

hw7_gen_hpa

sig =

1e-05

xyzt =

1921.8	726.42	591.72
1900.9	710.91	513.92
1981.7	722.3	594.19
1916.8	713.28	534.13
1937.1	748.77	548.13
1894.5	727.97	562.49
1884.1	737.68	587.2
1974.5	743.46	573.27
1953.7	758.52	583.77
1934.4	737.78	514.21
1909.8	740.96	579.2
1921.2	723.9	603.46
1900.8	699.6	576.08
1965.6	748.58	517.63
1971.5	740.57	539.16
1893.2	693.93	597.76
1946.1	733.84	564.51
1879.5	733.88	526.25
1906.1	721.64	570.36
1937.6	722.85	572.78

ans =

588.23	2041.7	126.29
510.43	2017.2	117.65
590.7	2097.7	104.65
530.64	2033	115.23
544.64	2062.9	143.12
559	2016.1	135.85
583.71	2009	148.2
569.78	2097.1	126.99
580.28	2081.7	147.53
510.72	2057.1	133.4
575.71	2034.6	143.71
599.97	2040.4	124.06
572.59	2013.7	106.87
514.14	2090.1	134.51
535.67	2093.4	125.11
594.27	2004.7	103.73
561.02	2067.2	126.18
522.76	2003.5	145.93
566.87	2025.3	126.37
569.29	2055.7	118.21

B =

-750.32	335.07	-734.67	-1	0	0
1901.8	-461.18	1914.6	0	-1	0
69.128	-531.02	0	0	0	-1
-734.53	289.35	-721.07	-1	0	0
1881.1	-398.26	1892.4	0	-1	0
68.222	-528.96	0	0	0	-1
-747.02	335.74	-731.34	-1	0	0
1961.7	-462.1	1974.6	0	-1	0
70.754	-568.98	0	0	0	-1
-737.12	301.07	-723.1	-1	0	0
1896.9	-414.39	1908.6	0	-1	0
68.722	-536.86	0	0	0	-1
-772.87	309.65	-758.46	-1	0	0
1916.7	-426.2	1928.7	0	-1	0
70.014	-520.06	0	0	0	-1
-751.49	318.24	-736.66	-1	0	0
1874.4	-438.02	1886.7	0	-1	0
68.381	-513.01	0	0	0	-1
-761.06	333.04	-745.52	-1	0	0
1863.9	-458.4	1876.7	0	-1	0
68.28	-499.94	0	0	0	-1
-768.08	323.89	-752.98	-1	0	0
1954.2	-445.79	1966.7	0	-1	0
70.975	-546.83	0	0	0	-1
-782.85	330.55	-767.44	-1	0	0
1933.2	-454.97	1945.9	0	-1	0
70.684	-522.91	0	0	0	-1
-761.84	289.57	-748.39	-1	0	0
1914.2	-398.56	1925.5	0	-1	0
69.718	-526.33	0	0	0	-1
-764.69	328.09	-749.39	-1	0	0
1889.6	-451.58	1902.2	0	-1	0
69.081	-511.84	0	0	0	-1

```

list2
-747.79      341.92      -731.81      -1          0          0
1901.2       -470.62      1914.3       0          -1         0
69.061       -533.15      0            0          0        -1
-723.22      325.68      -708.01      -1         0          0
1881.2       -448.26      1893.7       0          -1         0
67.991       -540.31      0            0          0        -1
-773.08      291.4       -759.54      -1         0          0
1945.2       -401.07      1956.6       0          -1         0
70.824       -535.57      0            0          0        -1
-765.15      303.84      -751.01      -1         0          0
1951.3       -418.2       1963.1       0          -1         0
70.832       -546.28      0            0          0        -1
-717.45      338.41      -701.62      -1         0          0
1873.6       -465.78      1886.6       0          -1         0
67.659       -541.27      0            0          0        -1
-758.07      318.91      -743.2       -1         0          0
1926         -438.95      1938.3       0          -1         0
69.972       -538.05      0            0          0        -1
-757.2       297.23      -743.37      -1         0          0
1859.4       -409.1       1870.9       0          -1         0
68.072       -498.28      0            0          0        -1
-745.33      322.62      -730.27      -1         0          0
1886.1       -444.05      1898.5       0          -1         0
68.584       -525.13      0            0          0        -1
-746.96      323.69      -731.86      -1         0          0
1917.6       -445.52      1930.1       0          -1         0
69.507       -542.37      0            0          0        -1

ft =
Columns 1 through 7
1.8433      11.253      -18.675      0.46558      13.16      -18.65      1.9319
Columns 8 through 14
12.039      -19.999      0.8429      12.814      -18.914      0.63885      12.69
Columns 15 through 21
-18.319      1.2307      11.689      -18.064      1.608      10.838      -17.593
Columns 22 through 28
1.2157      12.516      -19.238      1.2316      11.916      -18.397      0.094141
Columns 29 through 35
13.616      -18.559      1.3912      11.429      -18.013      2.1186      10.914
Columns 36 through 42
-18.742      1.8954      11.409      -19.009      0.0071494      13.958      -18.879
Columns 43 through 49
0.55642      13.439      -19.24      2.4199      10.691      -19.029      1.1761
Columns 50 through 56
12.365      -18.937      0.41102      12.495      -17.572      1.4752      11.635
Columns 57 through 60
-18.482      1.4987      12.014      -19.083

parameter corrections
del =
0.0058735
0.03496
0.0079478
-0.38278
-0.99341
0.53577
condN =
3.4721e+10
niter =
1
parameter corrections
del =
0.00075952
-5.3158e-05
-0.00061821
0.12283
0.023254
-0.045829
condN =
3.6995e+12
niter =
2
parameter corrections
{•Warning: Matrix is close to singular or badly scaled. Results may be inaccurate. RCOND =
3.556145e-17.}•
{•> In <a href="matlab: opentoline('D:\Old_D\classes\data1_18\hw7_gen_hpa.m',128,1)">hw7_gen_hpa at
128</a>}•
del =
0.0029736
8.5593e-09
-0.0029735

