

DISCRETE - VERSION 1B (APRIL 1974) TEST DATA SET 1 - WITH PROPER UNIT WEIGHTING AND NORMALLY COMPREHENSIVE OUTPUT

LAST = F REGINT = F NOBASE = F MONNEG = F PRPREL = F PRFINL = T PLOTS = 3 T REPEAT = F
 NLAMMX = 4 IWT = 1 MTRY = 5

I START TEND NT
 .000000 .450000+002 10
 .750000+002 .945000+003 30

	T	Y	T	Y	T	Y	T	Y	T	Y
0.00000	3.17951+00	5.00000+000	2.72385+00	1.00000+001	2.38005+00	1.50000+001	3.50000+001	1.50000+001	2.17513+00	
2.00000+001	1.96817+00	2.50000+001	1.83133+00	3.00000+001	1.71227+00	3.50000+001	3.50000+001	3.50000+001	1.66732+00	
4.00000+001	1.60041+00	4.50000+001	1.52702+00	7.50000+001	1.28123+00	1.05000+002	1.05000+002	1.05000+002	1.03639+00	
1.35000+002	9.11274-01	1.65000+002	7.93438-01	1.95000+002	7.04310-01	2.25000+002	2.25000+002	2.25000+002	6.49749-01	
2.55000+002	5.95533-01	2.85000+002	4.99157-01	3.15000+002	4.61291-01	3.45000+002	3.45000+002	3.45000+002	3.51978-01	
3.75000+002	3.81508-01	4.05000+002	3.28100-01	4.35000+002	2.73046-01	4.65000+002	4.65000+002	4.65000+002	2.63287-01	
4.95000+002	2.66722-01	5.25000+002	2.48385-01	5.55000+002	1.77709-01	5.85000+002	5.85000+002	5.85000+002	1.33162-01	
6.15000+002	1.55815-01	6.45000+002	8.17959-02	6.75000+002	1.03332-01	7.05000+002	7.05000+002	7.05000+002	1.61067-01	
7.35000+002	7.68593-02	7.65000+002	1.19229-01	7.95000+002	6.39275-02	8.25000+002	8.25000+002	8.25000+002	5.87735-03	
8.55000+002	1.99340-02	8.85000+002	2.95760-02	9.15000+002	0.00000	9.45000+002	9.45000+002	9.45000+002	2.92465-04	

TEST DATA SET 1 - WITH PROPER UNIT WEIGHTING AND NORMALLY COMPREHENSIVE OUTPUT

FINAL ANALYSIS ASSUMING 1 COMPONENTS

ITR	VARIANCE	DAMPING Q	BASELINE	ALPHA	LAMBDA	ALPHA	LAMBDA	ALPHA	LAMBDA	ALPHA	LAMBDA
0	1.1790+000	0.00	1.35-001	2.36+000	8.22-003						
1	1.1523+000	1.77+00	1.62-001	2.39+000	9.26-003						
2	1.1517+000	1.99+00	1.66-001	2.40+000	9.44-003						
3	1.1517+000	2.04+00	1.66-001	2.40+000	9.44-003						
4	1.1517+000	2.04+00	1.66-001	2.40+000	9.44-003						
5	1.1517+000	1.00+00*	1.66-001	2.40+000	9.44-003						

CORRELATION COEFFICIENTS

LAM1
ALP1 .367
BASE .531 -.272

NPHI = 5.671-03

STANDARD DEVIATION OF FIT = SIGYY = 1.76432-01

LAMBDA	+-	STD. ERROR	PERCENT	ALPHA	+-	STD. ERROR	PERCENT
9.4412-003	+-	9.962-04	10.552	2.3956+000	+-	8.692-02	3.628
BASELINE	+-			1.6587-001	+-	4.089-02	24.650

TEST DATA SET 1 - WITH PROPER UNIT WEIGHTING AND NORMALLY COMPREHENSIVE OUTPUT

FINAL ANALYSIS ASSUMING 2 COMPONENTS

ITER	VARIANCE	DAMPING Q	BASELINE	ALPHA	LAMBDA	ALPHA	LAMBDA	ALPHA	LAMBDA	ALPHA	LAMBDA
0	6.5832-002	0.00	3.07-002	1.59+000	4.37-003	1.46+000	4.91-002				
1	4.3062-002	1.09+00	4.39-003	1.66+000	4.15-003	1.48+000	5.81-002				
2	4.2728-002	1.35+00	9.22-003	1.67+000	4.24-003	1.47+000	6.04-002				
3	4.2728-002	1.36+00	9.37-003	1.68+000	4.25-003	1.47+000	6.05-002				
4	4.2728-002	1.06+00	9.38-003	1.68+000	4.25-003	1.47+000	6.05-002				
5	4.2728-002	1.36+00	9.38-003	1.68+000	4.25-003	1.47+000	6.05-002				

CORRELATION COEFFICIENTS

	LAM1	LAM2	ALP1	ALP2
LAM2	.645			
ALP1	.623	.827		
ALP2	-.683	-.482	-.732	
BASE	.843	.404	.229	-.462

NPHI = 2.860-03

STANDARD DEVIATION OF FIT = SIGY = 3.49398-02

LAMBDA	ALPHA	PERCENT	STD. ERROR	PERCENT
4.2463-003	1.6754+000	4.898	3.920-02	2.340
6.0475-002	1.4687+000	6.627	4.854-02	3.305
BASELINE	9.3814-003		1.660-02	176.980

TEST DATA SET 1 - WITH PROPER UNIT WEIGHTING AND NORMALLY COMPREHENSIVE OUTPUT

FINAL ANALYSIS ASSUMING 3 COMPONENTS

ITER	VARIANCE	DAMPING Q	BASELINE	ALPHA	LAMBDA	ALPHA	LAMBDA	ALPHA	LAMBDA	ALPHA	LAMBDA
0	2.5411-002	0.00	-9.34-002	1.23+000	2.64-003	9.78-001	1.40-002	1.08+000	9.44-002		
1	2.4474-002	9.12-01	-8.57-002	1.23+000	2.71-003	8.96-001	1.33-002	1.14+000	8.45-002		
2	2.4492-002	9.92-01	-8.38-002	1.23+000	2.72-003	8.95-001	1.32-002	1.14+000	8.48-002		
3	2.4462-002	9.40-01	-8.39-002	1.23+000	2.72-003	8.95-001	1.32-002	1.14+000	8.48-002		
4	2.4462-002	1.00+00	-8.39-002	1.23+000	2.72-003	8.95-001	1.32-002	1.14+000	8.48-002		
5	2.4462-002	9.57-01	-8.39-002	1.23+000	2.72-003	8.95-001	1.32-002	1.14+000	8.48-002		

CORRELATION COEFFICIENTS

	LAM1	LAM2	LAM3	ALP1	ALP2	ALP3
LAM2	.884					
LAM3	.480	.708				
ALP1	.947	.963	.573			
ALP2	-.915	-.711	-.147	-.861		
ALP3	-.653	-.898	-.842	-.763	.359	
BASE	.971	.726	.403	.850	-.883	-.555

HPHI = 5.394-02

STANDARD DEVIATION OF FIT = SIGY = 2.72265-02

LAMBDA	+	-	STD. ERROR	PERCENT	ALPHA	+	-	STD. ERROR	PERCENT
2.7174-003	+	-	6.823-04	25.106	1.2295+000	+	-	2.030-01	16.508
1.3205-002	+	-	4.732-03	35.834	8.9518-001	+	-	1.827-01	20.413
8.4816-002	+	-	1.016-02	11.978	1.1436+000	+	-	1.207-01	10.556
BASELINE					-8.3896-002	+	-	5.747-02	68.499

