0.1151
1.63E+00,0.1587
1.63E+00,0.1841
1.63E+00,0.2119
1.64E+00,0.2420
1.64E+00,0.3085

1.65E+00,0.3446
1.65E+00,0.3821
1.65E+00,0.4207
1.66E+00,0.5000
1.66E+00,0.5398
1.66E+00,0.5793
1.66E+00,0.6179
1.67E+00,0.6915
1.67E+00,0.7257
1.67E+00,0.7580
1.67E+00,0.7881
1.67E+00,0.8413
1.68E+00,0.8643
1.68E+00,0.8849
1.68E+00,0.9032
1.68E+00,0.9332
1.68E+00,0.9452
1.68E+00,0.9554
1.68E+00,0.9641
1.68E+00,0.9772
1.68E+00,0.9821
1.68E+00,0.9861
1.69E+00,0.9893
1.69E+00,0.9938
1.69E+00,0.9953
1.69E+00,0.9965
1.69E+00,0.9974
1.69E+00,0.9981
1.69E+00,0.9987

MatrixKD_TSw_Ra

9.44E-02,0.00
1.02E-01,0.02
1.09E-01,0.04
1.16E-01,0.06
1.22E-01,0.08
1.29E-01,0.10
1.36E-01,0.12
1.43E-01,0.14
1.50E-01,0.16
1.56E-01,0.18
1.63E-01,0.20
1.69E-01,0.22
1.76E-01,0.24
1.82E-01,0.26
1.88E-01,0.28
1.95E-01,0.30
2.01E-01,0.32
2.07E-01,0.34
2.13E-01,0.36
2.19E-01,0.38
2.25E-01,0.40
2.31E-01,0.42
2.37E-01,0.44
2.43E-01,0.46
2.49E-01,0.48

2.55E-01,0.50
2.61E-01,0.52
2.66E-01,0.54
2.72E-01,0.56
2.78E-01,0.58
2.83E-01,0.60
2.89E-01,0.62
2.94E-01,0.64
3.00E-01,0.66
3.05E-01,0.68
3.10E-01,0.70
3.16E-01,0.72
3.21E-01,0.74
3.26E-01,0.76
3.31E-01,0.78
3.37E-01,0.80
3.42E-01,0.82
3.47E-01,0.84
3.52E-01,0.86
3.57E-01,0.88
3.62E-01,0.90
3.67E-01,0.92
3.72E-01,0.94
3.76E-01,0.96
3.81E-01,0.98
3.86E-01,1.00

MatrixKD_ChnvRa

4.86E-02,0.00
4.95E-02,0.02
5.05E-02,0.04
5.14E-02,0.06
5.23E-02,0.08
5.33E-02,0.10
5.42E-02,0.12
5.51E-02,0.14
5.61E-02,0.16
5.70E-02,0.18
5.79E-02,0.20
5.89E-02,0.22
5.98E-02,0.24
6.07E-02,0.26
6.17E-02,0.28
6.26E-02,0.30
6.35E-02,0.32
6.45E-02,0.34
6.54E-02,0.36
6.63E-02,0.38
6.72E-02,0.40
6.81E-02,0.42
6.91E-02,0.44
7.00E-02,0.46
7.09E-02,0.48
7.18E-02,0.50
7.27E-02,0.52
7.37E-02,0.54

7.46E-02,0.56
7.55E-02,0.58
7.64E-02,0.60
7.73E-02,0.62
7.82E-02,0.64
7.91E-02,0.66
8.00E-02,0.68
8.09E-02,0.70
8.18E-02,0.72
8.28E-02,0.74
8.37E-02,0.76
8.46E-02,0.78
8.55E-02,0.80
8.64E-02,0.82
8.73E-02,0.84
8.82E-02,0.86
8.91E-02,0.88
9.00E-02,0.90
9.09E-02,0.92
9.17E-02,0.94
9.26E-02,0.96
9.35E-02,0.98
9.44E-02,1.00

MatrixKD_CHnzRa

6.29E-01,0.00
6.60E-01,0.02
6.89E-01,0.04
7.16E-01,0.06
7.42E-01,0.08
7.67E-01,0.10
7.90E-01,0.12
8.12E-01,0.14
8.34E-01,0.16
8.54E-01,0.18
8.73E-01,0.20
8.91E-01,0.22
9.09E-01,0.24
9.26E-01,0.26
9.42E-01,0.28
9.57E-01,0.30
9.72E-01,0.32
9.86E-01,0.34
1.00E+00,0.36
1.01E+00,0.38
1.03E+00,0.40
1.04E+00,0.42
1.05E+00,0.44
1.06E+00,0.46
1.07E+00,0.48
1.08E+00,0.50
1.09E+00,0.52
1.10E+00,0.54
1.11E+00,0.56
1.12E+00,0.58
1.13E+00,0.60

1.14E+00,0.62
1.15E+00,0.64
1.16E+00,0.66
1.16E+00,0.68
1.17E+00,0.70
1.18E+00,0.72
1.19E+00,0.74
1.19E+00,0.76
1.20E+00,0.78
1.21E+00,0.80
1.21E+00,0.82
1.22E+00,0.84
1.23E+00,0.86
1.23E+00,0.88
1.24E+00,0.90
1.24E+00,0.92
1.25E+00,0.94
1.26E+00,0.96
1.26E+00,0.98
1.27E+00,1.00

MatrixKD_PPw_Ra

9.44E-02,0.00
1.02E-01,0.02
1.09E-01,0.04
1.16E-01,0.06
1.22E-01,0.08
1.29E-01,0.10
1.36E-01,0.12
1.43E-01,0.14
1.50E-01,0.16
1.56E-01,0.18
1.63E-01,0.20
1.69E-01,0.22
1.76E-01,0.24
1.82E-01,0.26
1.88E-01,0.28
1.95E-01,0.30
2.01E-01,0.32
2.07E-01,0.34
2.13E-01,0.36
2.19E-01,0.38
2.25E-01,0.40
2.31E-01,0.42
2.37E-01,0.44
2.43E-01,0.46
2.49E-01,0.48
2.55E-01,0.50
2.61E-01,0.52
2.66E-01,0.54
2.72E-01,0.56
2.78E-01,0.58
2.83E-01,0.60
2.89E-01,0.62
2.94E-01,0.64
3.00E-01,0.66

3.05E-01,0.68
3.10E-01,0.70
3.16E-01,0.72
3.21E-01,0.74
3.26E-01,0.76
3.31E-01,0.78
3.37E-01,0.80
3.42E-01,0.82
3.47E-01,0.84
3.52E-01,0.86
3.57E-01,0.88
3.62E-01,0.90
3.67E-01,0.92
3.72E-01,0.94
3.76E-01,0.96
3.81E-01,0.98
3.86E-01,1.00

MatrixKD_UCF_Ra

9.44E-02,0.00
1.02E-01,0.02
1.09E-01,0.04
1.16E-01,0.06
1.22E-01,0.08
1.29E-01,0.10
1.36E-01,0.12
1.43E-01,0.14
1.50E-01,0.16
1.56E-01,0.18
1.63E-01,0.20
1.69E-01,0.22
1.76E-01,0.24
1.82E-01,0.26
1.88E-01,0.28
1.95E-01,0.30
2.01E-01,0.32
2.07E-01,0.34
2.13E-01,0.36
2.19E-01,0.38
2.25E-01,0.40
2.31E-01,0.42
2.37E-01,0.44
2.43E-01,0.46
2.49E-01,0.48
2.55E-01,0.50
2.61E-01,0.52
2.66E-01,0.54
2.72E-01,0.56
2.78E-01,0.58
2.83E-01,0.60
2.89E-01,0.62
2.94E-01,0.64
3.00E-01,0.66
3.05E-01,0.68
3.10E-01,0.70
3.16E-01,0.72

3.21E-01,0.74
3.26E-01,0.76
3.31E-01,0.78
3.37E-01,0.80
3.42E-01,0.82
3.47E-01,0.84
3.52E-01,0.86
3.57E-01,0.88
3.62E-01,0.90
3.67E-01,0.92
3.72E-01,0.94
3.76E-01,0.96
3.81E-01,0.98
3.86E-01,1.00