```

list2

```
6.3838e-06
-5.3283e-06
7.6562e-05
condN =
2.0495e+16
niter =
3
parameter corrections
{•Warning: Matrix is close to singular or badly scaled. Results may be inaccurate. RCOND =
4.639313e-17.}•
{•> In <a href="matlab: opentoline('D:\Old_D\classes\data1_18\hw7_gen_hpa.m',128,1)">hw7_gen_hpa at
128</a>}•
del =
0.0016771
1.7692e-10
-0.0016771
5.8526e-08
-1.04e-07
-6.5493e-08
condN =
1.8227e+16
niter =
4
parameter corrections
{•Warning: Matrix is close to singular or badly scaled. Results may be inaccurate. RCOND =
1.617509e-16.}•
{•> In <a href="matlab: opentoline('D:\Old_D\classes\data1_18\hw7_gen_hpa.m',128,1)">hw7_gen_hpa at
128</a>}•
del =
0.00047782
1.004e-10
-0.0004778
3.1903e-08
-5.9599e-08
-3.1891e-08
condN =
9.8015e+15
niter =
5
parameter corrections
{•Warning: Matrix is close to singular or badly scaled. Results may be inaccurate. RCOND =
1.997847e-16.}•
{•> In <a href="matlab: opentoline('D:\Old_D\classes\data1_18\hw7_gen_hpa.m',128,1)">hw7_gen_hpa at
128</a>}•
del =
0.00038528
2.9935e-11
-0.00038529
6.7269e-09
-1.9116e-08
1.7937e-09
condN =
4.7154e+15
niter =
6
parameter corrections
{•Warning: Matrix is close to singular or badly scaled. Results may be inaccurate. RCOND =
3.917596e-18.}•
{•> In <a href="matlab: opentoline('D:\Old_D\classes\data1_18\hw7_gen_hpa.m',128,1)">hw7_gen_hpa at
128</a>}•
del =
0.019626
1.2675e-10
-0.019626
-1.7706e-07
-1.8044e-07
8.4218e-07
condN =
6.4241e+17
niter =
7
parameter corrections
{•Warning: Matrix is close to singular or badly scaled. Results may be inaccurate. RCOND =
3.783717e-17.}•
{•> In <a href="matlab: opentoline('D:\Old_D\classes\data1_18\hw7_gen_hpa.m',128,1)">hw7_gen_hpa at
128</a>}•
del =
-0.0020372
1.1331e-09
```

list2

```
0.0020372
4.5712e-07
-6.2797e-07
-7.512e-07
condN =
8.6775e+15
niter =
8
parameter corrections
{•Warning: Matrix is close to singular or badly scaled. Results may be inaccurate. RCOND =
9.844318e-18.}•
{•> In <a href="matlab: opentoline('D:\Old_D\classes\data1_18\hw7_gen_hpa.m',128,1)">hw7_gen_hpa at
128</a>}•
del =
-0.0074434
-1.5705e-10
0.0074434
1.8596e-08
1.2846e-07
-2.3093e-07
condN =
1.2937e+17
niter =
9
parameter corrections
{•Warning: Matrix is close to singular or badly scaled. Results may be inaccurate. RCOND =
7.848392e-18.}•
{•> In <a href="matlab: opentoline('D:\Old_D\classes\data1_18\hw7_gen_hpa.m',128,1)">hw7_gen_hpa at
128</a>}•
del =
-0.0093749
-4.8293e-10
0.0093749
-7.9662e-08
3.2347e-07
-1.4755e-07
condN =
5.1605e+16
niter =
10
parameter corrections
{•Warning: Matrix is close to singular or badly scaled. Results may be inaccurate. RCOND =
2.463169e-18.}•
{•> In <a href="matlab: opentoline('D:\Old_D\classes\data1_18\hw7_gen_hpa.m',128,1)">hw7_gen_hpa at
128</a>}•
del =
-0.030399
-7.0574e-10
0.030399
7.8028e-08
5.6489e-07
-1.0026e-06
condN =
2.0431e+16
niter =
11
we are diverging
diary off
```