TEST DATA SET 1 - WITH PROPER UNIT WEIGHTING AND NORMALLY COMPREHENSIVE OUTPUT

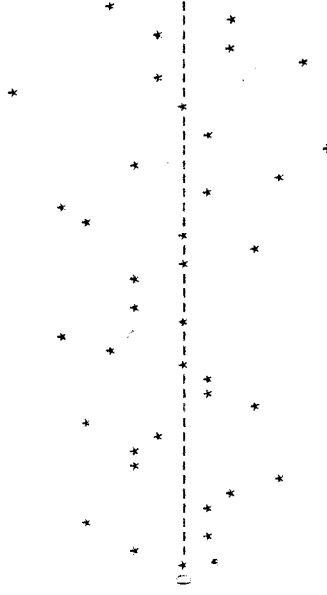
FINAL ANALYSIS ASSUMING 4 COMPONENTS

ITR	VARIANCE	DAMPING Q	BASELINE	ALPHA	LAMBDA	ALPHA	LAMBDA	ALPHA	LAMBDA	ALPHA	LAMBDA	ALPHA	LAMBDA	ALPHA	LAMBDA
0	3.3705-002	0.00	-6.72-002	1.46+000	3.16-003	1.39+000	3.16-002	-3.96-001	6.33-002	8.14-001	1.27-001	8.14-001	1.27-001	8.14-001	1.27-001
1	2.8404-002	2.38-01	-6.25-002	1.42+000	3.15-003	1.01+000	2.44-002	-1.68-002	8.32-002	8.32-001	1.11-001	8.32-001	1.11-001	8.32-001	1.11-001
2	2.7175-002	2.57-01*	-6.21-002	1.40+000	3.12-003	9.38+001	2.19-002	6.53-001	1.13-001	2.57-001	7.80-002	2.57-001	7.80-002	2.57-001	7.80-002
3	2.6264-002	2.31-01	-6.25-002	1.39+000	3.10-003	9.28+001	2.08-002	-1.34-001	8.69-002	1.07+000	9.85-002	1.07+000	9.85-002	1.07+000	9.85-002
4	2.6212-002	2.78-02	-6.25-002	1.39+000	3.10-003	9.29+001	2.07-002	2.43+000	9.41-002	-1.50+000	9.05-002	-1.50+000	9.05-002	-1.50+000	9.05-002
5	2.6205-002	2.85-03	-6.25-002	1.39+000	3.10-003	9.29+001	2.07-002	-5.43+000	9.16-002	6.36+000	9.29-002	6.36+000	9.29-002	6.36+000	9.29-002
6	2.4583-002	6.12-01	-6.42-002	1.31+000	2.98-003	8.38+001	1.52-002	-2.10+000	9.16-002*	3.20+000	9.00-002	3.20+000	9.00-002	3.20+000	9.00-002
7	2.4603-002*	3.41-03*	-6.43-002	1.31+000	2.98-003	8.37+001	1.52-002	9.78+001	8.59-002	-1.27+001	9.57-002	-1.27+001	9.57-002	-1.27+001	9.57-002
8	2.4589-002	1.40-02	-6.43-002	1.31+000	2.98-003	8.39+001	1.53-002	2.50+000	8.96-002	-1.40+000	9.16-002	-1.40+000	9.16-002	-1.40+000	9.16-002
9	2.4608-002*	4.15-03*	-6.44-002	1.31+000	2.98-003	8.38+001	1.53-002	1.56-001	9.52-002	9.47+001	8.59-002	9.47+001	8.59-002	9.47+001	8.59-002
10	2.4596-002	1.28-02	-6.44-002	1.31+000	2.98-003	8.40+001	1.53-002	-1.22+000	9.14-002	2.32+000	8.94-002	2.32+000	8.94-002	2.32+000	8.94-002
11	2.4615-002*	4.03-03*	-6.44-002	1.31+000	2.98-003	8.39+001	1.54-002	9.00+001	8.57-002	2.01+001	9.50-002	2.01+001	9.50-002	2.01+001	9.50-002
12	2.4602-002	1.27-02	-6.44-002	1.31+000	2.98-003	8.41+001	1.54-002	2.05+000	8.92-002	-9.54+001	9.12-002	-9.54+001	9.12-002	-9.54+001	9.12-002
13	2.4621-002*	4.15-03*	-6.45-002	1.31+000	2.98-003	8.40+001	1.54-002	2.42+001	9.48-002	8.57+001	8.55-002	8.57+001	8.55-002	8.57+001	8.55-002
14	2.4609-002	1.24-02	-6.45-002	1.31+000	2.98-003	8.42+001	1.55-002	-7.32+001	9.10-002	1.83+000	8.90-002	1.83+000	8.90-002	1.83+000	8.90-002
15	2.4629-002*	4.17-03*	-6.45-002	1.31+000	2.98-003	8.41+001	1.55-002	8.12+001	8.53-002	2.85+001	9.45-002	2.85+001	9.45-002	2.85+001	9.45-002
16	2.4617-002	1.22-02	-6.46-002	1.31+000	2.98-003	8.43+001	1.55-002	1.61+000	8.87-002	-5.13+001	9.08-002	-5.13+001	9.08-002	-5.13+001	9.08-002
17	2.4636-002*	4.20-03*	-6.46-002	1.31+000	2.98-003	8.42+001	1.55-002	3.29+001	9.43-002	7.67+001	8.51-002	7.67+001	8.51-002	7.67+001	8.51-002
18	2.4624-002	1.20-02	-6.46-002	1.31+000	2.98-003	8.43+001	1.56-002	-3.03+001	9.06-002	1.40+000	8.85-002	1.40+000	8.85-002	1.40+000	8.85-002
19	2.4644-002*	4.22-03*	-6.47-002	1.31+000	2.98-003	8.43+001	1.56-002	7.21+001	8.49-002	3.72+001	9.41-002	3.72+001	9.41-002	3.72+001	9.41-002
20	2.4632-002	1.19-02	-6.47-002	1.31+000	2.98-003	8.44+001	1.57-002	1.19+000	8.83-002	-9.72+002	9.03-002	-9.72+002	9.03-002	-9.72+002	9.03-002
21	2.4652-002*	4.22-03*	-6.47-002	1.32+000	2.98-003	8.44+001	1.57-002	4.16+001	9.38-002	6.75+001	8.47-002	6.75+001	8.47-002	6.75+001	8.47-002
22	2.4640-002	1.17-02	-6.47-002	1.32+000	2.98-003	8.45+001	1.57-002	1.05+001	9.01-002	9.84+001	8.81-002	9.84+001	8.81-002	9.84+001	8.81-002
23	2.4651-002*	6.93-04	-6.44-002	1.31+000	2.98-003	8.52+001	1.57-002	1.09+000	8.92-002	0.00	8.90-002	0.00	8.90-002	0.00	8.90-002
24	2.4483-002	7.50-01	-7.58-002	1.25+000	2.81-003	8.68+001	1.36-002	1.21+000	8.50-002	-6.87-002	8.90-002*	-6.87-002	8.90-002*	-6.87-002	8.90-002*
25	2.4487-002*	1.00-02*	-7.57-002	1.25+000	2.81-003	8.68+001	1.36-002	2.24+001	9.04-002	9.17+001	8.35-002	9.17+001	8.35-002	9.17+001	8.35-002
26	2.4485-002	2.00-02*	-7.55-002	1.25+000	2.82-003	8.68+001	1.37-002	9.17+001	8.40-002	2.20+001	8.98-002	2.20+001	8.98-002	2.20+001	8.98-002
27	2.4480-002	1.00-02*	-7.54-002	1.26+000	2.82-003	8.68+001	1.37-002	-5.85+001	8.76-002	1.72+000	8.60-002	1.72+000	8.60-002	1.72+000	8.60-002
28	2.4494-002*	4.04-03*	-7.54-002	1.26+000	2.82-003	8.67+001	1.38-002	7.59+001	8.22-002	3.78+001	9.14-002	3.78+001	9.14-002	3.78+001	9.14-002
29	2.4484-002	1.00-02*	-7.53-002	1.26+000	2.82-003	8.68+001	1.38-002	9.26+001	8.45-002	2.08+001	8.90-002	2.08+001	8.90-002	2.08+001	8.90-002
30	2.4486-002*	1.00-02*	-7.52-002	1.26+000	2.83-003	8.68+001	1.39-002	3.06+001	8.94-002	8.27+001	8.40-002	8.27+001	8.40-002	8.27+001	8.40-002
31	2.4481-002	6.11-03	-7.51-002	1.26+000	2.83-003	8.68+001	1.39-002	-2.65+000	8.68-002	3.78+000	8.64-002	3.78+000	8.64-002	3.78+000	8.64-002
32	2.4481-002*	7.34-05	-7.51-002	1.26+000	2.83-003	8.68+001	1.39-002	3.88+000	8.64-002	-2.74+000	8.68-002	-2.74+000	8.68-002	-2.74+000	8.68-002
33	2.4452-002*	7.04-05	-7.51-002	1.26+000	2.83-003	8.68+001	1.39-002	-2.72+000	8.68-002	3.86+000	8.64-002	3.86+000	8.64-002	3.86+000	8.64-002
34	2.4462-002*	7.09-05	-7.51-002	1.26+000	2.83-003	8.68+001	1.39-002	3.86+000	8.64-002	-2.73+000	8.68-002	-2.73+000	8.68-002	-2.73+000	8.68-002

