



Column1

GEOMETRY

Nodal Coordinates:

(Node No. - X - Y - Z)

NODES =

| | | |
|---------|----------|----------|
| 1.00000 | 0.00000 | 0.00000 |
| 2.00000 | 0.00000 | 12.00000 |
| 3.00000 | 0.00000 | 24.00000 |
| 4.00000 | 0.00000 | 36.00000 |
| 5.00000 | 0.00000 | 48.00000 |
| 6.00000 | 80.50000 | 25.61000 |
| 7.00000 | 80.50000 | 37.61000 |

(Node No. - Tx - Ty - Rz)

1 0 1 0

6 1 1 1

7 1 1 1

(Ele No. - iNode - jNode - Member Type - E - A - I)

| | | | | | | |
|---------|---------|---------|---------|-------------|------------|--------------|
| 1.00000 | 1.00000 | 2.00000 | 0.00000 | 29000.00000 | 9999.00000 | 999999.00000 |
| 2.00000 | 2.00000 | 3.00000 | 0.00000 | 29000.00000 | 9999.00000 | 999999.00000 |
| 3.00000 | 3.00000 | 4.00000 | 0.00000 | 29000.00000 | 9999.00000 | 999999.00000 |
| 4.00000 | 4.00000 | 5.00000 | 0.00000 | 29000.00000 | 9999.00000 | 999999.00000 |
| 5.00000 | 4.00000 | 7.00000 | 0.00000 | 29000.00000 | 2.00000 | 2.85000 |
| 6.00000 | 4.00000 | 6.00000 | 0.00000 | 29000.00000 | 2.00000 | 2.85000 |
| 7.00000 | 2.00000 | 7.00000 | 0.00000 | 29000.00000 | 2.00000 | 2.85000 |

(Node No. - F_x - F_y - M_z)

5 0 0 600

ans =

-8.0500 88.5500 -24.3000 72.3000

| | | | | |
|------------------------|-------------------|-------------------|-------------------|-------------------|
| ANALYSIS | | | | |
| ***** | | | | |
| kff = | | | | |
| Columns 1 through 5: | | | | |
| 201388687.50000 | -1208332125.00000 | -201388687.50000 | 0.00000 | -1208332125.00000 |
| -1208332125.00000 | 9666657000.00000 | 1208332125.00000 | 0.00000 | 4833328500.00000 |
| -201388687.50000 | 1208332125.00000 | 402777998.63670 | 197.87827 | -21.06737 |
| 0.00000 | 0.00000 | 197.87827 | 48328564.59758 | 66.22113 |
| -1208332125.00000 | 4833328500.00000 | -21.06737 | 66.22113 | 19333317913.55745 |
| 0.00000 | 0.00000 | -201388687.50000 | 0.00000 | 1208332125.00000 |
| 0.00000 | 0.00000 | 0.00000 | -24164250.00000 | 0.00000 |
| 0.00000 | 0.00000 | -1208332125.00000 | 0.00000 | 4833328500.00000 |
| 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| Columns 6 through 10: | | | | |
| 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| -201388687.50000 | 0.00000 | -1208332125.00000 | 0.00000 | 0.00000 |
| 0.00000 | -24164250.00000 | 0.00000 | 0.00000 | 0.00000 |
| 1208332125.00000 | 0.00000 | 4833328500.00000 | 0.00000 | 0.00000 |
| 402777375.00000 | 0.00000 | 0.00000 | -201388687.50000 | 0.00000 |
| 0.00000 | 48328500.00000 | 0.00000 | 0.00000 | -24164250.00000 |
| 0.00000 | 0.00000 | 19333314000.00000 | 1208332125.00000 | 0.00000 |
| -201388687.50000 | 0.00000 | 1208332125.00000 | 402778797.95686 | -76.11831 |
| 0.00000 | -24164250.00000 | 0.00000 | -76.11831 | 48328515.72037 |
| -1208332125.00000 | 0.00000 | 4833328500.00000 | 8.10559 | 151.13062 |
| 0.00000 | 0.00000 | 0.00000 | -201388687.50000 | 0.00000 |
| 0.00000 | 0.00000 | 0.00000 | 0.00000 | -24164250.00000 |
| 0.00000 | 0.00000 | 0.00000 | -1208332125.00000 | 0.00000 |
| Columns 11 through 14: | | | | |
| 0.00000 | 0.00000 | 0.00000 | 0.00000 | |
| 0.00000 | 0.00000 | 0.00000 | 0.00000 | |
| 0.00000 | 0.00000 | 0.00000 | 0.00000 | |
| 0.00000 | 0.00000 | 0.00000 | 0.00000 | |
| 0.00000 | 0.00000 | 0.00000 | 0.00000 | |
| -1208332125.00000 | 0.00000 | 0.00000 | 0.00000 | |