MatrixKD_BFw_Ra

9.44E-02,0.00
1.02E-01,0.02
1.09E-01,0.04
1.16E-01,0.06
1.22E-01,0.08
1.29E-01,0.10
1.36E-01,0.12
1.43E-01,0.14
1.50E-01,0.16
1.56E-01,0.18
1.63E-01,0.20
1.69E-01,0.22
1.76E-01,0.24
1.82E-01,0.26
1.88E-01,0.28
1.95E-01,0.30
2.01E-01,0.32
2.07E-01,0.34
2.13E-01,0.36
2.19E-01,0.38
2.25E-01,0.40
2.31E-01,0.42
2.37E-01,0.44
2.43E-01,0.46
2.49E-01,0.48
2.55E-01,0.50
2.61E-01,0.52
2.66E-01,0.54
2.72E-01,0.56
2.78E-01,0.58
2.83E-01,0.60
2.89E-01,0.62
2.94E-01,0.64
3.00E-01,0.66
3.05E-01,0.68
3.10E-01,0.70
3.16E-01,0.72
3.21E-01,0.74
3.26E-01,0.76
3.31E-01,0.78

3.37E-01,0.80
3.42E-01,0.82
3.47E-01,0.84
3.52E-01,0.86
3.57E-01,0.88
3.62E-01,0.90
3.67E-01,0.92
3.72E-01,0.94
3.76E-01,0.96
3.81E-01,0.98
3.86E-01,1.00

MatrixKD_UFZ_Ra

9.44E-02,0.00
1.02E-01,0.02
1.09E-01,0.04
1.16E-01,0.06
1.22E-01,0.08
1.29E-01,0.10
1.36E-01,0.12
1.43E-01,0.14
1.50E-01,0.16
1.56E-01,0.18
1.63E-01,0.20
1.69E-01,0.22
1.76E-01,0.24
1.82E-01,0.26
1.88E-01,0.28
1.95E-01,0.30
2.01E-01,0.32
2.07E-01,0.34
2.13E-01,0.36
2.19E-01,0.38
2.25E-01,0.40
2.31E-01,0.42
2.37E-01,0.44
2.43E-01,0.46
2.49E-01,0.48
2.55E-01,0.50
2.61E-01,0.52
2.66E-01,0.54
2.72E-01,0.56
2.78E-01,0.58
2.83E-01,0.60
2.89E-01,0.62
2.94E-01,0.64
3.00E-01,0.66
3.05E-01,0.68
3.10E-01,0.70
3.16E-01,0.72
3.21E-01,0.74
3.26E-01,0.76
3.31E-01,0.78
3.37E-01,0.80
3.42E-01,0.82
3.47E-01,0.84

3.52E-01,0.86
3.57E-01,0.88
3.62E-01,0.90
3.67E-01,0.92
3.72E-01,0.94
3.76E-01,0.96
3.81E-01,0.98
3.86E-01,1.00

MatrixKD_TSw_Pb

9.44E-02,0.00
1.02E-01,0.02
1.09E-01,0.04
1.16E-01,0.06
1.22E-01,0.08
1.29E-01,0.10
1.36E-01,0.12
1.43E-01,0.14
1.50E-01,0.16
1.56E-01,0.18
1.63E-01,0.20
1.69E-01,0.22
1.76E-01,0.24
1.82E-01,0.26
1.88E-01,0.28
1.95E-01,0.30
2.01E-01,0.32
2.07E-01,0.34
2.13E-01,0.36
2.19E-01,0.38
2.25E-01,0.40
2.31E-01,0.42
2.37E-01,0.44
2.43E-01,0.46
2.49E-01,0.48
2.55E-01,0.50
2.61E-01,0.52
2.66E-01,0.54
2.72E-01,0.56
2.78E-01,0.58
2.83E-01,0.60
2.89E-01,0.62
2.94E-01,0.64
3.00E-01,0.66
3.05E-01,0.68
3.10E-01,0.70
3.16E-01,0.72
3.21E-01,0.74
3.26E-01,0.76
3.31E-01,0.78
3.37E-01,0.80
3.42E-01,0.82
3.47E-01,0.84
3.52E-01,0.86
3.57E-01,0.88
3.62E-01,0.90

3.67E-01,0.92
3.72E-01,0.94
3.76E-01,0.96
3.81E-01,0.98
3.86E-01,1.00

MatrixKD_ChnvPb

9.44E-02,0.00
1.02E-01,0.02
1.09E-01,0.04
1.16E-01,0.06
1.22E-01,0.08
1.29E-01,0.10
1.36E-01,0.12
1.43E-01,0.14
1.50E-01,0.16
1.56E-01,0.18
1.63E-01,0.20
1.69E-01,0.22
1.76E-01,0.24
1.82E-01,0.26
1.88E-01,0.28
1.95E-01,0.30
2.01E-01,0.32
2.07E-01,0.34
2.13E-01,0.36
2.19E-01,0.38
2.25E-01,0.40
2.31E-01,0.42
2.37E-01,0.44
2.43E-01,0.46
2.49E-01,0.48
2.55E-01,0.50
2.61E-01,0.52
2.66E-01,0.54
2.72E-01,0.56
2.78E-01,0.58
2.83E-01,0.60
2.89E-01,0.62
2.94E-01,0.64
3.00E-01,0.66
3.05E-01,0.68
3.10E-01,0.70
3.16E-01,0.72
3.21E-01,0.74
3.26E-01,0.76
3.31E-01,0.78
3.37E-01,0.80
3.42E-01,0.82
3.47E-01,0.84
3.52E-01,0.86
3.57E-01,0.88
3.62E-01,0.90
3.67E-01,0.92
3.72E-01,0.94
3.76E-01,0.96

3.81E-01,0.98
3.86E-01,1.00

MatrixKD_CHnzPb

9.44E-02,0.00
1.02E-01,0.02
1.09E-01,0.04
1.16E-01,0.06
1.22E-01,0.08
1.29E-01,0.10
1.36E-01,0.12
1.43E-01,0.14
1.50E-01,0.16
1.56E-01,0.18
1.63E-01,0.20
1.69E-01,0.22
1.76E-01,0.24
1.82E-01,0.26
1.88E-01,0.28
1.95E-01,0.30
2.01E-01,0.32
2.07E-01,0.34
2.13E-01,0.36
2.19E-01,0.38
2.25E-01,0.40
2.31E-01,0.42
2.37E-01,0.44
2.43E-01,0.46
2.49E-01,0.48
2.55E-01,0.50
2.61E-01,0.52
2.66E-01,0.54
2.72E-01,0.56
2.78E-01,0.58
2.83E-01,0.60
2.89E-01,0.62
2.94E-01,0.64
3.00E-01,0.66
3.05E-01,0.68
3.10E-01,0.70
3.16E-01,0.72
3.21E-01,0.74
3.26E-01,0.76
3.31E-01,0.78
3.37E-01,0.80
3.42E-01,0.82
3.47E-01,0.84
3.52E-01,0.86
3.57E-01,0.88
3.62E-01,0.90
3.67E-01,0.92
3.72E-01,0.94
3.76E-01,0.96
3.81E-01,0.98
3.86E-01,1.00

MatrixKD_PPw_Pb

9.44E-02,0.00
1.02E-01,0.02
1.09E-01,0.04
1.16E-01,0.06
1.22E-01,0.08
1.29E-01,0.10
1.36E-01,0.12
1.43E-01,0.14
1.50E-01,0.16
1.56E-01,0.18
1.63E-01,0.20
1.69E-01,0.22
1.76E-01,0.24
1.82E-01,0.26
1.88E-01,0.28
1.95E-01,0.30
2.01E-01,0.32
2.07E-01,0.34
2.13E-01,0.36
2.19E-01,0.38
2.25E-01,0.40
2.31E-01,0.42
2.37E-01,0.44
2.43E-01,0.46
2.49E-01,0.48
2.55E-01,0.50
2.61E-01,0.52
2.66E-01,0.54
2.72E-01,0.56
2.78E-01,0.58
2.83E-01,0.60
2.89E-01,0.62
2.94E-01,0.64
3.00E-01,0.66
3.05E-01,0.68
3.10E-01,0.70
3.16E-01,0.72
3.21E-01,0.74
3.26E-01,0.76
3.31E-01,0.78
3.37E-01,0.80
3.42E-01,0.82
3.47E-01,0.84
3.52E-01,0.86
3.57E-01,0.88
3.62E-01,0.90
3.67E-01,0.92
3.72E-01,0.94
3.76E-01,0.96
3.81E-01,0.98
3.86E-01,1.00

