"Error here="

5.35903950594e-06-4.3665521976e-08\*x-1.85271727959e-08\*y+2.08224038012e-08\*z+2.89215207228e-07\*x^4-2.96428321223e-07\*x^4\*z+2.81950975456e-07\*y^4-2.75641012015e-07\*y^4\*z-5.75017131688e-07\*z^2+6.20515719696e-07\*y\*z-1.07762260415e-06\*y\*z^2+1.03839876009e-07\*y^3-2.71265027885e-07\*y^3\*z+1.27118336968e-07\*y^3\*z^2-6.00358291969e-08\*y^2+1.20965894901e-06\*y^2\*z-7.95978531087e-07\*y^2\*z^2+1.2894994986e-07\*x^3-3.99451760891e-07\*x^3\*z+7.04010547538e-07\*x^3\*y-1.99388014638e-06\*x^3\*y\*z+9.20612659439e-08\*x^3\*z^2+3.22343188641e-07\*x^3\*y\*z^2-4.57630100481e-08\*x^2+1.26205486373e-06\*x^2\*z+2.61380508709e-07\*x^2\*y-2.94162707193e-06\*x^2\*y\*z+1.2833830301e-06\*x^2\*y^2-4.08943836858e-06\*x^2\*y^2\*z-8.71646058442e-07\*x^2\*z^2+2.23097840291e-06\*x^2\*y\*z^2+1.78975336462e-06\*x^2\*y^2\*z^2-2.59712293116e-07\*x\*y+6.21443199122e-07\*x\*z-1.03206888702e-06\*x\*z^2+4.7898506863e-06\*x\*y\*z-4.31924807287e-06\*x\*y\*z^2+7.59701345707e-07\*x\*y^3-2.01916307047e-06\*x\*y^3\*z+2.62592240119e-07\*x\*y^3\*z^2+3.08590201586e-07\*x\*y^2-2.95093119224e-06\*x\*y^2\*z+2.19543857938e-06\*x\*y^2\*z^2+8.13388997045e-07\*z^3+1.00872378361e-06\*x\*z^3+1.04093040942e-06\*y\*z^3-1.35466856399e-07\*z^4-3.76344937436e-08\*y\*z^4+9.07092125857e-08\*y^2\*z^3+9.42416900074e-08\*x^2\*z^3-3.56818323777e-08\*x\*z^4+5.8080291554e-07\*x\*y\*z^3+7.00131397302e-08\*y^2\*z^4+7.71603767546e-08\*y^4\*z^2-9.94310779545e-09\*y^3\*z^3-4.19240671068e-08\*x^2\*y\*z^3-7.17184745942e-10\*x\*y\*z^4-2.31814323848e-08\*x\*y^2\*z^3+7.12018008997e-08\*y^6+1.01186028445e-07\*y^5-1.0700930253e-08\*y^5\*z+4.63957696983e-08\*x^3\*y^3+4.82433985649e-07\*x^2\*y^3-3.64501415273e-07\*x^2\*y^3\*z+6.01865233207e-08\*x^2\*y^4+2.85272594325e-07\*x\*y^4-1.90986396031e-07\*x\*y^4\*z+8.94997231882e-09\*x\*y^5+4.97706856728e-07\*x^3\*y^2-3.50377219641e-07\*x^3\*y^2\*z+7.11878627158e-08\*x^6+1.12924908535e-07\*x^5-6.12885520113e-09\*x^5\*z+1.01577993933e-08\*x^5\*y+2.65624294671e-07\*x^4\*y+8.49807850756e-08\*x^4\*z^2-1.45561562359e-07\*x^4\*y\*z+6.9629616295e-08\*x^4\*y^2-1.04432500633e-08\*x^3\*z^3+6.96706644598e-08\*x^2\*z^4+7.97387467166e-09\*z^5

ans =

" 1. v,Q , v^T Q v ="

ans =

19×1 cell array

'1'

'z'

'y'

'x'

'z^2'

'y\*z'

'y^2'

'x\*z'

'x\*y'

'x^2'

'y\*z^2'

'y^2\*z'

'y^3'

