



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 | 1.00000 | 29000.00000 | 2.00000 | 2.85000 |
| 6.00000 | 4.00000 | 6.00000 | 1.00000 | 29000.00000 | 2.00000 | 2.85000 |
| 7.00000 | 2.00000 | 7.00000 | 1.00000 | 29000.00000 | 2.00000 | 2.85000 |

(Node No. - F_x - F_y - M_z)

1 0 0 1000

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 | 402777998.52329 | 198.23475 | 0.00000 |
| 0.00000 | 0.00000 | 198.23475 | 48328563.47705 | 0.00000 |
| -1208332125.00000 | 4833328500.00000 | 0.00000 | 0.00000 | 19333314000.00000 |
| 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 | 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 | 402778797.93350 | -76.26641 |
| 0.00000 | -24164250.00000 | 0.00000 | -76.26641 | 48328512.92764 |
| -1208332125.00000 | 0.00000 | 4833328500.00000 | 0.00000 | 0.00000 |
| 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 |
| 0.00000 | -201388687.50000 | 0.00000 | -1208332125.00000 |
| 0.00000 | 0.00000 | -24164250.00000 | 0.00000 |
| 19333314000.00000 | 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 = | | | |
| 1 0 0 1000 | | | |
| deg = 1 | | | |
| deg = 2 | | | |
| P = | | | |
| 0 | | | |
| 1000 | | | |
| 0 | | | |
| 0 | | | |
| 0 | | | |
| 0 | | | |
| 0 | | | |
| 0 | | | |
| 0 | | | |
| 0 | | | |
| 0 | | | |
| 0 | | | |
| 0 | | | |
| 0 | | | |
| uf = | | | |
| 0.11488406976 | | | |
| 0.00400514942 | | | |
| 0.06682475954 | | | |
| -0.00000064062 | | | |
| 0.00400473562 | | | |
| 0.01877000105 | | | |
| -0.00000073304 | | | |
| 0.00400442528 | | | |
| -0.02928227468 | | | |
| -0.00000082546 | | | |
| 0.00400432183 | | | |

| |
|--|
| -0.07733413662 |
| -0.00000082546 |
| 0.00400432183 |
| ***** |
| Post Process |
| ***** |
| ----- |
| Nodal Displacements: |
| (Node No. - Tx - Ty - Rz) |
| ----- |
| NodalDisp = |
| 1.00000 0.11488 0.00000 0.00401 |
| 2.00000 0.06682 -0.00000 0.00400 |
| 3.00000 0.01877 -0.00000 0.00400 |
| 4.00000 -0.02928 -0.00000 0.00400 |
| 5.00000 -0.07733 -0.00000 0.00400 |
| 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 = |
| 1.00000 0.00000 15.48019 1000.00000 -0.00000 -15.48019 -1000.00000 |
| 2.00000 -41.66667 2.23324 1000.00000 41.66667 -2.23324 -500.00000 |
| 3.00000 -41.66667 2.23324 500.00000 41.66667 -2.23324 -0.00000 |
| 4.00000 0.00000 0.00000 -0.00000 -0.00000 -0.00000 -0.00000 |
| 5.00000 -21.08515 -0.42143 0.00000 21.08515 0.42143 0.02236 |
| 6.00000 -20.58151 2.65467 0.00000 20.58151 -2.65467 -0.14110 |
| 7.00000 41.66667 13.24695 0.00000 -41.66667 -13.24695 -0.70393 |
| ----- |
| ----- |
| Local Member Forces: |
| (Element No. - iFx - iFy - iMz - jFx - jFy - jMz) |
| ----- |
| LocalForces = |

| | | | | | | |
|---------------------------|-----------|-----------|------------|-----------|-----------|-------------|
| 1.00000 | 15.48019 | -0.00000 | 1000.00000 | -15.48019 | 0.00000 | -1000.00000 |
| 2.00000 | 2.23324 | 41.66667 | 1000.00000 | -2.23324 | -41.66667 | -500.00000 |
| 3.00000 | 2.23324 | 41.66667 | 500.00000 | -2.23324 | -41.66667 | -0.00000 |
| 4.00000 | 0.00000 | -0.00000 | -0.00000 | -0.00000 | 0.00000 | -0.00000 |
| 5.00000 | -21.08936 | 0.00028 | 0.00000 | 21.08936 | -0.00028 | 0.02236 |
| 6.00000 | -20.75201 | -0.00174 | 0.00000 | 20.75201 | 0.00174 | -0.14110 |
| 7.00000 | 43.72176 | -0.00833 | 0.00000 | -43.72176 | 0.00833 | -0.70393 |
| ----- | | | | | | |
| ----- | | | | | | |
| Nodal Support Reactions: | | | | | | |
| (Node No. - Fx - Fy - Mz) | | | | | | |
| ----- | | | | | | |
| Support = | | | | | | |
| | | | | | | |
| 1.00000 | 0.00000 | 15.48019 | 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 | 20.58151 | -2.65467 | -0.14110 | | | |
| 7.00000 | -20.58151 | -12.82552 | -0.68157 | | | |
| | | | | | | |
| sumFx = 0.00000000032780 | | | | | | |
| sumFy = 1.9540e-14 | | | | | | |
| sumMz = -0.82267 | | | | | | |
| ----- | | | | | | |