MatrixKD_UCF_Pb

9.44E-02,0.00
1.02E-01,0.02

1.09E-01,0.04
1.16E-01,0.06
1.22E-01,0.08
1.29E-01,0.10
1.36E-01,0.12
1.43E-01,0.14
1.50E-01,0.16
1.56E-01,0.18
1.63E-01,0.20
1.69E-01,0.22
1.76E-01,0.24
1.82E-01,0.26
1.88E-01,0.28
1.95E-01,0.30
2.01E-01,0.32
2.07E-01,0.34
2.13E-01,0.36
2.19E-01,0.38
2.25E-01,0.40
2.31E-01,0.42
2.37E-01,0.44
2.43E-01,0.46
2.49E-01,0.48
2.55E-01,0.50
2.61E-01,0.52
2.66E-01,0.54
2.72E-01,0.56
2.78E-01,0.58
2.83E-01,0.60
2.89E-01,0.62
2.94E-01,0.64
3.00E-01,0.66
3.05E-01,0.68
3.10E-01,0.70
3.16E-01,0.72
3.21E-01,0.74
3.26E-01,0.76
3.31E-01,0.78
3.37E-01,0.80
3.42E-01,0.82
3.47E-01,0.84
3.52E-01,0.86
3.57E-01,0.88
3.62E-01,0.90
3.67E-01,0.92
3.72E-01,0.94
3.76E-01,0.96
3.81E-01,0.98
3.86E-01,1.00

MatrixKD_BFw_Pb

9.44E-02,0.00
1.02E-01,0.02
1.09E-01,0.04
1.16E-01,0.06
1.22E-01,0.08

1.29E-01,0.10
1.36E-01,0.12
1.43E-01,0.14
1.50E-01,0.16
1.56E-01,0.18
1.63E-01,0.20
1.69E-01,0.22
1.76E-01,0.24
1.82E-01,0.26
1.88E-01,0.28
1.95E-01,0.30
2.01E-01,0.32
2.07E-01,0.34
2.13E-01,0.36
2.19E-01,0.38
2.25E-01,0.40
2.31E-01,0.42
2.37E-01,0.44
2.43E-01,0.46
2.49E-01,0.48
2.55E-01,0.50
2.61E-01,0.52
2.66E-01,0.54
2.72E-01,0.56
2.78E-01,0.58
2.83E-01,0.60
2.89E-01,0.62
2.94E-01,0.64
3.00E-01,0.66
3.05E-01,0.68
3.10E-01,0.70
3.16E-01,0.72
3.21E-01,0.74
3.26E-01,0.76
3.31E-01,0.78
3.37E-01,0.80
3.42E-01,0.82
3.47E-01,0.84
3.52E-01,0.86
3.57E-01,0.88
3.62E-01,0.90
3.67E-01,0.92
3.72E-01,0.94
3.76E-01,0.96
3.81E-01,0.98
3.86E-01,1.00

MatrixKD_UFZ_Pb

9.44E-02,0.00
1.02E-01,0.02
1.09E-01,0.04
1.16E-01,0.06
1.22E-01,0.08
1.29E-01,0.10
1.36E-01,0.12
1.43E-01,0.14

1.50E-01,0.16
1.56E-01,0.18
1.63E-01,0.20
1.69E-01,0.22
1.76E-01,0.24
1.82E-01,0.26
1.88E-01,0.28
1.95E-01,0.30
2.01E-01,0.32
2.07E-01,0.34
2.13E-01,0.36
2.19E-01,0.38
2.25E-01,0.40
2.31E-01,0.42
2.37E-01,0.44
2.43E-01,0.46
2.49E-01,0.48
2.55E-01,0.50
2.61E-01,0.52
2.66E-01,0.54
2.72E-01,0.56
2.78E-01,0.58
2.83E-01,0.60
2.89E-01,0.62
2.94E-01,0.64
3.00E-01,0.66
3.05E-01,0.68
3.10E-01,0.70
3.16E-01,0.72
3.21E-01,0.74
3.26E-01,0.76
3.31E-01,0.78
3.37E-01,0.80
3.42E-01,0.82
3.47E-01,0.84
3.52E-01,0.86
3.57E-01,0.88
3.62E-01,0.90
3.67E-01,0.92
3.72E-01,0.94
3.76E-01,0.96
3.81E-01,0.98
3.86E-01,1.00

MatrixKD_TSw_Cs

1.98E-02,0.00
3.87E-02,0.02
5.72E-02,0.04
7.53E-02,0.06
9.30E-02,0.08
1.10E-01,0.10
1.27E-01,0.12
1.44E-01,0.14
1.60E-01,0.16
1.76E-01,0.18
1.92E-01,0.20

2.07E-01,0.22
2.22E-01,0.24
2.36E-01,0.26
2.51E-01,0.28
2.65E-01,0.30
2.79E-01,0.32
2.92E-01,0.34
3.06E-01,0.36
3.19E-01,0.38
3.31E-01,0.40
3.44E-01,0.42
3.56E-01,0.44
3.68E-01,0.46
3.80E-01,0.48
3.92E-01,0.50
4.04E-01,0.52
4.15E-01,0.54
4.26E-01,0.56
4.37E-01,0.58
4.47E-01,0.60
4.58E-01,0.62
4.68E-01,0.64
4.79E-01,0.66
4.89E-01,0.68
4.98E-01,0.70
5.08E-01,0.72
5.18E-01,0.74
5.27E-01,0.76
5.36E-01,0.78
5.45E-01,0.80
5.54E-01,0.82
5.63E-01,0.84
5.72E-01,0.86
5.80E-01,0.88
5.89E-01,0.90
5.97E-01,0.92
6.05E-01,0.94
6.13E-01,0.96
6.21E-01,0.98
6.29E-01,1.00

MatrixKD_ChnvCs

9.94E-03,0.00
1.17E-02,0.02
1.35E-02,0.04
1.53E-02,0.06
1.70E-02,0.08
1.88E-02,0.10
2.05E-02,0.12
2.23E-02,0.14
2.41E-02,0.16
2.58E-02,0.18
2.75E-02,0.20
2.93E-02,0.22
3.10E-02,0.24
3.28E-02,0.26

3.45E-02,0.28
3.62E-02,0.30
3.79E-02,0.32
3.97E-02,0.34
4.14E-02,0.36
4.31E-02,0.38
4.48E-02,0.40
4.65E-02,0.42
4.82E-02,0.44
4.99E-02,0.46
5.16E-02,0.48
5.33E-02,0.50
5.50E-02,0.52
5.66E-02,0.54
5.83E-02,0.56
6.00E-02,0.58
6.17E-02,0.60
6.33E-02,0.62
6.50E-02,0.64
6.67E-02,0.66
6.83E-02,0.68
7.00E-02,0.70
7.16E-02,0.72
7.33E-02,0.74
7.49E-02,0.76
7.66E-02,0.78
7.82E-02,0.80
7.99E-02,0.82
8.15E-02,0.84
8.31E-02,0.86
8.47E-02,0.88
8.64E-02,0.90
8.80E-02,0.92
8.96E-02,0.94
9.12E-02,0.96
9.28E-02,0.98
9.44E-02,1.00

MatrixKD_CHnzCs

3.86E-01,0.00
4.38E-01,0.02
4.85E-01,0.04
5.29E-01,0.06
5.71E-01,0.08
6.09E-01,0.10
6.45E-01,0.12
6.78E-01,0.14
7.09E-01,0.16
7.39E-01,0.18
7.67E-01,0.20
7.93E-01,0.22
8.18E-01,0.24
8.41E-01,0.26
8.63E-01,0.28
8.85E-01,0.30
9.05E-01,0.32

9.24E-01,0.34
9.42E-01,0.36
9.59E-01,0.38
9.76E-01,0.40
9.92E-01,0.42
1.01E+00,0.44
1.02E+00,0.46
1.04E+00,0.48
1.05E+00,0.50
1.06E+00,0.52
1.07E+00,0.54
1.09E+00,0.56
1.10E+00,0.58
1.11E+00,0.60
1.12E+00,0.62
1.13E+00,0.64
1.14E+00,0.66
1.15E+00,0.68
1.16E+00,0.70
1.17E+00,0.72
1.17E+00,0.74
1.18E+00,0.76
1.19E+00,0.78
1.20E+00,0.80
1.21E+00,0.82
1.21E+00,0.84
1.22E+00,0.86
1.23E+00,0.88
1.23E+00,0.90
1.24E+00,0.92
1.25E+00,0.94
1.25E+00,0.96
1.26E+00,0.98
1.27E+00,1.00

MatrixKD_PPw_Cs

1.98E-02,0.00
3.87E-02,0.02
5.72E-02,0.04
7.53E-02,0.06
9.30E-02,0.08
1.10E-01,0.10
1.27E-01,0.12
1.44E-01,0.14
1.60E-01,0.16
1.76E-01,0.18
1.92E-01,0.20
2.07E-01,0.22
2.22E-01,0.24
2.36E-01,0.26
2.51E-01,0.28
2.65E-01,0.30
2.79E-01,0.32
2.92E-01,0.34
3.06E-01,0.36
3.19E-01,0.38