SINGULARITY IN INVERTING FULL LEAST SQUARES MATRIX - NO CORRELATIONS CALCULATED. *****

PLOT OF RESIDUALS - FOR BEST SOLUTION. MAX RESIDUAL=U= 6.4-002 MIN RESIDUAL=L=-5.5-002

U=====



L=====

20 40 60 80 100 120

DISCRETE - VERSION 1B (APRIL 1976) TEST DATA SET 1 - WITH PROPER UNIT WEIGHTING AND NORMALLY COMPREHENSIVE OUTPUT

BEST SOLUTION 3 COMPONENTS

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*****
* ALPHA +- STD ERR PERCENT LAMBDA +- STD ERR PERCENT * STARTING LAMBDA (FROM FIT TO TRANSFORMS - 1 TRIES)
* 1.229+00 +- 2.0-01 16.508 2.717-03 +- 6.8-04 25.106 * 2.640-03
* 8.952-01 +- 1.8-01 20.413 1.320-02 +- 4.7-03 35.834 * 1.403-02
* 1.144+00 +- 1.2-01 10.556 8.482-02 +- 1.0-02 11.978 * 9.441-02
* -8.390-02 +- 5.7-02 68.499 0.000 +- 0.0 .000 *
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APPROXIMATE PROBABILITY THAT THIS SOLUTION IS REALLY BETTER THAN THE SECOND BEST SOLUTION = * PNG(2/3) = 1.000 *

 ITERATIONS IN FIT = 5 STD. DEV. OF FIT = 2.7227-02 SIGNAL/NOISE RATIO OF FIT = 117.
 LAMBDA HELD BETWEEN 2.11-04 AND 4.16-01 NPHI = 5.39-02

LAG K = 1 K = 2 K = 3 K = 4 K = 5
 PROB. RESIDUALS UNCORRELATED .709 .534 .532 .003 .387 WEIGHTED AVERAGE = * PUNC = .539 *

SECOND BEST SOLUTION 2 COMPONENTS

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*****
* ALPHA +- STD ERR PERCENT LAMBDA +- STD ERR PERCENT * STARTING LAMBDA (FROM FIT TO TRANSFORMS - 1 TRIES)
* 1.675+00 +- 3.2-02 2.340 4.246-03 +- 2.1-04 4.898 * 4.367-03
* 1.469+00 +- 4.2-02 3.305 6.047-02 +- 4.0-03 6.697 * 4.911-02
* 9.381-03 +- 1.7-02 176.980 0.000 +- 0.0 .000 *
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LAG K = 1 K = 2 K = 3 K = 4 K = 5
 PNG(2/3) = 1.000 NPHI = 2.86-03 (UNCORRECTED PNG WOULD BE 1.000)
 ITERATIONS IN FIT = 5 STD. DEV. OF FIT = 3.6940-02 SIGNAL/NOISE RATIO OF FIT = 91.

PROB. RESIDUALS UNCORRELATED .046 .436 .948 .029 .115 WEIGHTED AVERAGE = * PUNC = .267 *

THIRD BEST SOLUTION 1 COMPONENTS

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*****
* ALPHA +- STD ERR PERCENT LAMBDA +- STD ERR PERCENT * STARTING LAMBDA (FROM FIT TO TRANSFORMS - 1 TRIES)
* 2.396+00 +- 8.7-02 3.628 9.441-03 +- 1.0-03 10.552 * 8.221-03
* 1.659-01 +- 4.1-02 24.650 0.000 +- 0.0 .000 *
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LAG K = 1 K = 2 K = 3 K = 4 K = 5
 PNG(1/3) = 1.000 NPHI = 5.67-03 (UNCORRECTED PNG WOULD BE 1.000)
 ITERATIONS IN FIT = 5 STD. DEV. OF FIT = 1.7663-01 SIGNAL/NOISE RATIO OF FIT = 18.

PROB. RESIDUALS UNCORRELATED .000 .000 .012 .367 .794 WEIGHTED AVERAGE = * PUNC = .111 *

DISCRETE - VERSION 1B (APRIL 1976) TEST DATA SET 2 - WITH INCORRECT WEIGHTING AND MOST COMPREHENSIVE OUTPUT

LAST = T	REGINT = F	NOBASE = F	NONNEG = F	PRY = T	PPREL = T	PRFINL = T	PLOTSR = T	REPEAT = T
NLAMMX = 4	IWT = -3	MTRY = 5						
T	Y	T	Y	T	Y	T	Y	T
0.00000	3.17951+00	5.00000+000	2.72335+00	1.00000+001	2.38005+00	1.50000+001	2.17513+00	
2.00000+001	1.96817+00	2.50000+001	1.83133+00	3.00000+001	1.71227+00	3.50000+001	1.66732+00	
4.00000+001	1.60041+00	4.50000+001	1.52702+00	7.50000+001	1.28123+00	1.05000+002	1.03639+00	
1.35000+002	9.11274-01	1.65000+002	7.93438-01	1.95000+002	7.04310-01	2.25000+002	6.49749-01	
2.55000+002	5.95533-01	2.85000+002	4.99157-01	3.15000+002	4.61291-01	3.45000+002	3.51978-01	
3.75000+002	3.81508-01	4.05000+002	3.28100-01	4.35000+002	2.73046-01	4.65000+002	2.63287-01	
4.95000+002	2.66722-01	5.25000+002	2.48385-01	5.55000+002	1.77709-01	5.85000+002	1.33162-01	
6.15000+002	1.55815-01	6.45000+002	8.17959-02	6.75000+002	1.03332-01	7.05000+002	1.61067-01	
7.35000+002	7.68593-02	7.65000+002	1.19229-01	7.95000+002	6.39275-02	8.25000+002	5.87735-03	
8.55000+002	1.99340-02	8.85000+002	2.95760-02	9.15000+002	0.00000	9.45000+002	2.92465-04	

TEST DATA SET 2 - WITH INCORRECT WEIGHTING AND MOST COMPREHENSIVE OUTPUT

PRELIMINARY ANALYSIS TO DETERMINE WEIGHTS
ANALYSIS ASSUMING 1 COMPONENTS

JTR	VARIANCE	DAMPING R	BASELINE	ALPHA	LAMBDA	ALPHA	LAMBDA	ALPHA	LAMBDA	ALPHA	LAMBDA
0	1.6340+000	0.00	1.22-002	2.29+000	5.40-003						
1	1.2020+000	1.56+00	1.24-001	2.35+000	7.83-003						
2	1.1533+000	1.70+00	1.59-001	2.39+000	9.13-003						
3	1.1517+000	1.96+00	1.66-001	2.40+000	9.43-003						
4	1.1517+000	2.03+00	1.66-001	2.40+000	9.44-003						
5	1.1517+000	2.04+00	1.66-001	2.40+000	9.44-003						
6	1.1517+000	1.00-02*	1.66-001	2.40+000	9.44-003						

CORRELATION COEFFICIENTS

LAMB1 .367
ALP1 .531
BASE -.272

STANDARD DEVIATION OF FIT = SIGGY = 1.76432-01

LAMBDA	+-	STD. ERROR	PERCENT	ALPHA	+-	STD. ERROR	PERCENT
9.4412-003	+-	9.962-04	10.552	2.3956+000	+-	8.692-02	3.628
BASELINE	+-			1.6587-001	+-	4.089-02	24.650

TEST DATA SET 2 - WITH INCORRECT WEIGHTING AND MOST COMPREHENSIVE OUTPUT

PRELIMINARY ANALYSIS TO DETERMINE WEIGHTS
ANALYSIS ASSUMING 2 COMPONENTS

ITR	VARIANCE	DAMPING Q	BASELINE	ALPHA	LAMBDA	ALPHA	LAMBDA	ALPHA	LAMBDA	ALPHA	LAMBDA
0	5.3846-001	0.00	-1.56-001	9.85-001	1.83-003	1.86+000	1.59-002				
1	3.1760-001	1.00+00*	7.46-002	1.35+000	4.63-003	1.44+000	2.85-002				
2	6.3837-002	1.14+00	-6.25-002	1.53+000	3.29-003	1.63+000	4.57-002				
3	4.5319-002	1.22+00	1.15-002	1.64+000	4.21-003	1.48+000	5.54-002				
4	4.2767-002	1.14+00	7.12-003	1.67+000	4.21-003	1.48+000	5.97-002				
5	4.2728-002	1.36+00	9.46-003	1.68+000	4.25-003	1.47+000	6.05-002				
6	4.2728-002	1.07+00	9.37-003	1.68+000	4.25-003	1.47+000	6.05-002				
7	4.2728-002	1.35+00	9.38-003	1.68+000	4.25-003	1.47+000	6.05-002				
8	4.2728-002	1.07+00	9.38-003	1.68+000	4.25-003	1.47+000	6.05-002				