'x\*z^2'

'x\*y\*z'

'x\*y^2'

'x^2\*z'

'x^2\*y'

'x^3'

ans =

Columns 1 through 18

0.6103 0.5813 -1.7142 -1.7174 -0.9380 -3.4962 0.3391 -3.4935 -0.2665 0.3359 0.3458 1.0183 -0.1415 0.3429 4.4282 1.3361 1.0156 1.3313

0.5813 1.9039 -3.9193 -3.9298 -0.1150 -6.9387 1.4502 -6.9304 7.2320 1.4466 -0.2647 2.3023 0.6359 -0.2643 10.2527 -1.1463 2.2975 -1.1513

-1.7142 -3.9193 12.6372 9.6627 2.2132 18.7023 -10.5845 21.3811 -11.2621 -1.5591 -0.7066 -6.9602 1.9022 0.5480 -28.3065 1.6547 -6.8745 -1.6908

-1.7174 -3.9298 9.6627 12.6567 2.2061 21.3928 -1.5400 18.7096 -11.3091 -10.6051 0.5521 -6.8775 -2.9049 -0.7052 -28.3194 -1.7093 -6.9674 1.6741

-0.9380 -0.1150 2.2132 2.2061 2.2177 4.7892 -1.0467 4.7966 4.9761 -1.0423 -0.9170 -1.4533 0.8192 -0.9106 -5.3846 -3.5898 -1.4553 -3.5848

-3.4962 -6.9387 18.7023 21.3928 4.7892 38.8842 -7.7675 34.1842 -17.3527 -12.8989 -0.4513 -12.1988 -1.2702 -0.7109 -50.9083 -3.8227 -12.6202 0.2287

0.3391 1.4502 -10.5845 -1.5400 -1.0467 -7.7675 21.4780 -12.8923 5.0438 -10.6555 2.4190 3.9094 -9.5913 -2.7109 14.8915 -5.1661 4.1597 3.7627

-3.4935 -6.9304 21.3811 18.7096 4.7966 34.1842 -12.8923 38.8888 -17.3304 -7.7680 -0.7180 -12.6132 0.1471 -0.4485 -50.9221 0.1976 -12.1938 -3.8002

-0.2665 7.2320 -11.2621 -11.3091 4.9761 -17.3527 5.0438 -17.3304 42.1705 5.0598 -3.4883 6.4501 4.6376 -3.4626 29.9731 -14.2904 6.4322 -14.2857

0.3359 1.4466 -1.5591 -10.6051 -1.0423 -12.8989 -10.6555 -7.7680 5.0598 21.5852 -2.7198 4.1550 9.4357 2.4230 14.8986 3.8211 3.9373 -5.1545

0.3458 -0.2647 -0.7066 0.5521 -0.9170 -0.4513 2.4190 -0.7180 -3.4883 -2.7198 0.9273 0.0233 -2.1014 0.0000 0.1239 1.3474 0.1241 2.3548

1.0183 2.3023 -6.9602 -6.8775 -1.4533 -12.1988 3.9094 -12.6132 6.4501 4.1550 0.0233 4.4040 0.4241 0.1236 17.4468 -0.0308 4.2925 0.2014

-0.1415 0.6359 1.9022 -2.9049 0.8192 -1.2702 -9.5913 0.1471 4.6376 9.4357 -2.1014 0.4241 6.8124 1.1939 1.3659 0.0600 0.0725 -4.0835

0.3429 -0.2643 0.5480 -0.7052 -0.9106 -0.7109 -2.7109 -0.4485 -3.4626 2.4230 0.0000 0.1236 1.1939 0.9207 0.1230 2.3495 0.0231 1.3385

4.4282 10.2527 -28.3065 -28.3194 -5.3846 -50.9083 14.8915 -50.9221 29.9731 14.8986 0.1239 17.4468 1.3659 0.1230 72.1364 -0.1619 17.4461 -0.1850

1.3361 -1.1463 1.6547 -1.7093 -3.5898 -3.8227 -5.1661 0.1976 -14.2904 3.8211 1.3474 -0.0308 0.0600 2.3495 -0.1619 9.8382 0.2180 5.3346