3.31E-01,0.40
3.44E-01,0.42
3.56E-01,0.44
3.68E-01,0.46
3.80E-01,0.48
3.92E-01,0.50
4.04E-01,0.52
4.15E-01,0.54
4.26E-01,0.56
4.37E-01,0.58
4.47E-01,0.60
4.58E-01,0.62
4.68E-01,0.64
4.79E-01,0.66
4.89E-01,0.68
4.98E-01,0.70
5.08E-01,0.72
5.18E-01,0.74
5.27E-01,0.76
5.36E-01,0.78
5.45E-01,0.80
5.54E-01,0.82
5.63E-01,0.84
5.72E-01,0.86
5.80E-01,0.88
5.89E-01,0.90
5.97E-01,0.92
6.05E-01,0.94
6.13E-01,0.96
6.21E-01,0.98
6.29E-01,1.00

MatrixKD_UCF_Cs

1.98E-02,0.00
3.87E-02,0.02
5.72E-02,0.04
7.53E-02,0.06
9.30E-02,0.08
1.10E-01,0.10
1.27E-01,0.12
1.44E-01,0.14
1.60E-01,0.16
1.76E-01,0.18
1.92E-01,0.20
2.07E-01,0.22
2.22E-01,0.24
2.36E-01,0.26
2.51E-01,0.28
2.65E-01,0.30
2.79E-01,0.32
2.92E-01,0.34
3.06E-01,0.36
3.19E-01,0.38
3.31E-01,0.40
3.44E-01,0.42
3.56E-01,0.44

3.68E-01,0.46
3.80E-01,0.48
3.92E-01,0.50
4.04E-01,0.52
4.15E-01,0.54
4.26E-01,0.56
4.37E-01,0.58
4.47E-01,0.60
4.58E-01,0.62
4.68E-01,0.64
4.79E-01,0.66
4.89E-01,0.68
4.98E-01,0.70
5.08E-01,0.72
5.18E-01,0.74
5.27E-01,0.76
5.36E-01,0.78
5.45E-01,0.80
5.54E-01,0.82
5.63E-01,0.84
5.72E-01,0.86
5.80E-01,0.88
5.89E-01,0.90
5.97E-01,0.92
6.05E-01,0.94
6.13E-01,0.96
6.21E-01,0.98
6.29E-01,1.00

MatrixKD_BFw_Cs

1.98E-02,0.00
3.87E-02,0.02
5.72E-02,0.04
7.53E-02,0.06
9.30E-02,0.08
1.10E-01,0.10
1.27E-01,0.12
1.44E-01,0.14
1.60E-01,0.16
1.76E-01,0.18
1.92E-01,0.20
2.07E-01,0.22
2.22E-01,0.24
2.36E-01,0.26
2.51E-01,0.28
2.65E-01,0.30
2.79E-01,0.32
2.92E-01,0.34
3.06E-01,0.36
3.19E-01,0.38
3.31E-01,0.40
3.44E-01,0.42
3.56E-01,0.44
3.68E-01,0.46
3.80E-01,0.48
3.92E-01,0.50

4.04E-01,0.52
4.15E-01,0.54
4.26E-01,0.56
4.37E-01,0.58
4.47E-01,0.60
4.58E-01,0.62
4.68E-01,0.64
4.79E-01,0.66
4.89E-01,0.68
4.98E-01,0.70
5.08E-01,0.72
5.18E-01,0.74
5.27E-01,0.76
5.36E-01,0.78
5.45E-01,0.80
5.54E-01,0.82
5.63E-01,0.84
5.72E-01,0.86
5.80E-01,0.88
5.89E-01,0.90
5.97E-01,0.92
6.05E-01,0.94
6.13E-01,0.96
6.21E-01,0.98
6.29E-01,1.00

MatrixKD_UFZ_Cs

1.98E-02,0.00
3.87E-02,0.02
5.72E-02,0.04
7.53E-02,0.06
9.30E-02,0.08
1.10E-01,0.10
1.27E-01,0.12
1.44E-01,0.14
1.60E-01,0.16
1.76E-01,0.18
1.92E-01,0.20
2.07E-01,0.22
2.22E-01,0.24
2.36E-01,0.26
2.51E-01,0.28
2.65E-01,0.30
2.79E-01,0.32
2.92E-01,0.34
3.06E-01,0.36
3.19E-01,0.38
3.31E-01,0.40
3.44E-01,0.42
3.56E-01,0.44
3.68E-01,0.46
3.80E-01,0.48
3.92E-01,0.50
4.04E-01,0.52
4.15E-01,0.54
4.26E-01,0.56

4.37E-01,0.58
4.47E-01,0.60
4.58E-01,0.62
4.68E-01,0.64
4.79E-01,0.66
4.89E-01,0.68
4.98E-01,0.70
5.08E-01,0.72
5.18E-01,0.74
5.27E-01,0.76
5.36E-01,0.78
5.45E-01,0.80
5.54E-01,0.82
5.63E-01,0.84
5.72E-01,0.86
5.80E-01,0.88
5.89E-01,0.90
5.97E-01,0.92
6.05E-01,0.94
6.13E-01,0.96
6.21E-01,0.98
6.29E-01,1.00

MatrixKD_TSw_Ni

5.06E-06,0.00
9.95E-03,0.02
1.98E-02,0.04
2.95E-02,0.06
3.91E-02,0.08
4.86E-02,0.10
5.80E-02,0.12
6.72E-02,0.14
7.64E-02,0.16
8.55E-02,0.18
9.44E-02,0.20
1.03E-01,0.22
1.12E-01,0.24
1.21E-01,0.26
1.29E-01,0.28
1.38E-01,0.30
1.46E-01,0.32
1.55E-01,0.34
1.63E-01,0.36
1.71E-01,0.38
1.79E-01,0.40
1.87E-01,0.42
1.95E-01,0.44
2.03E-01,0.46
2.10E-01,0.48
2.18E-01,0.50
2.25E-01,0.52
2.33E-01,0.54
2.40E-01,0.56
2.48E-01,0.58
2.55E-01,0.60
2.62E-01,0.62

2.69E-01,0.64
2.76E-01,0.66
2.83E-01,0.68
2.90E-01,0.70
2.97E-01,0.72
3.04E-01,0.74
3.10E-01,0.76
3.17E-01,0.78
3.24E-01,0.80
3.30E-01,0.82
3.37E-01,0.84
3.43E-01,0.86
3.49E-01,0.88
3.56E-01,0.90
3.62E-01,0.92
3.68E-01,0.94
3.74E-01,0.96
3.80E-01,0.98
3.86E-01,1.00

MatrixKD_ChvNi

1.06E-06,0.00
2.00E-03,0.02
3.99E-03,0.04
5.98E-03,0.06
7.96E-03,0.08
9.94E-03,0.10
1.19E-02,0.12
1.39E-02,0.14
1.59E-02,0.16
1.78E-02,0.18
1.98E-02,0.20
2.17E-02,0.22
2.37E-02,0.24
2.56E-02,0.26
2.75E-02,0.28
2.95E-02,0.30
3.14E-02,0.32
3.33E-02,0.34
3.53E-02,0.36
3.72E-02,0.38
3.91E-02,0.40
4.10E-02,0.42
4.29E-02,0.44
4.48E-02,0.46
4.67E-02,0.48
4.86E-02,0.50
5.05E-02,0.52
5.23E-02,0.54
5.42E-02,0.56
5.61E-02,0.58
5.79E-02,0.60
5.98E-02,0.62
6.17E-02,0.64
6.35E-02,0.66
6.54E-02,0.68

6.72E-02,0.70
6.91E-02,0.72
7.09E-02,0.74
7.27E-02,0.76
7.46E-02,0.78
7.64E-02,0.80
7.82E-02,0.82
8.00E-02,0.84
8.18E-02,0.86
8.37E-02,0.88
8.55E-02,0.90
8.73E-02,0.92
8.91E-02,0.94
9.09E-02,0.96
9.26E-02,0.98
9.44E-02,1.00