| | | | |
|--------------------|------------------|-----------------|-------------------|
| 0.00000 | 0.00000 | 0.00000 | 0.00000 |
| 4833328500.00000 | 0.00000 | 0.00000 | 0.00000 |
| 8.10559 | -201388687.50000 | 0.00000 | -1208332125.00000 |
| 151.13062 | 0.00000 | -24164250.00000 | 0.00000 |
| 19333322179.05791 | 1208332125.00000 | 0.00000 | 4833328500.00000 |
| 1208332125.00000 | 201388687.50000 | 0.00000 | 1208332125.00000 |
| 0.00000 | 0.00000 | 24164250.00000 | 0.00000 |
| 4833328500.00000 | 1208332125.00000 | 0.00000 | 9666657000.00000 |
| Number of dof: 14 | | | |
| Number of loads: 1 | | | |
| LOADS = | | | |
| 5 0 0 600 | | | |
| deg = 12 | | | |
| deg = 13 | | | |
| deg = 14 | | | |
| P = | | | |
| 0 | | | |
| 0 | | | |
| 0 | | | |
| 0 | | | |
| 0 | | | |
| 0 | | | |
| 0 | | | |
| 0 | | | |
| 0 | | | |
| 0 | | | |
| 0 | | | |
| 0 | | | |
| 0 | | | |
| 600 | | | |
| uf = | | | |
| 0.06595362305 | | | |
| 0.00229854225 | | | |
| 0.03837111605 | | | |
| -0.00000038780 | | | |
| 0.00229854225 | | | |
| 0.01078835157 | | | |
| -0.00000045508 | | | |
| 0.00229860493 | | | |
| -0.01679587656 | | | |
| -0.00000052237 | | | |

| |
|---|
| 0.00229878619 |
| -0.04438280049 |
| -0.00000052237 |
| 0.00229903447 |
| ***** |
| Post Process |
| ***** |
| ----- |
| Nodal Displacements: |
| (Node No. - Tx - Ty - Rz) |
| ----- |
| NodalDisp = |
| 1.00000 0.06595 0.00000 0.00230 |
| 2.00000 0.03837 -0.00000 0.00230 |
| 3.00000 0.01079 -0.00000 0.00230 |
| 4.00000 -0.01680 -0.00000 0.00230 |
| 5.00000 -0.04438 -0.00000 0.00230 |
| 6.00000 0.00000 0.00000 0.00000 |
| 7.00000 0.00000 0.00000 0.00000 |
| ----- |
| ----- |
| Global Member Forces: |
| (Element No. - iFx - iFy - iMz - jFx - jFy - jMz) |
| ----- |
| GlobalForces = |
| 1.0000e+00 -3.2596e-09 9.3709e+00 5.5879e-09 3.2596e-09 -9.3709e+00 4.0978e-08 |
| 2.0000e+00 -2.3881e+01 1.6259e+00 -8.1871e+00 2.3881e+01 -1.6259e+00 2.9476e+02 |
| 3.0000e+00 -2.3881e+01 1.6259e+00 -2.9476e+02 2.3881e+01 -1.6259e+00 5.8133e+02 |
| 4.0000e+00 1.3970e-09 5.3291e-15 -6.0000e+02 -1.3970e-09 -5.3291e-15 6.0000e+02 |
| 5.0000e+00 -1.2098e+01 -6.5437e-02 9.4645e+00 1.2098e+01 6.5437e-02 4.7451e+00 |
| 6.0000e+00 -1.1783e+01 1.6913e+00 9.2012e+00 1.1783e+01 -1.6913e+00 4.5197e+00 |
| 7.0000e+00 2.3881e+01 7.7450e+00 8.1871e+00 -2.3881e+01 -7.7450e+00 3.6893e+00 |
| ----- |
| ----- |
| Local Member Forces: |
| (Element No. - iFx - iFy - iMz - jFx - jFy - jMz) |
| ----- |
| LocalForces = |

| | | | | | | |
|---------------------------|-------------|-------------|-------------|-------------|-------------|------------|
| 1.0000e+00 | 9.3709e+00 | 3.2596e-09 | 5.5879e-09 | -9.3709e+00 | -3.2596e-09 | 4.0978e-08 |
| 2.0000e+00 | 1.6259e+00 | 2.3881e+01 | -8.1871e+00 | -1.6259e+00 | -2.3881e+01 | 2.9476e+02 |
| 3.0000e+00 | 1.6259e+00 | 2.3881e+01 | -2.9476e+02 | -1.6259e+00 | -2.3881e+01 | 5.8133e+02 |
| 4.0000e+00 | 5.3291e-15 | -1.3970e-09 | -6.0000e+02 | -5.3291e-15 | 1.3970e-09 | 6.0000e+02 |
| 5.0000e+00 | -1.2097e+01 | 1.7648e-01 | 9.4645e+00 | 1.2097e+01 | -1.7648e-01 | 4.7451e+00 |
| 6.0000e+00 | -1.1903e+01 | 1.6904e-01 | 9.2012e+00 | 1.1903e+01 | -1.6904e-01 | 4.5197e+00 |
| 7.0000e+00 | 2.5105e+01 | 1.4059e-01 | 8.1871e+00 | -2.5105e+01 | -1.4059e-01 | 3.6893e+00 |
| ----- | | | | | | |
| ----- | | | | | | |
| Nodal Support Reactions: | | | | | | |
| (Node No. - Fx - Fy - Mz) | | | | | | |
| ----- | | | | | | |
| Support = | | | | | | |
| ----- | | | | | | |
| 1.00000 | 0.00000 | 9.37088 | 0.00000 | | | |
| 2.00000 | 0.00000 | 0.00000 | 0.00000 | | | |
| 3.00000 | 0.00000 | 0.00000 | 0.00000 | | | |
| 4.00000 | 0.00000 | 0.00000 | 0.00000 | | | |
| 5.00000 | 0.00000 | 0.00000 | 0.00000 | | | |
| 6.00000 | 11.78348 | -1.69132 | 4.51966 | | | |
| 7.00000 | -11.78348 | -7.67956 | 8.43441 | | | |
| ----- | | | | | | |
| sumFx = 0.0000000023968 | | | | | | |
| sumFy = 8.8818e-15 | | | | | | |
| sumMz = 12.954 | | | | | | |
| ----- | | | | | | |