1.0156 2.2975 -6.8745 -6.9674 -1.4553 -12.6202 4.1597 -12.1938 6.4322 3.9373 0.1241 4.2925 0.0725 0.0231 17.4461 0.2180 4.4126 -0.0476

1.3313 -1.1513 -1.6908 1.6741 -3.5848 0.2287 3.7627 -3.8002 -14.2857 -5.1545 2.3548 0.2014 -4.0835 1.3385 -0.1850 5.3346 -0.0476 9.8056

-0.1340 0.6465 -2.9166 1.9155 0.8141 0.1339 9.4732 -1.2973 4.6405 -9.6973 1.2033 0.0772 -5.2144 -2.1056 1.3847 -4.1226 0.4226 0.0603

Column 19

-0.1340

0.6465

-2.9166

1.9155

0.8141

0.1339

9.4732

-1.2973

4.6405

-9.6973

1.2033

0.0772

-5.2144

-2.1056

1.3847

-4.1226

0.4226

0.0603

6.9051

ans =

0.0000

0.0000

0.0001

0.0005

0.0019

0.0050

0.0108

0.0146

0.0246

0.0391

0.0493

0.0694

0.1837

0.7206

6.2217

6.8670

48.4955

50.2796

196.2112

0.610344640947-3.43472278686\*x-3.42841581682\*y+1.16262855519\*z+25.4161025753\*x^4+5.27996921708\*x^4\*z+25.282425988\*y^4+5.27829495033\*y^4\*z+0.0278067325036\*z^2-14.8311378667\*y\*z-8.75919476653\*y\*z^2-21.4519890602\*y^3-28.1834914062\*y^3\*z-17.9214136026\*y^3\*z^2+13.3153117009\*y^2+42.3415309903\*y^2\*z+39.9821457238\*y^2\*z^2-21.47830221\*x^3-28.1776166477\*x^3\*z+7.63463557855\*x^3\*y+35.3291961105\*x^3\*y\*z-17.9133736237\*x^3\*z^2+39.9757934811\*x^3\*y\*z^2+13.3283745257\*x^2+42.3435699368\*x^2\*z-23.0739036817\*x^2\*y-133.148966319\*x^2\*y\*z+14.0594527889\*x^2\*y^2+77.4284524815\*x^2\*y^2\*z+39.9886166651\*x^2\*z^2-146.619234865\*x^2\*y\*z^2+90.1299234764\*x^2\*y^2\*z^2+18.7923512153\*x\*y-14.8465882157\*x\*z-8.76283672683\*x\*z^2+108.868245979\*x\*y\*z+101.026040117\*x\*y\*z^2+7.5873176737\*x\*y^3+35.3320628257\*x\*y^3\*z+39.9764158139\*x\*y^3\*z^2-22.9321474247\*x\*y^2-133.150673628\*x\*y^2\*z-146.620863669\*x\*y^2\*z^2-0.229948779494\*z^3+9.06461878155\*x\*z^3+9.04903553189\*y\*z^3+2.21774539138\*z^4-1.83397633274\*y\*z^4-3.80928720735\*y^2\*z^3-3.80750565697\*x^2\*z^3-1.82122930637\*x\*z^4-13.6269451956\*x\*y\*z^3+0.927282030106\*y^2\*z^4+0.201249334296\*y^4\*z^2+0.0466117272759\*y^3\*z^3+0.49404519603\*x^2\*y\*z^3+7.17184745942e-10\*x\*y\*z^4+0.494950777601\*x\*y^2\*z^3+6.81238709958\*y^6-19.1826235102\*y^5+0.848200625874\*y^5\*z+0.24045589134\*x^3\*y^3-2.18411457007\*x^2\*y^3+0.223921375276\*x^2\*y^3\*z+1.67124577894\*x^2\*y^4-1.05707834769\*x\*y^4+2.67016936295\*x\*y^4\*z+0.120044164602\*x\*y^5-1.98284464366\*x^3\*y^2+0.220446866552\*x^3\*y^2\*z+6.90507167984\*x^6-19.3945302836\*x^5+0.845106395797\*x^5\*z+0.120542604942\*x^5\*y-1.0279751284\*x^4\*y+0.201336866078\*x^4\*z^2+2.67412274709\*x^4\*y\*z+1.5605144731\*x^4\*y^2+0.0461082987914\*x^3\*z^3+0.920655815219\*x^2\*z^4

ans =

"(x-x^2) v,Q , v^T Q v ="

ans =

10×1 cell array

'1'