MatrixKD_CHnzNi

5.06E-06,0.00
9.95E-03,0.02
1.98E-02,0.04
2.95E-02,0.06
3.91E-02,0.08
4.86E-02,0.10
5.80E-02,0.12
6.72E-02,0.14
7.64E-02,0.16
8.55E-02,0.18
9.44E-02,0.20
1.03E-01,0.22
1.12E-01,0.24
1.21E-01,0.26
1.29E-01,0.28
1.38E-01,0.30
1.46E-01,0.32
1.55E-01,0.34
1.63E-01,0.36
1.71E-01,0.38
1.79E-01,0.40
1.87E-01,0.42
1.95E-01,0.44
2.03E-01,0.46
2.10E-01,0.48
2.18E-01,0.50
2.25E-01,0.52
2.33E-01,0.54
2.40E-01,0.56
2.48E-01,0.58
2.55E-01,0.60
2.62E-01,0.62
2.69E-01,0.64
2.76E-01,0.66
2.83E-01,0.68
2.90E-01,0.70
2.97E-01,0.72
3.04E-01,0.74

3.10E-01,0.76
3.17E-01,0.78
3.24E-01,0.80
3.30E-01,0.82
3.37E-01,0.84
3.43E-01,0.86
3.49E-01,0.88
3.56E-01,0.90
3.62E-01,0.92
3.68E-01,0.94
3.74E-01,0.96
3.80E-01,0.98
3.86E-01,1.00

MatrixKD_PPw_Ni

5.06E-06,0.00
9.95E-03,0.02
1.98E-02,0.04
2.95E-02,0.06
3.91E-02,0.08
4.86E-02,0.10
5.80E-02,0.12
6.72E-02,0.14
7.64E-02,0.16
8.55E-02,0.18
9.44E-02,0.20
1.03E-01,0.22
1.12E-01,0.24
1.21E-01,0.26
1.29E-01,0.28
1.38E-01,0.30
1.46E-01,0.32
1.55E-01,0.34
1.63E-01,0.36
1.71E-01,0.38
1.79E-01,0.40
1.87E-01,0.42
1.95E-01,0.44
2.03E-01,0.46
2.10E-01,0.48
2.18E-01,0.50
2.25E-01,0.52
2.33E-01,0.54
2.40E-01,0.56
2.48E-01,0.58
2.55E-01,0.60
2.62E-01,0.62
2.69E-01,0.64
2.76E-01,0.66
2.83E-01,0.68
2.90E-01,0.70
2.97E-01,0.72
3.04E-01,0.74
3.10E-01,0.76
3.17E-01,0.78
3.24E-01,0.80

3.30E-01,0.82
3.37E-01,0.84
3.43E-01,0.86
3.49E-01,0.88
3.56E-01,0.90
3.62E-01,0.92
3.68E-01,0.94
3.74E-01,0.96
3.80E-01,0.98
3.86E-01,1.00

MatrixKD_UCF_Ni

5.06E-06,0.00
9.95E-03,0.02
1.98E-02,0.04
2.95E-02,0.06
3.91E-02,0.08
4.86E-02,0.10
5.80E-02,0.12
6.72E-02,0.14
7.64E-02,0.16
8.55E-02,0.18
9.44E-02,0.20
1.03E-01,0.22
1.12E-01,0.24
1.21E-01,0.26
1.29E-01,0.28
1.38E-01,0.30
1.46E-01,0.32
1.55E-01,0.34
1.63E-01,0.36
1.71E-01,0.38
1.79E-01,0.40
1.87E-01,0.42
1.95E-01,0.44
2.03E-01,0.46
2.10E-01,0.48
2.18E-01,0.50
2.25E-01,0.52
2.33E-01,0.54
2.40E-01,0.56
2.48E-01,0.58
2.55E-01,0.60
2.62E-01,0.62
2.69E-01,0.64
2.76E-01,0.66
2.83E-01,0.68
2.90E-01,0.70
2.97E-01,0.72
3.04E-01,0.74
3.10E-01,0.76
3.17E-01,0.78
3.24E-01,0.80
3.30E-01,0.82
3.37E-01,0.84
3.43E-01,0.86

3.49E-01,0.88
3.56E-01,0.90
3.62E-01,0.92
3.68E-01,0.94
3.74E-01,0.96
3.80E-01,0.98
3.86E-01,1.00

MatrixKD_BFw_Ni

5.06E-06,0.00
9.95E-03,0.02
1.98E-02,0.04
2.95E-02,0.06
3.91E-02,0.08
4.86E-02,0.10
5.80E-02,0.12
6.72E-02,0.14
7.64E-02,0.16
8.55E-02,0.18
9.44E-02,0.20
1.03E-01,0.22
1.12E-01,0.24
1.21E-01,0.26
1.29E-01,0.28
1.38E-01,0.30
1.46E-01,0.32
1.55E-01,0.34
1.63E-01,0.36
1.71E-01,0.38
1.79E-01,0.40
1.87E-01,0.42
1.95E-01,0.44
2.03E-01,0.46
2.10E-01,0.48
2.18E-01,0.50
2.25E-01,0.52
2.33E-01,0.54
2.40E-01,0.56
2.48E-01,0.58
2.55E-01,0.60
2.62E-01,0.62
2.69E-01,0.64
2.76E-01,0.66
2.83E-01,0.68
2.90E-01,0.70
2.97E-01,0.72
3.04E-01,0.74
3.10E-01,0.76
3.17E-01,0.78
3.24E-01,0.80
3.30E-01,0.82
3.37E-01,0.84
3.43E-01,0.86
3.49E-01,0.88
3.56E-01,0.90
3.62E-01,0.92

3.68E-01,0.94
3.74E-01,0.96
3.80E-01,0.98
3.86E-01,1.00

MatrixKD_UFZ_Ni

5.06E-06,0.00
9.95E-03,0.02
1.98E-02,0.04
2.95E-02,0.06
3.91E-02,0.08
4.86E-02,0.10
5.80E-02,0.12
6.72E-02,0.14
7.64E-02,0.16
8.55E-02,0.18
9.44E-02,0.20
1.03E-01,0.22
1.12E-01,0.24
1.21E-01,0.26
1.29E-01,0.28
1.38E-01,0.30
1.46E-01,0.32
1.55E-01,0.34
1.63E-01,0.36
1.71E-01,0.38
1.79E-01,0.40
1.87E-01,0.42
1.95E-01,0.44
2.03E-01,0.46
2.10E-01,0.48
2.18E-01,0.50
2.25E-01,0.52
2.33E-01,0.54
2.40E-01,0.56
2.48E-01,0.58
2.55E-01,0.60
2.62E-01,0.62
2.69E-01,0.64
2.76E-01,0.66
2.83E-01,0.68
2.90E-01,0.70
2.97E-01,0.72
3.04E-01,0.74
3.10E-01,0.76
3.17E-01,0.78
3.24E-01,0.80
3.30E-01,0.82
3.37E-01,0.84
3.43E-01,0.86
3.49E-01,0.88
3.56E-01,0.90
3.62E-01,0.92
3.68E-01,0.94
3.74E-01,0.96
3.80E-01,0.98

3.86E-01,1.00

MatrixKD_TSw_Se

3.00E-07,0.00

6.00E-04,0.02

1.20E-03,0.04

1.80E-03,0.06

2.40E-03,0.08

2.99E-03,0.10

3.59E-03,0.12

4.19E-03,0.14

4.79E-03,0.16

5.38E-03,0.18

5.98E-03,0.20

6.57E-03,0.22

7.17E-03,0.24

7.76E-03,0.26

8.36E-03,0.28

8.95E-03,0.30

9.55E-03,0.32

1.01E-02,0.34

1.07E-02,0.36

1.13E-02,0.38

1.19E-02,0.40

1.25E-02,0.42

1.31E-02,0.44

1.37E-02,0.46

1.43E-02,0.48

1.49E-02,0.50

1.55E-02,0.52

1.60E-02,0.54

1.66E-02,0.56

1.72E-02,0.58

1.78E-02,0.60

1.84E-02,0.62

1.90E-02,0.64

1.96E-02,0.66

2.02E-02,0.68

2.07E-02,0.70

2.13E-02,0.72

2.19E-02,0.74

2.25E-02,0.76

2.31E-02,0.78

2.37E-02,0.80

2.42E-02,0.82

2.48E-02,0.84

2.54E-02,0.86

2.60E-02,0.88

2.66E-02,0.90

2.72E-02,0.92

2.77E-02,0.94

2.83E-02,0.96

2.89E-02,0.98

2.95E-02,1.00

MatrixKD_ChvSe

2.00E-07,0.00
4.00E-04,0.02
8.00E-04,0.04
1.20E-03,0.06
1.60E-03,0.08
2.00E-03,0.10
2.40E-03,0.12
2.80E-03,0.14
3.19E-03,0.16
3.59E-03,0.18
3.99E-03,0.20
4.39E-03,0.22
4.79E-03,0.24
5.18E-03,0.26
5.58E-03,0.28
5.98E-03,0.30
6.38E-03,0.32
6.77E-03,0.34
7.17E-03,0.36
7.57E-03,0.38
7.96E-03,0.40
8.36E-03,0.42
8.75E-03,0.44
9.15E-03,0.46
9.55E-03,0.48
9.94E-03,0.50
1.03E-02,0.52
1.07E-02,0.54
1.11E-02,0.56
1.15E-02,0.58
1.19E-02,0.60
1.23E-02,0.62
1.27E-02,0.64
1.31E-02,0.66
1.35E-02,0.68
1.39E-02,0.70
1.43E-02,0.72
1.47E-02,0.74
1.51E-02,0.76
1.55E-02,0.78
1.59E-02,0.80
1.62E-02,0.82
1.66E-02,0.84
1.70E-02,0.86
1.74E-02,0.88
1.78E-02,0.90
1.82E-02,0.92
1.86E-02,0.94
1.90E-02,0.96
1.94E-02,0.98
1.98E-02,1.00