CORRELATION COEFFICIENTS

	LAM1	LAM2	ALP1	ALP2
LAM2	.645			
ALP1	.623	.827		
ALP2	-.683	-.482	-.732	
BASE	.843	.404	.229	-.462

STANDARD DEVIATION OF FIT = SIGYY = 3.49398-02

LAMBDA	ALPHA	STD. ERROR	PERCENT
4.2463-003	1.6754+000	3.920-02	2.340
0.00475-002	1.4687+000	4.854-02	3.305
BASELINE	9.3814-003	1.660-02	176.980

TEST DATA SET 2 - WITH INCORRECT WEIGHTING AND MOST COMPREHENSIVE OUTPUT

PRELIMINARY ANALYSIS TO DETERMINE WEIGHTS
ANALYSIS ASSUMING 3 COMPONENTS

ITR	VARIANCE	DAMPING Q	BASELINE	ALPHA	LAMBDA	ALPHA	LAMBDA	ALPHA	LAMBDA	ALPHA	LAMBDA	ALPHA	LAMBDA	ALPHA	LAMBDA	PERCENT
0	2.1455-001	0.00	-4.79-001	1.22+000	1.07-003	4.06-001	5.40-003	1.77+000	2.74-002							
1	1.4234-001	2.80-01	-1.82+000	2.19+000	2.11-004	9.56-001	4.41-003	1.65+000	3.30-002							
2	5.6960-002	1.05+00	-2.33+000	2.82+000	2.11-004*	1.20+000	6.69-003	1.40+000	5.09-002							
3	2.6940-002	1.10+00	-2.48-001	9.59-001	1.44-003	1.17+000	6.29-003	1.28+000	7.10-002							
4	2.5334-002	4.27-01	-1.27-001	1.05+000	2.18-003	1.00+000	9.71-003	1.25+000	7.55-002							
5	2.4723-002	6.18-01	-8.42-002	1.18+000	2.65-003	8.90-001	1.17-002	1.20+000	8.04-002							
6	2.4467-002	1.00+00*	-8.05-002	1.24+000	2.75-003	8.84-001	1.33-002	1.14+000	8.47-002							
7	2.4462-002	1.01+00	-8.38-002	1.23+000	2.72-003	8.95-001	1.32-002	1.14+000	8.48-002							
8	2.4462-002	9.55-01	-8.39-002	1.23+000	2.72-003	8.95-001	1.32-002	1.14+000	8.48-002							
9	2.4462-002	9.99-01	-8.39-002	1.23+000	2.72-003	8.95-001	1.32-002	1.14+000	8.48-002							
10	2.4462-002	9.59-01	-8.39-002	1.23+000	2.72-003	8.95-001	1.32-002	1.14+000	8.48-002							

CORRELATION COEFFICIENTS

	LAM1	LAM2	LAM3	ALP1	ALP2	ALP3
LAM2	.384					
LAM3	.480	.708				
ALP1	.947	.963	.573			
ALP2	-.915	-.711	-.147	-.861		
ALP3	-.653	-.888	-.842	-.763	.359	
BASE	.971	.786	.403	.850	-.883	-.555

STANDARD DEVIATION OF FIT = SIGY = 2.72265-02

LAMBDA	+	-	STD. ERROR	PERCENT	ALPHA	+	-	STD. ERROR	PERCENT
2.7174-003	+	-	6.823-04	25.106	1.2295+000	+	-	2.030-01	16.508
1.3205-002	+	-	4.732-03	35.834	8.9518-001	+	-	1.827-01	20.413
8.4816-002	+	-	1.016-02	11.978	1.1436+000	+	-	1.207-01	10.556
BASELINE					-8.3896-002	+	-	5.747-02	68.499

TEST DATA SET 2 - WITH INCORRECT WEIGHTING AND MOST COMPREHENSIVE OUTPUT

PRELIMINARY ANALYSIS TO DETERMINE WEIGHTS
ANALYSIS ASSUMING 4 COMPONENTS

ITR	VARIANCE	DAMPING Q	BASELINE	ALPHA	LAMBDA	ALPHA	LAMBDA	ALPHA	LAMBDA	ALPHA	LAMBDA	ALPHA	LAMBDA
0	8.7589-002	0.00	3.24-001	-9.13-001	7.71-004	2.14+000	2.82-003	-2.91-001	1.03-002	1.79+000	3.79-002	1.79+000	3.79-002
1	5.2776-002	3.0A-01	-7.90-001	-4.42-001	5.23-003	9.52-001	2.11-004	1.83+000	4.50-003	1.54+000	4.80-002	1.54+000	4.80-002
2	5.1094-002	6.89-02	4.99-001	6.44-001	7.18-003	-1.03+000	3.79-004	1.50+000	1.94-003	1.49+000	4.96-002	1.49+000	4.96-002
3	4.0842-002	2.77-01	1.47+001	8.96-001	8.12-003	2.74+001	3.79-004*	-4.12+001	2.11-004	1.39+000	5.58-002	1.39+000	5.58-002
4	2.6722-002	1.00+00*	1.89+001	1.03+000	1.16-002	3.45+001	3.79-004*	-5.24+001	2.11-004*	1.18+000	7.63-002	1.18+000	7.63-002
5	2.4751-002	1.00+00*	1.40+001	1.15+000	1.04-002	2.66+001	3.79-004*	-3.97+001	2.11-004*	1.19+000	8.26-002	1.19+000	8.26-002
6	2.4748-002	1.00+00*	1.39+001	1.15+000	1.03-002	2.63+001	3.79-004*	-3.93+001	2.11-004*	1.19+000	8.21-002	1.19+000	8.21-002
7	2.4748-002	1.07+00	1.38+001	1.15+000	1.03-002	2.63+001	3.79-004*	-3.93+001	2.11-004*	1.19+000	8.21-002	1.19+000	8.21-002
8	2.4748-002	1.00+00	1.28+001	1.15+000	1.03-002	2.63+001	3.79-004*	-3.93+001	2.11-004*	1.19+000	8.21-002	1.19+000	8.21-002
9	2.4748-002	1.07+00	1.38+001	1.15+000	1.03-002	2.63+001	3.79-004*	-3.93+001	2.11-004*	1.19+000	8.21-002	1.19+000	8.21-002

PARAMETERS USED TO GENERATE WEIGHTS FOR TRANSFORMS

ERRFIT (UNCERTAINTY TERM ADDED TO ABSOLUTE VALUES OF THEORETICAL CURVE) = 3.05-02

LAMBDA	ALPHA
2.717-03	1.229+00
1.320-02	8.952-01
8.482-02	1.144+00

MU	REAL AND IMAGINARY PARTS OF TRANSFORMS	DELTA =
.000	2.756+001	1.00+01
1.369	-3.339+000	
2.737	4.562+000	
4.106	-5.363+000	
5.474	3.437+000	
	2.757-001	

TEST DATA SET 2 - WITH INCORRECT WEIGHTING AND MOST COMPREHENSIVE OUTPUT
 INITIAL ANALYSIS OF THE RAW DATA AND THEN THE TRANSFORMS - ASSUMING 1 COMPONENTS

FIT USING STARTING SET 1

ITR	VARIANCE	DAMPING Q	BASELINE	ALPHA	LAMBDA	ALPHA	LAMBDA	ALPHA	LAMBDA	ALPHA	LAMBDA
0	1.0999+000	0.00	2.91-002	2.16+000	5.40-003						
1	9.0562-001	1.28+00	-7.59-003	1.95+000	4.35-003						
2	9.0286-001	1.20+00	-3.02-003	1.97+000	4.45-003						
3	9.0286-001	1.20+00	-2.98-003	1.97+000	4.45-003						
4	9.0286-001	1.20+00	-2.98-003	1.97+000	4.45-003						
5	9.0286-001	1.00+00*	-2.98-003	1.97+000	4.45-003						

END OF FIT TO RAW DATA, START OF FIT TO TRANSFORMS

ITR	VARIANCE	DAMPING Q	BASELINE	ALPHA	LAMBDA	ALPHA	LAMBDA	ALPHA	LAMBDA	ALPHA	LAMBDA
0	1.5579+000	0.00	1.85-002	1.82+000	4.45-003						
1	1.4078-003	1.00+00*	4.93-002	1.94+000	5.21-003						
2	2.4579-009	1.00+00*	5.01-002	1.95+000	5.24-003						