'z'

'y'

'x'

'z^2'

'y\*z'

'y^2'

'x\*z'

'x\*y'

'x^2'

ans =

0.9598 0.0143 -0.3063 -2.6119 -0.6553 -0.3156 0.0344 -1.4616 -0.3380 1.4248

0.0143 1.8455 0.2976 1.4065 0.9196 0.0477 -0.2169 -1.9989 -0.9586 -2.4887

-0.3063 0.2976 0.4694 0.7626 0.3725 0.1884 -0.2522 0.1232 -0.1923 -0.4707

-2.6119 1.4065 0.7626 8.5465 2.5053 0.8249 -0.0526 2.4789 0.3394 -6.2447

-0.6553 0.9196 0.3725 2.5053 0.9207 0.2470 -0.1337 0.0231 -0.2346 -2.2301

-0.3156 0.0477 0.1884 0.8249 0.2470 0.3324 0.0243 0.2225 -0.0551 -0.4211

0.0344 -0.2169 -0.2522 -0.0526 -0.1337 0.0243 0.6767 0.1416 0.0602 -0.2660

-1.4616 -1.9989 0.1232 2.4789 0.0231 0.2225 0.1416 4.6615 1.7582 0.4226

-0.3380 -0.9586 -0.1923 0.3394 -0.2346 -0.0551 0.0602 1.7582 1.4475 0.0603

1.4248 -2.4887 -0.4707 -6.2447 -2.2301 -0.4211 -0.2660 0.4226 0.0603 6.9051

ans =

0.0000

0.0000

0.0011

0.0329

0.2467

0.3359

0.7571

1.5176

7.5716

16.3020

0.959798290238-5.22373073325\*x-0.612633445873\*y+0.028664510925\*z+6.90507175103\*x^4+0.676744461537\*y^4+0.534934964179\*z^2-0.0359839789949\*y\*z+0.840353806039\*y\*z^2-0.504432174539\*y^3+0.0485619396151\*y^3\*z+0.538142860364\*y^2-0.0570207676829\*y^2\*z+0.0650249590968\*y^2\*z^2-12.4894584196\*x^3+0.845106389668\*x^3\*z+0.120542615099\*x^3\*y+11.3959985054\*x^2-0.0197461086331\*x^2\*z-0.262457189398\*x^2\*y+2.67412260152\*x^2\*y\*z+0.915539484442\*x^2\*y^2+0.201336951059\*x^2\*z^2+0.849078973941\*x\*y-0.110263816006\*x\*z+1.01280034901\*x\*z^2-0.0209929543775\*x\*y\*z-0.0242061965485\*x\*y\*z^2+0.120374436625\*x\*y^3-0.489746551614\*x\*y^2+0.172987847568\*x\*y^2\*z+1.83923366646\*z^3+0.0461082883482\*x\*z^3+0.494045154106\*y\*z^3+0.92065588489\*z^4

ans =

"(y-y^2) v,Q , v^T Q v ="

ans =

10×1 cell array

'1'

'z'

'y'

'x'

'z^2'

'y\*z'

'y^2'

'x\*z'

'x\*y'