MatrixKD_CHnzSe

1.50E-07,0.00
3.00E-04,0.02
6.00E-04,0.04

9.00E-04,0.06
1.20E-03,0.08
1.50E-03,0.10
1.80E-03,0.12
2.10E-03,0.14
2.40E-03,0.16
2.70E-03,0.18
2.99E-03,0.20
3.29E-03,0.22
3.59E-03,0.24
3.89E-03,0.26
4.19E-03,0.28
4.49E-03,0.30
4.79E-03,0.32
5.08E-03,0.34
5.38E-03,0.36
5.68E-03,0.38
5.98E-03,0.40
6.28E-03,0.42
6.57E-03,0.44
6.87E-03,0.46
7.17E-03,0.48
7.47E-03,0.50
7.76E-03,0.52
8.06E-03,0.54
8.36E-03,0.56
8.66E-03,0.58
8.95E-03,0.60
9.25E-03,0.62
9.55E-03,0.64
9.84E-03,0.66
1.01E-02,0.68
1.04E-02,0.70
1.07E-02,0.72
1.10E-02,0.74
1.13E-02,0.76
1.16E-02,0.78
1.19E-02,0.80
1.22E-02,0.82
1.25E-02,0.84
1.28E-02,0.86
1.31E-02,0.88
1.34E-02,0.90
1.37E-02,0.92
1.40E-02,0.94
1.43E-02,0.96
1.46E-02,0.98
1.49E-02,1.00

MatrixKD_PPw_Se

3.00E-07,0.00
6.00E-04,0.02
1.20E-03,0.04
1.80E-03,0.06
2.40E-03,0.08
2.99E-03,0.10

3.59E-03,0.12
4.19E-03,0.14
4.79E-03,0.16
5.38E-03,0.18
5.98E-03,0.20
6.57E-03,0.22
7.17E-03,0.24
7.76E-03,0.26
8.36E-03,0.28
8.95E-03,0.30
9.55E-03,0.32
1.01E-02,0.34
1.07E-02,0.36
1.13E-02,0.38
1.19E-02,0.40
1.25E-02,0.42
1.31E-02,0.44
1.37E-02,0.46
1.43E-02,0.48
1.49E-02,0.50
1.55E-02,0.52
1.60E-02,0.54
1.66E-02,0.56
1.72E-02,0.58
1.78E-02,0.60
1.84E-02,0.62
1.90E-02,0.64
1.96E-02,0.66
2.02E-02,0.68
2.07E-02,0.70
2.13E-02,0.72
2.19E-02,0.74
2.25E-02,0.76
2.31E-02,0.78
2.37E-02,0.80
2.42E-02,0.82
2.48E-02,0.84
2.54E-02,0.86
2.60E-02,0.88
2.66E-02,0.90
2.72E-02,0.92
2.77E-02,0.94
2.83E-02,0.96
2.89E-02,0.98
2.95E-02,1.00

MatrixKD_UCF_Se

3.00E-07,0.00
6.00E-04,0.02
1.20E-03,0.04
1.80E-03,0.06
2.40E-03,0.08
2.99E-03,0.10
3.59E-03,0.12
4.19E-03,0.14
4.79E-03,0.16

5.38E-03,0.18
5.98E-03,0.20
6.57E-03,0.22
7.17E-03,0.24
7.76E-03,0.26
8.36E-03,0.28
8.95E-03,0.30
9.55E-03,0.32
1.01E-02,0.34
1.07E-02,0.36
1.13E-02,0.38
1.19E-02,0.40
1.25E-02,0.42
1.31E-02,0.44
1.37E-02,0.46
1.43E-02,0.48
1.49E-02,0.50
1.55E-02,0.52
1.60E-02,0.54
1.66E-02,0.56
1.72E-02,0.58
1.78E-02,0.60
1.84E-02,0.62
1.90E-02,0.64
1.96E-02,0.66
2.02E-02,0.68
2.07E-02,0.70
2.13E-02,0.72
2.19E-02,0.74
2.25E-02,0.76
2.31E-02,0.78
2.37E-02,0.80
2.42E-02,0.82
2.48E-02,0.84
2.54E-02,0.86
2.60E-02,0.88
2.66E-02,0.90
2.72E-02,0.92
2.77E-02,0.94
2.83E-02,0.96
2.89E-02,0.98
2.95E-02,1.00

MatrixKD_BFw_Se

3.00E-07,0.00
6.00E-04,0.02
1.20E-03,0.04
1.80E-03,0.06
2.40E-03,0.08
2.99E-03,0.10
3.59E-03,0.12
4.19E-03,0.14
4.79E-03,0.16
5.38E-03,0.18
5.98E-03,0.20
6.57E-03,0.22

7.17E-03,0.24
7.76E-03,0.26
8.36E-03,0.28
8.95E-03,0.30
9.55E-03,0.32
1.01E-02,0.34
1.07E-02,0.36
1.13E-02,0.38
1.19E-02,0.40
1.25E-02,0.42
1.31E-02,0.44
1.37E-02,0.46
1.43E-02,0.48
1.49E-02,0.50
1.55E-02,0.52
1.60E-02,0.54
1.66E-02,0.56
1.72E-02,0.58
1.78E-02,0.60
1.84E-02,0.62
1.90E-02,0.64
1.96E-02,0.66
2.02E-02,0.68
2.07E-02,0.70
2.13E-02,0.72
2.19E-02,0.74
2.25E-02,0.76
2.31E-02,0.78
2.37E-02,0.80
2.42E-02,0.82
2.48E-02,0.84
2.54E-02,0.86
2.60E-02,0.88
2.66E-02,0.90
2.72E-02,0.92
2.77E-02,0.94
2.83E-02,0.96
2.89E-02,0.98
2.95E-02,1.00

MatrixKD_UFZ_Se

3.00E-07,0.00
6.00E-04,0.02
1.20E-03,0.04
1.80E-03,0.06
2.40E-03,0.08
2.99E-03,0.10
3.59E-03,0.12
4.19E-03,0.14
4.79E-03,0.16
5.38E-03,0.18
5.98E-03,0.20
6.57E-03,0.22
7.17E-03,0.24
7.76E-03,0.26
8.36E-03,0.28

8.95E-03,0.30
9.55E-03,0.32
1.01E-02,0.34
1.07E-02,0.36
1.13E-02,0.38
1.19E-02,0.40
1.25E-02,0.42
1.31E-02,0.44
1.37E-02,0.46
1.43E-02,0.48
1.49E-02,0.50
1.55E-02,0.52
1.60E-02,0.54
1.66E-02,0.56
1.72E-02,0.58
1.78E-02,0.60
1.84E-02,0.62
1.90E-02,0.64
1.96E-02,0.66
2.02E-02,0.68
2.07E-02,0.70
2.13E-02,0.72
2.19E-02,0.74
2.25E-02,0.76
2.31E-02,0.78
2.37E-02,0.80
2.42E-02,0.82
2.48E-02,0.84
2.54E-02,0.86
2.60E-02,0.88
2.66E-02,0.90
2.72E-02,0.92
2.77E-02,0.94
2.83E-02,0.96
2.89E-02,0.98
2.95E-02,1.00