TEST DATA SET 2 - WITH INCORRECT WEIGHTING AND MOST COMPREHENSIVE OUTPUT

INITIAL ANALYSIS OF THE RAW DATA AND THEN THE TRANSFORMS - ASSUMING 2 COMPONENTS

FIT USING STARTING SET 1

ITR	VARIANCE	DAMPING μ	BASELINE	ALPHA	LAMBDA	ALPHA	LAMBDA	ALPHA	LAMBDA	ALPHA	LAMBDA	ALPHA	LAMBDA
0	7.8269-001	0.00	-1.47-001	4.06-001	1.05-003	1.73+000	5.24-003						
1	5.6497-001	1.29+00	-2.58-001	8.91-001	1.30-003	1.63+000	8.91-003						
2	5.4527-001	1.74-01	-1.56-001	9.54-001	1.87-003	1.49+000	1.00-002						
3	5.2165-001	2.92-01	-9.64-002	1.11+000	2.48-003	1.33+000	1.21-002						
4	4.8490-001	6.94-01	-5.55-002	1.34+000	3.11-003	1.19+000	1.76-002						
5	4.1369-001	1.31+00	-6.04-002	1.40+000	3.12-003	1.47+000	2.94-002						
6	4.0468-001	1.36+00	-5.90-002	1.43+000	3.17-003	1.60+000	3.67-002						
7	4.0447-001	1.47+00	-5.67-002	1.44+000	3.21-003	1.60+000	3.81-002						
8	4.0447-001	1.03+00	-5.69-002	1.44+000	3.21-003	1.61+000	3.82-002						
9	4.0447-001	1.41+00	-5.69-002	1.44+000	3.21-003	1.61+000	3.82-002						
10	4.0447-001	1.08+00	-5.69-002	1.44+000	3.21-003	1.61+000	3.82-002						

END OF FIT TO RAW DATA, START OF FIT TO TRANSFORMS

ITR	VARIANCE	DAMPING μ	BASELINE	ALPHA	LAMBDA	ALPHA	LAMBDA	ALPHA	LAMBDA	ALPHA	LAMBDA	ALPHA	LAMBDA
0	1.4661-001	0.00	-5.22-002	1.42+000	3.21-003	1.60+000	3.82-002						
1	4.1322-004	9.97-01	-2.83-002	1.49+000	3.53-003	1.24+000	3.27-002						
2	1.0495-007	1.00+00	-2.90-002	1.48+000	3.52-003	1.23+000	3.22-002						

TEST DATA SET 2 - WITH INCORRECT WEIGHTING AND MOST COMPREHENSIVE OUTPUT
 INITIAL ANALYSIS OF THE RAW DATA AND THEN THE TRANSFORMS - ASSUMING 3 COMPONENTS

FIT USING STARTING SET 1

ITR	VARIANCE	DAMPING Q	BASELINE	ALPHA	LAMBDA	ALPHA	LAMBDA	ALPHA	LAMBDA	ALPHA	LAMBDA
0	4.1791-001	0.00	-4.14-002	1.59+000	3.52-003	-3.42-001	1.06-002	1.70+000	3.22-002		
1	3.9677-001	4.07-01	-7.10-002	1.33+000	2.95-003	3.51-001	1.26-002	1.34+000	4.03-002		
2	3.8740-001	4.10-01	-8.23-002	1.21+000	2.72-003	5.65-001	9.71-003	1.34+000	4.91-002		
3	3.8292-001	6.71-01	-8.84-002	1.24+000	2.69-003	8.00-001	1.53-002	1.14+000	6.42-002		
4	3.7950-001	1.00+00*	-9.62-002	1.17+000	2.55-003	9.15-001	1.17-002	1.19+000	8.07-002		
5	3.7945-001	1.00+00*	-9.81-002	1.17+000	2.53-003	9.36-001	1.18-002	1.18+000	8.27-002		
6	3.7945-001	1.02+00	-9.80-002	1.17+000	2.53-003	9.36-001	1.18-002	1.18+000	8.28-002		
7	3.7945-001	1.03+00	-9.80-002	1.17+000	2.53-003	9.36-001	1.18-002	1.18+000	8.28-002		
8	3.7945-001	1.02+00	-9.80-002	1.17+000	2.53-003	9.36-001	1.18-002	1.18+000	8.28-002		

END OF FIT TO RAW DATA, START OF FIT TO TRANSFORMS

ITR	VARIANCE	DAMPING Q	BASELINE	ALPHA	LAMBDA	ALPHA	LAMBDA	ALPHA	LAMBDA	ALPHA	LAMBDA
0	5.5139-003	0.00	-9.76-002	1.17+000	2.53-003	9.44-001	1.18-002	1.17+000	8.28-002		
1	5.1603-004	6.94-01	-8.13-002	1.23+000	2.74-003	8.81-001	1.30-002	1.11+000	8.22-002		
2	2.4460-005	1.00+00*	-7.74-002	1.25+000	2.80-003	8.77-001	1.38-002	1.07+000	8.29-002		
3	3.7349-011	1.00+00	-7.78-002	1.25+000	2.79-003	8.81-001	1.38-002	1.07+000	8.31-002		

TEST DATA SET 2 - WITH INCORRECT WEIGHING AND MOST COMPREHENSIVE OUTPUT

INITIAL ANALYSIS OF THE RAW DATA AND THEN THE TRANSFORMS - ASSUMING 4 COMPONENTS

FIT USING STARTING SET 1

ITER	VARIANCE	DAMPING Q	BASELINE	ALPHA	LAMBDA	ALPHA	LAMBDA	ALPHA	LAMBDA	ALPHA	LAMBDA	ALPHA	LAMBDA
0	3.8048-001	0.00	-7.96-002	1.26+000	2.79-003	8.60-001	1.38-002	-4.54-003	3.39-002	1.14+000	8.31-002	1.14+000	8.31-002
1	3.8009-001	2.55-01	-8.49-002	1.22+000	2.70-003	7.80-001	1.19-002	2.79-001	3.83-002	9.86-001	8.92-002	9.86-001	8.92-002
2	3.7942-001	5.62-01	-9.58-002	1.16+000	2.54-003	6.90-001	1.00-002	3.98-001	2.43-002	1.04+000	9.20-002	1.04+000	9.20-002
3	3.7935-001	1.92-01	-9.64-002	1.16+000	2.54-003	7.96-001	1.03-002	3.21-001	3.06-002	1.01+000	9.45-002	1.01+000	9.45-002
4	3.7934-001	8.00-02*	-9.81-002	1.15+000	2.51-003	7.37-001	1.03-002	3.47-001	2.44-002	1.06+000	9.22-002	1.06+000	9.22-002
5	3.7932-001	9.63-02	-9.82-002	1.15+000	2.52-003	7.90-001	1.07-002	3.13-001	2.82-002	1.03+000	9.35-002	1.03+000	9.35-002
6	3.7931-001	8.00-02*	-9.93-002	1.15+000	2.50-003	7.63-001	1.03-002	3.36-001	2.58-002	1.05+000	9.28-002	1.05+000	9.28-002

END OF FIT TO RAW DATA, START OF FIT TO TRANSFORMS

ITER	VARIANCE	DAMPING Q	BASELINE	ALPHA	LAMBDA	ALPHA	LAMBDA	ALPHA	LAMBDA	ALPHA	LAMBDA	ALPHA	LAMBDA
0	5.6734-002	0.00	-9.80-002	1.14+000	2.50-003	7.82-001	1.03-002	3.10-001	2.58-002	1.04+000	9.28-002	1.04+000	9.28-002
1	3.6324-002	1.32-02	-1.00-001	1.12+000	2.46-003	7.28-001	9.70-003	3.64-001	2.22-002	1.06+000	9.24-002	1.06+000	9.24-002
2	3.5939-002	1.15-02	-1.03-001	1.10+000	2.41-003	6.67-001	8.96-003	4.39-001	1.99-002	1.08+000	9.23-002	1.08+000	9.23-002
3	3.5627-002	1.08-02	-1.06-001	1.07+000	2.35-003	6.13-001	8.11-003	5.24-001	1.83-002	1.09+000	9.24-002	1.09+000	9.24-002
4	3.5338-002	6.66-03	-1.09-001	1.04+000	2.30-003	5.92-001	7.53-003	5.75-001	1.77-002	1.09+000	9.25-002	1.09+000	9.25-002
5	3.5149-002	5.19-03	-1.12-001	1.01+000	2.25-003	5.86-001	7.06-003	6.11-001	1.73-002	1.09+000	9.26-002	1.09+000	9.26-002
6	3.5044-002	4.26-03	-1.15-001	9.84-001	2.25-003	5.90-001	6.69-003	6.38-001	1.71-002	1.09+000	9.27-002	1.09+000	9.27-002

VARIANCE DID NOT SIGNIFICANTLY DECREASE IN THE LAST 4 TIMES.