'x^2'

ans =

0.9565 0.0153 -2.6065 -0.2991 -0.6544 -1.4631 1.4099 -0.3152 -0.3455 0.0431

0.0153 1.8552 1.4097 0.2977 0.9275 -1.9985 -2.4926 0.0469 -0.9601 -0.2152

-2.6065 1.4097 8.5620 0.7239 2.5100 2.4831 -6.1851 0.8249 0.3530 -0.0984

-0.2991 0.2977 0.7239 0.4883 0.3702 0.1249 -0.4832 0.1863 -0.1840 -0.2287

-0.6544 0.9275 2.5100 0.3702 0.9273 0.0233 -2.2311 0.2475 -0.2317 -0.1373

-1.4631 -1.9985 2.4831 0.1249 0.0233 4.6634 0.4241 0.2199 1.7584 0.1333

1.4099 -2.4926 -6.1851 -0.4832 -2.2311 0.4241 6.8124 -0.4234 0.0600 -0.2207

-0.3152 0.0469 0.8249 0.1863 0.2475 0.2199 -0.4234 0.3395 -0.0457 0.0237

-0.3455 -0.9601 0.3530 -0.1840 -0.2317 1.7584 0.0600 -0.0457 1.4360 0.0600

0.0431 -0.2152 -0.0984 -0.2287 -0.1373 0.1333 -0.2207 0.0237 0.0600 0.6450

ans =

0.0000

0.0000

0.0011

0.0327

0.2697

0.3817

0.7252

1.4723

7.5786

16.2242

0.956506944887-0.59815887493\*x-5.21297623532\*y+0.030564363657\*z+0.644975058283\*x^4+6.81238717078\*y^4+0.546356781594\*z^2-0.10665647179\*y\*z+1.02315655349\*y\*z^2-12.3702362383\*y^3+0.848200615173\*y^3\*z+11.3817719389\*y^2-0.019073606381\*y^2\*z+0.201249411456\*y^2\*z^2-0.457476608789\*x^3+0.0474586686071\*x^3\*z+0.120081501111\*x^3\*y+0.574497763575\*x^2-0.0578612844281\*x^2\*z-0.564806098884\*x^2\*y+0.175359071159\*x^2\*y\*z+0.994501377585\*x^2\*y^2+0.0649003070947\*x^2\*z^2+0.7567446678\*x\*y-0.0349005259563\*x\*z+0.834239425232\*x\*z^2-0.0207335874665\*x\*y\*z-0.0235839235511\*x\*y\*z^2+0.120044173552\*x\*y^3-0.260289427325\*x\*y^2+2.67016917196\*x\*y^2\*z+1.85502115885\*z^3+0.49495075442\*x\*z^3+0.0466117173328\*y\*z^3+0.927282100119\*z^4

ans =

"z+1 v,Q , v^T Q v ="

ans =

10×1 cell array

'1'

'z'

'y'

'x'

'z^2'

'y\*z'

'y^2'

'x\*z'

'x\*y'

'x^2'