Rd,eff, cumul prob

AlluviumMatrixRD_SAV_Am

2.03E+04,0.0013
2.15E+04,0.0019
2.25E+04,0.0026
2.34E+04,0.0035
2.48E+04,0.0062
2.54E+04,0.0082
2.58E+04,0.0107
2.62E+04,0.0139
2.68E+04,0.0228
2.70E+04,0.0287
2.71E+04,0.0359
2.73E+04,0.0446
2.74E+04,0.0668
2.75E+04,0.0808
2.76E+04,0.0968
2.76E+04,0.1151
2.77E+04,0.1587
2.77E+04,0.1841
2.77E+04,0.2119
2.77E+04,0.2420
2.77E+04,0.3085
2.78E+04,0.3446
2.78E+04,0.3821
2.78E+04,0.4207
2.78E+04,0.5000
2.78E+04,0.5398
2.78E+04,0.5793
2.78E+04,0.6179
2.78E+04,0.6915
2.78E+04,0.7257
2.78E+04,0.7580
2.78E+04,0.7881
2.78E+04,0.8413
2.78E+04,0.8643
2.78E+04,0.8849
2.78E+04,0.9032
2.78E+04,0.9332
2.78E+04,0.9452
2.78E+04,0.9554
2.78E+04,0.9641
2.78E+04,0.9772
2.78E+04,0.9821
2.78E+04,0.9861
2.78E+04,0.9893
2.78E+04,0.9938
2.78E+04,0.9953
2.78E+04,0.9965
2.78E+04,0.9974
2.78E+04,0.9981
2.78E+04,0.9987

AlluviumMatrixRD_SAV_Np

1.00E+00,0.0013

1.15E+00,0.0019
1.32E+00,0.0026
1.51E+00,0.0035
1.99E+00,0.0062
2.29E+00,0.0082
2.62E+00,0.0107
3.01E+00,0.0139
3.97E+00,0.0228
4.55E+00,0.0287
5.23E+00,0.0359
6.00E+00,0.0446
7.90E+00,0.0668
9.07E+00,0.0808
1.04E+01,0.0968
1.19E+01,0.1151
1.57E+01,0.1587
1.81E+01,0.1841
2.07E+01,0.2119
2.38E+01,0.2420
3.13E+01,0.3085
3.59E+01,0.3446
4.12E+01,0.3821
4.73E+01,0.4207
6.23E+01,0.5000
7.15E+01,0.5398
8.20E+01,0.5793
9.41E+01,0.6179
1.24E+02,0.6915
1.42E+02,0.7257
1.63E+02,0.7580
1.87E+02,0.7881
2.46E+02,0.8413
2.82E+02,0.8643
3.23E+02,0.8849
3.70E+02,0.9032
4.85E+02,0.9332
5.55E+02,0.9452
6.35E+02,0.9554
7.27E+02,0.9641
9.49E+02,0.9772
1.08E+03,0.9821
1.24E+03,0.9861
1.41E+03,0.9893
1.83E+03,0.9938
2.08E+03,0.9953
2.36E+03,0.9965
2.68E+03,0.9974
3.03E+03,0.9981
3.42E+03,0.9987

AlluviumMatrixRD_SAV_U

1.00E+00,0.0013
1.18E+00,0.0019
1.39E+00,0.0026
1.64E+00,0.0035
2.27E+00,0.0062

2.68E+00,0.0082
3.16E+00,0.0107
3.72E+00,0.0139
5.17E+00,0.0228
6.09E+00,0.0287
7.17E+00,0.0359
8.45E+00,0.0446
1.17E+01,0.0668
1.38E+01,0.0808
1.63E+01,0.0968
1.92E+01,0.1151
2.67E+01,0.1587
3.14E+01,0.1841
3.70E+01,0.2119
4.36E+01,0.2420
6.05E+01,0.3085
7.13E+01,0.3446
8.40E+01,0.3821
9.89E+01,0.4207
1.37E+02,0.5000
1.62E+02,0.5398
1.90E+02,0.5793
2.24E+02,0.6179
3.10E+02,0.6915
3.64E+02,0.7257
4.28E+02,0.7580
5.03E+02,0.7881
6.94E+02,0.8413
8.15E+02,0.8643
9.55E+02,0.8849
1.12E+03,0.9032
1.53E+03,0.9332
1.78E+03,0.9452
2.08E+03,0.9554
2.42E+03,0.9641
3.25E+03,0.9772
3.75E+03,0.9821
4.31E+03,0.9861
4.95E+03,0.9893
6.43E+03,0.9938
7.27E+03,0.9953
8.19E+03,0.9965
9.17E+03,0.9974
1.02E+04,0.9981
1.13E+04,0.9987

AlluviumMatrixRD_SAV_Pu

4.14E+02,0.0013
4.63E+02,0.0019
5.18E+02,0.0026
5.79E+02,0.0035
7.23E+02,0.0062
8.08E+02,0.0082
9.02E+02,0.0107
1.01E+03,0.0139
1.25E+03,0.0228

1.40E+03,0.0287
1.56E+03,0.0359
1.73E+03,0.0446
2.14E+03,0.0668
2.38E+03,0.0808
2.64E+03,0.0968
2.92E+03,0.1151
3.57E+03,0.1587
3.94E+03,0.1841
4.34E+03,0.2119
4.78E+03,0.2420
5.74E+03,0.3085
6.28E+03,0.3446
6.85E+03,0.3821
7.46E+03,0.4207
8.76E+03,0.5000
9.46E+03,0.5398
1.02E+04,0.5793
1.09E+04,0.6179
1.25E+04,0.6915
1.33E+04,0.7257
1.40E+04,0.7580
1.48E+04,0.7881
1.64E+04,0.8413
1.71E+04,0.8643
1.79E+04,0.8849
1.86E+04,0.9032
1.99E+04,0.9332
2.06E+04,0.9452
2.12E+04,0.9554
2.17E+04,0.9641
2.27E+04,0.9772
2.32E+04,0.9821
2.36E+04,0.9861
2.40E+04,0.9893
2.47E+04,0.9938
2.50E+04,0.9953
2.52E+04,0.9965
2.55E+04,0.9974
2.57E+04,0.9981
2.59E+04,0.9987

AlluviumMatrixRD_SAV_Th

1.90E+00,0.0013
2.52E+00,0.0019
3.35E+00,0.0026
4.44E+00,0.0035
7.82E+00,0.0062
1.04E+01,0.0082
1.38E+01,0.0107
1.83E+01,0.0139
3.22E+01,0.0228
4.27E+01,0.0287
5.66E+01,0.0359
7.51E+01,0.0446
1.32E+02,0.0668

1.75E+02,0.0808
2.32E+02,0.0968
3.06E+02,0.1151
5.35E+02,0.1587
7.06E+02,0.1841
9.29E+02,0.2119
1.22E+03,0.2420
2.08E+03,0.3085
2.69E+03,0.3446
3.46E+03,0.3821
4.42E+03,0.4207
6.94E+03,0.5000
8.51E+03,0.5398
1.03E+04,0.5793
1.22E+04,0.6179
1.61E+04,0.6915
1.79E+04,0.7257
1.96E+04,0.7580
2.12E+04,0.7881
2.36E+04,0.8413
2.45E+04,0.8643
2.52E+04,0.8849
2.58E+04,0.9032
2.66E+04,0.9332
2.69E+04,0.9452
2.71E+04,0.9554
2.73E+04,0.9641
2.75E+04,0.9772
2.76E+04,0.9821
2.76E+04,0.9861
2.77E+04,0.9893
2.77E+04,0.9938
2.77E+04,0.9953
2.77E+04,0.9965
2.77E+04,0.9974
2.78E+04,0.9981
2.78E+04,0.9987

AlluviumMatrixRD_SAV_Ra

1.87E+03,0.00
1.91E+03,0.02
1.96E+03,0.04
2.02E+03,0.06
2.07E+03,0.08
2.12E+03,0.10
2.18E+03,0.12
2.23E+03,0.14
2.29E+03,0.16
2.35E+03,0.18
2.41E+03,0.20
2.47E+03,0.22
2.54E+03,0.24
2.60E+03,0.26
2.67E+03,0.28
2.73E+03,0.30
2.80E+03,0.32

2.87E+03,0.34
2.95E+03,0.36
3.02E+03,0.38
3.09E+03,0.40
3.17E+03,0.42
3.25E+03,0.44
3.33E+03,0.46
3.41E+03,0.48
3.50E+03,0.50
3.58E+03,0.52
3.67E+03,0.54
3.76E+03,0.56
3.85E+03,0.58
3.94E+03,0.60
4.04E+03,0.62
4.13E+03,0.64
4.23E+03,0.66
4.33E+03,0.68
4.44E+03,0.70
4.54E+03,0.72
4.65E+03,0.74
4.75E+03,0.76
4.86E+03,0.78
4.98E+03,0.80
5.09E+03,0.82
5.21E+03,0.84
5.33E+03,0.86
5.45E+03,0.88
5.57E+03,0.90
5.69E+03,0.92
5.82E+03,0.94
5.95E+03,0.96
6.08E+03,0.98
6.21E+03,1.00