T00 SLOW*T00 SLOW***T00 SLOW***T00 SLOW***T00 SLOW***T00 SLOW***T00 SLOW

FIT USING STARTING SET 2

ITER	VARIANCE	DAMPING Q	BASELINE	ALPHA	LAMBDA	ALPHA	LAMBDA	ALPHA	LAMBDA	ALPHA	LAMBDA	ALPHA	LAMBDA
0	3.8015-001	0.00	-1.13-001	7.03-001	2.00-003	6.04-001	3.85-003	9.20-001	1.42-002	1.11+000	1.00-001	1.11+000	1.00-001
1	3.8005-001	1.00-02*	-1.00-001	1.01+000	2.40-003	2.78-001	4.63-003	9.27-001	1.43-002	1.10+000	1.00-001	1.10+000	1.00-001
2	3.8003-001	4.31-03	-9.57-002	1.13+000	2.52-003	1.71-001	5.68-003	9.19-001	1.44-002	1.10+000	1.00-001	1.10+000	1.00-001
3	3.7999-001	2.51-02	-9.33-002	1.18+000	2.58-003	1.50-001	7.24-003	8.89-001	1.46-002	1.10+000	9.97-002	1.10+000	9.97-002
4	3.7994-001	5.01-02	-9.20-002	1.20+000	2.62-003	2.98-001	1.03-002	7.12-001	1.52-002	1.10+000	9.92-002	1.10+000	9.92-002
5	3.7990-001	3.67-02	-9.24-002	1.20+000	2.62-003	5.10-001	1.15-002	4.98-001	1.61-002	1.10+000	9.89-002	1.10+000	9.89-002
6	3.7959-001	2.27-01	-9.60-002	1.17+000	2.55-003	6.18-001	1.04-002	4.39-001	1.93-002	1.08+000	9.72-002	1.08+000	9.72-002
7	3.7954-001	8.44-02	-9.64-002	1.17+000	2.55-003	7.33-001	1.10-002	3.27-001	2.19-002	1.07+000	9.71-002	1.07+000	9.71-002
8	3.7928-001	6.72-01	-1.03-001	1.12+000	2.44-003	7.97-001	9.92-003	3.97-001	3.06-002	9.82-001	9.60-002	9.82-001	9.60-002
9	3.7927-001	8.00-02*	-1.04-001	1.12+000	2.43-003	7.80-001	9.72-003	3.94-001	2.83-002	1.01+000	9.45-002	1.01+000	9.45-002
10	3.7927-001	5.82-01	-1.04-001	1.12+000	2.43-003	8.01-001	9.89-003	3.72-001	2.96-002	1.00+000	9.41-002	1.00+000	9.41-002
11	3.7927-001	7.05-02	-1.04-001	1.11+000	2.42-003	7.92-001	9.78-003	3.73-001	2.84-002	1.02+000	9.35-002	1.02+000	9.35-002

END OF FIT TO RAW DATA, START OF FIT TO TRANSFORMS

ITER	VARIANCE	DAMPING Q	BASELINE	ALPHA	LAMBDA	ALPHA	LAMBDA	ALPHA	LAMBDA	ALPHA	LAMBDA	ALPHA	LAMBDA
0	3.2880-002	0.00	-1.03-001	1.11+000	2.42-003	8.04-001	9.78-003	3.54-001	2.84-002	1.01+000	9.35-002	1.01+000	9.35-002
1	3.2225-002	1.89-02	-1.07-001	1.09+000	2.37-003	7.65-001	9.13-003	3.89-001	2.41-002	1.04+000	9.26-002	1.04+000	9.26-002
2	3.1722-002	1.61-02	-1.11-001	1.03+000	2.30-003	7.25-001	8.39-003	4.49-001	2.14-002	1.06+000	9.24-002	1.06+000	9.24-002
3	3.1333-002	1.36-02	-1.16-001	1.01+000	2.23-003	6.99-001	7.65-003	5.14-001	1.99-002	1.07+000	9.25-002	1.07+000	9.25-002
4	3.1044-002	9.73-03	-1.20-001	9.75-001	2.15-003	6.95-001	7.08-003	5.69-001	1.91-002	1.08+000	9.26-002	1.08+000	9.26-002
5	3.0820-002	6.92-03	-1.24-001	9.41-001	2.08-003	7.03-001	6.68-003	5.91-001	1.86-002	1.08+000	9.28-002	1.08+000	9.28-002
6	3.0634-002	5.75-03	-1.28-001	9.07-001	2.01-003	7.17-001	6.34-003	6.15-001	1.83-002	1.08+000	9.29-002	1.08+000	9.29-002
7	3.0476-002	4.96-03	-1.33-001	8.74-001	1.95-003	7.36-001	6.06-003	6.34-001	1.81-002	1.08+000	9.30-002	1.08+000	9.30-002

VARIANCE DID NOT SIGNIFICANTLY DECREASE IN THE LAST 4 TIMES. **T00 SLOW**T00 SLOW**T00 SLOW**T00 SLOW**T00 SLOW**T00 SLOW

FIT USING STARTING SET 3

Table with 13 columns: ITR, VARIANCE, DAMPING Q, BASELINE, ALPHA, LAMBDA, ALPHA, LAMBDA, ALPHA, LAMBDA, ALPHA, LAMBDA, ALPHA, LAMBDA. Contains 13 rows of fit parameters.

FIT USING STARTING SET 4

Table with 13 columns: ITR, VARIANCE, DAMPING Q, BASELINE, ALPHA, LAMBDA, ALPHA, LAMBDA, ALPHA, LAMBDA, ALPHA, LAMBDA, ALPHA, LAMBDA. Contains 13 rows of fit parameters.

FIT USING STARTING SET 5

Table with 13 columns: ITR, VARIANCE, DAMPING Q, BASELINE, ALPHA, LAMBDA, ALPHA, LAMBDA, ALPHA, LAMBDA, ALPHA, LAMBDA, ALPHA, LAMBDA. Contains 13 rows of fit parameters.

TEST DATA SET 2 - WITH INCORRECT WEIGHTING AND MOST COMPREHENSIVE OUTPUT

PRELIMINARY ANALYSIS TO DETERMINE WEIGHTS
ANALYSIS ASSUMING 1 COMPONENTS

ITER	VARIANCE	DAMPING	BASELINE	ALPHA	LAMBDA	ALPHA	LAMBDA	ALPHA	LAMBDA	ALPHA	LAMBDA
0	2.0350+000	0.00	-6.65-002	2.29+000	4.45-003						
1	1.2618+000	1.27+00	1.02-001	2.33+000	7.18-003						
2	1.1574+000	1.52+00	1.52-001	2.38+000	8.86-003						
3	1.1518+000	1.90+00	1.65-001	2.39+000	9.40-003						
4	1.1517+000	2.03+00	1.66-001	2.40+000	9.44-003						
5	1.1517+000	2.04+00	1.66-001	2.40+000	9.44-003						
6	1.1517+000	4.00+00	1.66-001	2.40+000	9.44-003						

CORRELATION COEFFICIENTS

LAMB1 .367
ALP1 .531
BASE -.272

STANDARD DEVIATION OF FIT = SIGY = 1.76432-01

LAMBDA	ALPHA	STD. ERROR	PERCENT
9.4412-003	2.3956+000	8.692-02	3.628
BASELINE	1.6587-001	4.089-02	24.650

TEST DATA SET 2 - WITH INCORRECT WEIGHTING AND MOST COMPREHENSIVE OUTPUT

PRELIMINARY ANALYSIS TO DETERMINE WEIGHTS
ANALYSIS ASSUMING 2 COMPONENTS

ITER	VARIANCE	DAMPING Q	BASELINE	ALPHA	LAMBDA	ALPHA	LAMBDA	ALPHA	LAMBDA	ALPHA	LAMBDA
0	9.0627-002	0.00	-5.54-002	1.43+000	3.21-003	1.65+000	3.82-002				
1	5.1834-002	1.13+00	1.31-002	1.60+000	4.17-003	1.49+000	5.13-002				
2	4.2909-002	1.13+00	5.93-003	1.66+000	4.18-003	1.48+000	5.87-002				
3	4.2728-002	1.35+00	9.17-003	1.67+000	4.24-003	1.47+000	6.04-002				
4	4.2728-002	1.25+00	9.38-003	1.68+000	4.25-003	1.47+000	6.05-002				
5	4.2728-002	1.14+00	9.36-003	1.68+000	4.25-003	1.47+000	6.05-002				
6	4.2728-002	1.25+00	9.38-003	1.68+000	4.25-003	1.47+000	6.05-002				