ans =

0.0463 -0.0310 0.0495 0.0489 0.1885 0.2927 -0.0455 0.2945 0.0116 -0.0449

-0.0310 5.5268 -0.3448 -0.3429 0.0410 -5.7924 -0.0865 -5.7873 0.5022 -0.0830

0.0495 -0.3448 0.1411 0.0058 0.1990 0.4142 -0.0666 0.8654 -0.0176 -0.0193

0.0489 -0.3429 0.0058 0.1400 0.1972 0.8599 -0.0195 0.4105 -0.0171 -0.0659

0.1885 0.0410 0.1990 0.1972 0.8056 1.0617 -0.1917 1.0670 0.0645 -0.1890

0.2927 -5.7924 0.4142 0.8599 1.0617 8.6088 -0.1234 6.5699 -0.4424 -0.2225

-0.0455 -0.0865 -0.0666 -0.0195 -0.1917 -0.1234 0.0847 -0.2233 -0.0301 0.0189

0.2945 -5.7873 0.8654 0.4105 1.0670 6.5699 -0.2233 8.6132 -0.4433 -0.1243

0.0116 0.5022 -0.0176 -0.0171 0.0645 -0.4424 -0.0301 -0.4433 0.0694 -0.0297

-0.0449 -0.0830 -0.0193 -0.0659 -0.1890 -0.2225 0.0189 -0.1243 -0.0297 0.0835

ans =

0.0000

0.0007

0.0021

0.0051

0.0195

0.0257

0.0740

1.7636

2.1477

20.0811

0.0463221491313+0.0977841759936\*x+0.0989732315579\*y-0.06191352494\*z+0.0835295399205\*x^4+0.0847327107008\*y^4+5.90380921982\*z^2-0.104309349599\*y\*z-11.186700627\*y\*z^2-0.133121390832\*y^3-0.246708903645\*y^3\*z+0.0500448218377\*y^2+0.655291623269\*y^2\*z+8.22543577478\*y^2\*z^2-0.131810658213\*x^3-0.248550935861\*x^3\*z-0.0594786797679\*x^3\*y+0.0502299074977\*x^2+0.654902123857\*x^2\*z-0.0728644017642\*x^2\*y-1.33171503949\*x^2\*y\*z+0.107155767227\*x^2\*y^2+8.23509915646\*x^2\*z^2+0.034863777034\*x\*y-0.0968666491526\*x\*z-11.1802300747\*x\*z^2+4.45516042886\*x\*y\*z+13.2686549631\*x\*y\*z^2-0.0601788219276\*x\*y^3-0.0742956439592\*x\*y^2-1.33159318643\*x\*y^2\*z+0.0820885435147\*z^3+2.13398032741\*x\*z^3+2.12349682616\*y\*z^3+0.805603210689\*z^4

ans =

"(2z+1) v,Q , v^T Q v ="

ans =

10×1 cell array

'1'

'z'

'y'

'x'

'z^2'

'y\*z'

'y^2'

'x\*z'

'x\*y'

'x^2'

ans =

0.6567 0.9168 -0.1865 -0.1886 0.4450 0.1814 0.0888 0.1829 0.5632 0.0876

0.9168 1.3124 -0.2115 -0.2143 0.6757 0.3462 0.1390 0.3495 0.8457 0.1378

-0.1865 -0.2115 1.0182 -0.7550 -0.0381 0.6199 0.0048 -0.4080 -0.0560 0.0009

-0.1886 -0.2143 -0.7550 1.0198 -0.0393 -0.4104 -0.0007 0.6220 -0.0562 0.0048

0.4450 0.6757 -0.0381 -0.0393 0.4028 0.3042 0.0932 0.3084 0.5053 0.0930

0.1814 0.3462 0.6199 -0.4104 0.3042 1.1174 0.2525 -0.3476 0.3895 -0.0790

0.0888 0.1390 0.0048 -0.0007 0.0932 0.2525 0.6152 -0.0758 0.0028 -0.4448

0.1829 0.3495 -0.4080 0.6220 0.3084 -0.3476 -0.0758 1.1312 0.3914 0.2567

0.5632 0.8457 -0.0560 -0.0562 0.5053 0.3895 0.0028 0.3914 0.8891 0.0031

0.0876 0.1378 0.0009 0.0048 0.0930 -0.0790 -0.4448 0.2567 0.0031 0.6142

ans =

0.0000

0.0000

0.0003

0.0221

0.3233

0.4728

0.8391

1.1382

2.6944

3.2866

0.656672149118-0.377140364296\*x-0.3729356589\*y+1.83369290197\*z+0.614175479436\*x^4+0.61515080347\*y^4+2.20231604842\*z^2-0.0600376828072\*y\*z+0.61622632642\*y\*z^2+0.00963782701818\*y^3+0.504985239405\*y^3\*z+1.19587328245\*y^2+1.51790124471\*y^2\*z+1.30386960831\*y^2\*z^2+0.00961649941954\*x^3+0.513306067259\*x^3\*z+0.00614483066881\*x^3\*y+1.19507536396\*x^2+1.51962417538\*x^2\*z-0.110557638728\*x^2\*y+0.624696315388\*x^2\*y\*z-0.000583434945505\*x^2\*y^2+1.31723410781\*x^2\*z^2-0.3835775882\*x\*y-0.0627248278699\*x\*z+0.620450137155\*x\*z^2+0.0545456465322\*x\*y\*z+0.315353128428\*x\*y\*z^2+0.00567334181138\*x\*y^3-0.113396356928\*x\*y^2+0.627373475222\*x\*y^2\*z+1.35131770039\*z^3+0.616703435121\*x\*z^3+0.608401277953\*y\*z^3+0.402801609332\*z^4