AlluviumMatrixRD_SAV_Pb

1.87E+03,0.00
1.91E+03,0.02
1.96E+03,0.04
2.02E+03,0.06
2.07E+03,0.08
2.12E+03,0.10
2.18E+03,0.12
2.23E+03,0.14
2.29E+03,0.16
2.35E+03,0.18
2.41E+03,0.20
2.47E+03,0.22
2.54E+03,0.24
2.60E+03,0.26
2.67E+03,0.28
2.73E+03,0.30
2.80E+03,0.32
2.87E+03,0.34
2.95E+03,0.36
3.02E+03,0.38

3.09E+03,0.40
3.17E+03,0.42
3.25E+03,0.44
3.33E+03,0.46
3.41E+03,0.48
3.50E+03,0.50
3.58E+03,0.52
3.67E+03,0.54
3.76E+03,0.56
3.85E+03,0.58
3.94E+03,0.60
4.04E+03,0.62
4.13E+03,0.64
4.23E+03,0.66
4.33E+03,0.68
4.44E+03,0.70
4.54E+03,0.72
4.65E+03,0.74
4.75E+03,0.76
4.86E+03,0.78
4.98E+03,0.80
5.09E+03,0.82
5.21E+03,0.84
5.33E+03,0.86
5.45E+03,0.88
5.57E+03,0.90
5.69E+03,0.92
5.82E+03,0.94
5.95E+03,0.96
6.08E+03,0.98
6.21E+03,1.00

AlluviumMatrixRD_SAV_Cs

2.12E+04,0.00
2.12E+04,0.02
2.12E+04,0.04
2.13E+04,0.06
2.13E+04,0.08
2.13E+04,0.10
2.13E+04,0.12
2.13E+04,0.14
2.13E+04,0.16
2.13E+04,0.18
2.13E+04,0.20
2.13E+04,0.22
2.14E+04,0.24
2.14E+04,0.26
2.14E+04,0.28
2.14E+04,0.30
2.14E+04,0.32
2.14E+04,0.34
2.14E+04,0.36
2.14E+04,0.38
2.14E+04,0.40
2.14E+04,0.42
2.15E+04,0.44

2.15E+04,0.46
2.15E+04,0.48
2.15E+04,0.50
2.15E+04,0.52
2.15E+04,0.54
2.15E+04,0.56
2.15E+04,0.58
2.15E+04,0.60
2.15E+04,0.62
2.16E+04,0.64
2.16E+04,0.66
2.16E+04,0.68
2.16E+04,0.70
2.16E+04,0.72
2.16E+04,0.74
2.16E+04,0.76
2.16E+04,0.78
2.16E+04,0.80
2.16E+04,0.82
2.17E+04,0.84
2.17E+04,0.86
2.17E+04,0.88
2.17E+04,0.90
2.17E+04,0.92
2.17E+04,0.94
2.17E+04,0.96
2.17E+04,0.98
2.17E+04,1.00

AlluviumMatrixRD_SAV_Ni

9.65E+02,0.00
1.00E+03,0.02
1.05E+03,0.04
1.09E+03,0.06
1.13E+03,0.08
1.18E+03,0.10
1.23E+03,0.12
1.28E+03,0.14
1.33E+03,0.16
1.38E+03,0.18
1.44E+03,0.20
1.50E+03,0.22
1.56E+03,0.24
1.62E+03,0.26
1.68E+03,0.28
1.75E+03,0.30
1.82E+03,0.32
1.89E+03,0.34
1.96E+03,0.36
2.04E+03,0.38
2.12E+03,0.40
2.21E+03,0.42
2.29E+03,0.44
2.38E+03,0.46
2.47E+03,0.48
2.57E+03,0.50

2.67E+03,0.52
2.77E+03,0.54
2.87E+03,0.56
2.98E+03,0.58
3.09E+03,0.60
3.21E+03,0.62
3.33E+03,0.64
3.45E+03,0.66
3.58E+03,0.68
3.71E+03,0.70
3.85E+03,0.72
3.99E+03,0.74
4.13E+03,0.76
4.28E+03,0.78
4.44E+03,0.80
4.59E+03,0.82
4.75E+03,0.84
4.92E+03,0.86
5.09E+03,0.88
5.27E+03,0.90
5.45E+03,0.92
5.63E+03,0.94
5.82E+03,0.96
6.01E+03,0.98
6.21E+03,1.00

AlluviumMatrixRD_SAV_Se

1.00E+00,0.00
1.13E+00,0.02
1.28E+00,0.04
1.45E+00,0.06
1.64E+00,0.08
1.86E+00,0.10
2.11E+00,0.12
2.39E+00,0.14
2.70E+00,0.16
3.06E+00,0.18
3.47E+00,0.20
3.92E+00,0.22
4.44E+00,0.24
5.03E+00,0.26
5.70E+00,0.28
6.45E+00,0.30
7.30E+00,0.32
8.27E+00,0.34
9.37E+00,0.36
1.06E+01,0.38
1.20E+01,0.40
1.36E+01,0.42
1.54E+01,0.44
1.74E+01,0.46
1.97E+01,0.48
2.23E+01,0.50
2.53E+01,0.52
2.86E+01,0.54
3.24E+01,0.56

3.67E+01,0.58
4.16E+01,0.60
4.71E+01,0.62
5.33E+01,0.64
6.03E+01,0.66
6.83E+01,0.68
7.73E+01,0.70
8.75E+01,0.72
9.90E+01,0.74
1.12E+02,0.76
1.27E+02,0.78
1.44E+02,0.80
1.62E+02,0.82
1.84E+02,0.84
2.08E+02,0.86
2.35E+02,0.88
2.66E+02,0.90
3.01E+02,0.92
3.40E+02,0.94
3.85E+02,0.96
4.35E+02,0.98
4.91E+02,1.00

AlluviumMatrixRD_SAV_Nb

1.87E+03,0.00
1.96E+03,0.02
2.06E+03,0.04
2.17E+03,0.06
2.28E+03,0.08
2.40E+03,0.10
2.52E+03,0.12
2.64E+03,0.14
2.78E+03,0.16
2.91E+03,0.18
3.06E+03,0.20
3.21E+03,0.22
3.37E+03,0.24
3.53E+03,0.26
3.70E+03,0.28
3.88E+03,0.30
4.06E+03,0.32
4.25E+03,0.34
4.45E+03,0.36
4.66E+03,0.38
4.87E+03,0.40
5.09E+03,0.42
5.32E+03,0.44
5.56E+03,0.46
5.80E+03,0.48
6.06E+03,0.50
6.32E+03,0.52
6.59E+03,0.54
6.86E+03,0.56
7.15E+03,0.58
7.44E+03,0.60
7.74E+03,0.62

8.04E+03,0.64
8.35E+03,0.66
8.67E+03,0.68
9.00E+03,0.70
9.33E+03,0.72
9.67E+03,0.74
1.00E+04,0.76
1.04E+04,0.78
1.07E+04,0.80
1.11E+04,0.82
1.14E+04,0.84
1.18E+04,0.86
1.22E+04,0.88
1.25E+04,0.90
1.29E+04,0.92
1.33E+04,0.94
1.37E+04,0.96
1.40E+04,0.98
1.44E+04,1.00

	Rd,eff	Rd,eff
AlluviumMatrixRD_SAV_Cm		2.03E+04
ImmobileRD_STFF_Am	3.60E+04	
ImmobileRD_STFF_Np	1.90E+01	
ImmobileRD_STFF_Cm	3.60E+04	
ImmobileRD_STFF_U	3.71E+01	
ImmobileRD_STFF_Pu	1.98E+03	
ImmobileRD_STFF_Th	3.60E+04	
ImmobileRD_STFF_Ra	7.02E+03	
ImmobileRD_STFF_Pb	7.02E+03	
ImmobileRD_STFF_Cs	1.35E+04	
ImmobileRD_STFF_Ni	1.98E+03	
ImmobileRD_STFF_Se	5.52E+01	
ImmobileRD_STFF_Nb	3.60E+04	

The Rd,eff calculation assumes that DiffusionRate_STFF is fixed at 0.001 m²/y.