CORRELATION COEFFICIENTS

	LAM1	LAM2	ALP1	ALP2
LAM2	.645			
ALP1	.623	.827		
ALP2	-.683	-.482	-.732	
BASE	.843	.404	.229	-.462

STANDARD DEVIATION OF FIT = SIGVY = 3.49398-02

	LAMBDA	ALPHA	STD. ERROR	PERCENT
BASELINE	4.2463-003	1.6754+000	3.920-02	2.340
	6.0475-002	1.4687+000	4.854-02	3.305
		9.3815-003	1.660-02	176.979

TEST DATA SET 2 - WITH INCORRECT WEIGHTING AND MOST COMPREHENSIVE OUTPUT

PRELIMINARY ANALYSIS TO DETERMINE WEIGHTS
ANALYSIS ASSUMING 3 COMPONENTS

ITR	VARIANCE	DAMPING Q	BASELINE	ALPHA	LAMBDA	ALPHA	LAMBDA	ALPHA	LAMBDA	ALPHA	LAMBDA
0	2.4532-002	0.00	-9.77-002	1.17+000	2.53-003	9.39-001	1.18-002	1.18+000	8.28-002		
1	2.4470-002	9.51-01	-8.29-002	1.22+000	2.72-003	8.94-001	1.30-002	1.15+000	8.45-002		
2	2.4462-002	1.00+00*	-8.39-002	1.23+000	2.72-003	8.95-001	1.32-002	1.14+000	8.48-002		
3	2.4462-002	9.46-01	-8.39-002	1.23+000	2.72-003	8.95-001	1.32-002	1.14+000	8.48-002		
4	2.4462-002	9.82-01	-8.39-002	1.23+000	2.72-003	8.95-001	1.32-002	1.14+000	8.48-002		
5	2.4462-002	9.52-01	-8.39-002	1.23+000	2.72-003	8.95-001	1.32-002	1.14+000	8.48-002		

CORRELATION COEFFICIENTS

	LAM1	LAM2	LAM3	ALP1	ALP2	ALP3
LAM2	.884					
LAM3	.480	.708				
ALP1	.947	.963	.573			
ALP2	-.915	-.711	-.147	-.861		
ALP3	-.653	-.898	-.842	-.763	.359	
BASE	.971	.786	.403	.850	-.883	-.555

STANDARD DEVIATION OF FIT = SIGY = 2.72265-02

LAMBDA	+-	STD. ERROR	PERCENT	ALPHA	+-	STD. ERROR	PERCENT
2.7174-003	+-	6.623-04	25.106	1.2295+000	+-	2.030-01	16.508
1.3205-002	+-	4.732-03	35.834	8.9518-001	+-	1.827-01	20.413
8.4816-002	+-	1.016-02	11.978	1.1436+000	+-	1.207-01	10.556
BASELINE				-8.3896-002	+-	5.747-02	68.499

TEST DATA SET 2 - WITH INCORRECT W/FIGHTING AND MOST COMPREHENSIVE OUTPUT

PRELIMINARY ANALYSIS TO DETERMINE WEIGHTS
ANALYSIS ASSUMING 4 COMPONENTS

ITR	VARIANCE	DAMPING Q	BASELINE	ALPHA	LAMBDA	ALPHA	LAMBDA	ALPHA	LAMBDA	ALPHA	LAMBDA
0	2.4851-002	0.00	1.01+001	-2.54+001	2.11-004	1.61+001	4.30-004	1.16+000	9.58-003	1.22+000	7.96-002
1	2.4742-002	1.08+00	1.19+001	-2.96+001	2.11-004*	1.85+001	4.30-004*	1.14+000	1.03-002	1.19+000	8.21-002
2	2.4742-002	1.07+00	1.19+001	-2.96+001	2.11-004*	1.85+001	4.30-004*	1.14+000	1.03-002	1.19+000	8.21-002
3	2.4742-002	1.00+00	1.20+001	-2.96+001	2.11-004*	1.85+001	4.30-004*	1.14+000	1.03-002	1.19+000	8.21-002
4	2.4742-002	1.06+00	1.20+001	-2.96+001	2.11-004*	1.85+001	4.30-004*	1.14+000	1.03-002	1.19+000	8.21-002

PARAMETERS USED TO GENERATE WEIGHTS FOR RAW DATA

LAMBDA	ALPHA
2.717-03	1.229+00
1.720-02	8.952-01
8.482-02	1.144+00

ERRFIT (UNCERTAINTY TERM ADDED TO ABSOLUTE VALUES OF THEORETICAL CURVE) = 3.05-02

TEST DATA SET 2 - WITH INCORRECT WEIGHTING AND MOST COMPREHENSIVE OUTPUT

FINAL ANALYSIS ASSUMING 1 COMPONENTS

ITR	VARIANCE	DAMPING Q	BASELINE	ALPHA	LAMBDA	ALPHA	LAMBDA	ALPHA	LAMBDA	ALPHA	LAMBDA
0	1.0415+000	0.00	2.47-002	2.13+000	5.24-003						
1	9.0400-001	1.26+00	-5.93-003	1.95+000	4.39-003						
2	9.0286-001	1.20+00	-3.00-003	1.97+000	4.45-003						
3	9.0286-001	1.20+00	-2.98-003	1.97+000	4.45-003						
4	9.0286-001	1.00+00*	-2.98-003	1.97+000	4.45-003						
5	9.0286-001	1.00+00*	-2.98-003	1.97+000	4.45-003						

CORRELATION COEFFICIENTS

LAM1 .634
 ALP1 .634
 BASE .832 .308

NPHI = 1.255-03
 STANDARD DEVIATION OF FIT = SIGYY = 1.56210-01

LAMBDA	+-	STD. ERROR	PERCENT	ALPHA	+-	STD. ERROR	PERCENT
4.4546-003	+-	2.852-04	6.403	1.9694+000	+-	9.996-02	5.076
BASELINE				-2.9833-003	+-	1.469-02	492.316

TEST DATA SET 2 - WITH INCORRECT WEIGHTING AND MOST COMPREHENSIVE OUTPUT

FINAL ANALYSIS ASSUMING 2 COMPONENTS

ITR	VARIANCE	DAMPING Q	BASELINE	ALPHA	LAMBDA	ALPHA	LAMBDA	ALPHA	LAMBDA	ALPHA	LAMBDA
0	4.3324-001	0.00	-3.57-002	1.51+000	3.52-003	1.33+000	3.22-002				
1	4.0468-001	1.06+00	-5.97-002	1.43+000	3.16-003	1.61+000	3.69-002				
2	4.0448-001	1.31+00	-5.67-002	1.44+000	3.21-003	1.60+000	3.80-002				
3	4.0447-001	1.15+00	-5.69-002	1.44+000	3.21-003	1.61+000	3.81-002				
4	4.0447-001	1.31+00	-5.69-002	1.44+000	3.21-003	1.61+000	3.82-002				
5	4.0447-001	1.15+00	-5.69-002	1.44+000	3.21-003	1.61+000	3.82-002				

CORRELATION COEFFICIENTS

	LAM1	LAM2	ALP1	ALP2
LAM2	.540			
ALP1	.843	.629		
ALP2	-.300	.356	-.307	
BASE	.941	.432	.652	-.256

NPHI = 2.5045-02

STANDARD DEVIATION OF FIT = SIGY = 1.07501-01

LAMBDA	ALPHA	STU. ERROR	PERCENT
3.2080-003	1.4442+000	1.073-01	7.432
3.8187-002	1.6060+000	2.455-01	15.289
BASELINE	-5.6861-002	2.269-02	39.900

TEST DATA SET 2 - WITH INCORRECT WEIGHTING AND MOST COMPREHENSIVE OUTPUT

FINAL ANALYSIS ASSUMING 3 COMPONENTS

ITP	VARIANCE	DAMPING G	BASILINE	ALPHA	LAMBDA	ALPHA	LAMBDA	ALPHA	LAMBDA	ALPHA	LAMBDA	PERCENT
0	3.8048-001	0.00	-7.96-002	1.26+000	2.79-003	8.58-001	1.38-002	1.14+000	8.31-002	1.14+000	8.31-002	35.835
1	3.7961-001	8.73-01	-9.29-002	1.18+000	2.59-003	9.08-001	1.19-002	1.19+000	8.27-002	1.19+000	8.27-002	43.471
2	3.7945-001	1.00+00*	-9.81-002	1.17+000	2.53-003	9.36-001	1.18-002	1.18+000	8.28-002	1.18+000	8.28-002	43.364
3	3.7945-001	1.03+00	-9.80-002	1.17+000	2.53-003	9.36-001	1.18-002	1.18+000	8.28-002	1.18+000	8.28-002	80.682
4	3.7945-001	1.02+00	-9.80-002	1.17+000	2.53-003	9.36-001	1.18-002	1.18+000	8.28-002	1.18+000	8.28-002	
5	3.7945-001	1.03+00	-9.80-002	1.17+000	2.53-003	9.36-001	1.18-002	1.18+000	8.28-002	1.18+000	8.28-002	

CORRELATION COEFFICIENTS

	LAM1	LAM2	LAM3	ALP1	ALP2	ALP3
LAM2	.875					
LAM3	.616	.648				
ALP1	.972	.937	.474			
ALP2	-.443	-.053	.521	-.364		
ALP3	-.530	-.734	-.525	-.594	-.293	
BASE	.983	.802	.361	.916	-.476	-.470

NPFI = 6.229-01

STANDARD DEVIATION OF FIT = SIGY = 1.07231-01

LAMBDA	ALPHA	STD. ERROR	PERCENT
2.531-003	1.1687+000	4.188-01	35.835
1.1842-002	9.3600-001	4.069-01	43.471
8.2792-002	1.1778+000	5.108-01	43.364
BASILINE	-9.8013-002	7.908-02	80.682

TEST DATA SET 2 - WITH INCORRECT WEIGHTING AND MOST COMPREHENSIVE OUTPUT

FINAL ANALYSIS ASSUMING 4 COMPONENTS

ITR	VARIANCE	DAMPING Q	BASELINE	ALPHA	LAMBDA	ALPHA	LAMBDA	ALPHA	LAMBDA	ALPHA	LAMBDA
0	3.7974-001	0.00	-1.34-001	8.77-001	1.95-003	7.31-001	6.06-003	6.44-001	1.81-002	1.08+000	9.30-002
1	3.7950-001	2.33-02	-1.19-001	9.89-001	2.18-003	6.79-001	7.15-003	5.85-001	1.96-002	1.06+000	9.37-002
2	3.7933-001	4.50-02	-1.06-001	1.10+000	2.39-003	7.06-001	9.00-003	4.64-001	2.32-002	1.04+000	9.53-002
3	3.7930-001	5.38-02	-1.04-001	1.12+000	2.43-003	7.59-001	9.71-003	4.05-001	2.62-002	1.02+000	9.64-002
4	3.7929-001	1.40-01	-1.03-001	1.13+000	2.45-003	7.92-001	1.00-002	3.80-001	2.88-002	1.00+000	9.69-002
5	3.7929-001	1.56-01	-1.04-001	1.12+000	2.43-003	7.74-001	9.79-003	3.86-001	2.67-002	1.02+000	9.53-002
6	3.7928-001	1.70-01	-1.03-001	1.12+000	2.44-003	8.00-001	1.00-002	3.70-001	2.91-002	1.01+000	9.59-002

CORRELATION COEFFICIENTS

	LAM1	LAM2	LAM3	LAM4	ALP1	ALP2	ALP3	ALP4
LAM2	.934							
LAM3	.721	.888						
LAM4	.472	.030	.864					
ALP1	.991	.967	.772	.514				
ALP2	.744	.926	.974	.761	.804			
ALP3	-.696	-.672	-.319	.119	-.710	-.493		
ALP4	-.565	-.739	-.953	-.951	-.613	-.871	.032	
BASE	.991	.887	.663	.427	.965	.677	-.669	-.513

NPFI = .1423+02

STANDARD DEVIATION OF FIT = SIGY = 1.10612-01

LAMBDA	+-	STD. ERROR	PERCENT	ALPHA	+-	STD. ERROR	PERCENT
2.4409-003	+-	3.021-03	123.744	1.1240+000	+-	1.472+00	130.928
1.0945-002	+-	5.085-02	506.256	8.0003-001	+-	4.419+00	552.398
2.9143-002	+-	5.117-01	1755.702	3.7015-001	+-	3.245+00	876.769
9.5860-002	+-	2.760-01	287.871	1.0053+000	+-	4.683+00	465.867
BASELINE				-1.0350-001	+-	1.843-01	178.054

DISCRETE - VERSION 1H (APRIL 1976)

TEST DATA SET 2 - WITH INCORRECT WEIGHTING AND MOST COMPREHENSIVE OUTPUT

BEST SOLUTION 2 COMPONENTS

+++++ NOTE - THE APPROX. PROBABILITY THAT THIS SOLUTION IS ACTUALLY BEST IS ONLY .581. LOOK AT SECOND BEST SOLUTION ALSO. +++++

* ALPHA +- STD ERR PERCENT LAMBDA +- STD ERR PERCENT *
* 1.444+00 +- 1.1-01 7.432 3.208-03 +- 3.2-04 10.053 *
* 1.606+00 +- 2.5-01 15.289 3.819-02 +- 9.6-03 25.063 *
* -5.686-02 +- 2.3-02 39.900 +- 0.0 .000 *

ITERATIONS IN FIT = 5 STD. DEV. OF FIT = 1.0750-01 SIGNAL/NOISE RATIO OF FIT =
LAGS HELD BETWEEN 2.11-04 AND 4.16-01 NPHI = 2.51-02

LAG
PROB. RESIDUALS UNCORRELATED K = 1 K = 2 K = 3 K = 4 K = 5
.990 .737 .730 .000 .122
WEIGHTED AVERAGE = * PUNC = .712 *

SECOND BEST SOLUTION 3 COMPONENTS - A SIGNIFICANT POSSIBILITY ++++++

* ALPHA +- STD ERR PERCENT LAMBDA +- STD ERR PERCENT *
* 1.169+00 +- 4.2-01 35.835 2.533-03 +- 1.1-03 42.853 *
* 9.360-01 +- 4.1-01 43.471 1.184-02 +- 1.0-02 88.054 *
* 1.173+00 +- 5.1-01 43.364 8.279-02 +- 6.3-02 76.067 *
* -9.801-02 +- 7.9-02 80.682 0.000 +- 0.0 .000 *

STARTING LAMBDA (FROM FIT TO TRANSFORMS - 1 TRIES)
2.793-03
1.383-02
8.313-02

PNG(3/2) = .581 NPHI = 6.23-01 (UNCORRECTED PNG WOULD BE .349)
ITERATIONS IN FIT = 5 STD. DEV. OF FIT = 1.0723-01 SIGNAL/NOISE RATIO OF FIT =

LAG
PROB. RESIDUALS UNCORRELATED K = 1 K = 2 K = 3 K = 4 K = 5
.651 .517 .880 .000 .165
WEIGHTED AVERAGE = * PUNC = .541 *

THIRD BEST SOLUTION 4 COMPONENTS

* ALPHA +- STD ERR PERCENT LAMBDA +- STD ERR PERCENT *
* 1.124+00 +- 1.5+00 130.928 2.441-03 +- 3.0-03 123.744 *
* 6.000-01 +- 4.4+00 552.398 1.004-02 +- 5.1-02 506.256 *
* 3.702-01 +- 3.2+00 876.769 2.914-02 +- 5.1-01 1755.702 *
* 1.005+00 +- 4.7+00 465.867 9.586-02 +- 2.8-01 287.871 *
* -1.035-01 +- 1.8-01 178.054 0.000 +- 0.0 .000 *

STARTING LAMBDA (FROM FIT TO TRANSFORMS - 5 TRIES)
1.948-03 (NO EXACT FIT TO THE TRANSFORMS FOUND)
6.063-03 (NO EXACT FIT TO THE TRANSFORMS FOUND)
1.811-02 (NO EXACT FIT TO THE TRANSFORMS FOUND)
9.301-02 (NO EXACT FIT TO THE TRANSFORMS FOUND)

PNG(4/2) = 1.000 NPHI = 1.42+02 (UNCORRECTED PNG WOULD BE .725)
ITERATIONS IN FIT = 6 STD. DEV. OF FIT = 1.1061-01 SIGNAL/NOISE RATIO OF FIT =

LAG
PROB. RESIDUALS UNCORRELATED K = 1 K = 2 K = 3 K = 4 K = 5
.644 .514 .883 .000 .169
WEIGHTED AVERAGE = * PUNC = .538 *

