



## Column1

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### GEOMETRY

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Nodal Coordinates:

(Node No. - X - Y - Z)

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NODES =

|         |           |          |
|---------|-----------|----------|
| 1.00000 | 0.00000   | 0.00000  |
| 2.00000 | 0.00000   | 25.56000 |
| 3.00000 | 0.00000   | 27.00000 |
| 4.00000 | 0.00000   | 41.04000 |
| 5.00000 | 0.00000   | 54.00000 |
| 6.00000 | 104.50000 | 25.56000 |
| 7.00000 | 104.50000 | 41.04000 |

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(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. - Fx - Fy - Mz)

|         |         |         |            |
|---------|---------|---------|------------|
| 5.00000 | 0.00000 | 0.00000 | 1029.60000 |
|---------|---------|---------|------------|

ans =

-10.450 114.950 -35.700 89.700

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## ANALYSIS

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kff =

Columns 1 through 9:

[illegible]

Columns 10 through 14:

|             |             |             |             |             |
|-------------|-------------|-------------|-------------|-------------|
| 0.0000e+00  | 0.0000e+00  | 0.0000e+00  | 0.0000e+00  | 0.0000e+00  |
| 0.0000e+00  | 0.0000e+00  | 0.0000e+00  | 0.0000e+00  | 0.0000e+00  |
| 0.0000e+00  | 0.0000e+00  | 0.0000e+00  | 0.0000e+00  | 0.0000e+00  |
| 0.0000e+00  | 0.0000e+00  | 0.0000e+00  | 0.0000e+00  | 0.0000e+00  |
| 0.0000e+00  | 0.0000e+00  | 0.0000e+00  | 0.0000e+00  | 0.0000e+00  |
| 0.0000e+00  | -8.8270e+08 | 0.0000e+00  | 0.0000e+00  | 0.0000e+00  |
| -2.0653e+07 | 0.0000e+00  | 0.0000e+00  | 0.0000e+00  | 0.0000e+00  |
| 0.0000e+00  | 4.1311e+09  | 0.0000e+00  | 0.0000e+00  | 0.0000e+00  |
| -7.9462e+01 | -1.5325e+08 | -1.5987e+08 | 0.0000e+00  | -1.0360e+09 |
| 4.3028e+07  | 8.9367e+01  | 0.0000e+00  | -2.2374e+07 | 0.0000e+00  |
| 8.9367e+01  | 1.7213e+10  | 1.0360e+09  | 0.0000e+00  | 4.4753e+09  |
| 0.0000e+00  | 1.0360e+09  | 1.5987e+08  | 0.0000e+00  | 1.0360e+09  |
| -2.2374e+07 | 0.0000e+00  | 0.0000e+00  | 2.2374e+07  | 0.0000e+00  |
| 0.0000e+00  | 4.4753e+09  | 1.0360e+09  | 0.0000e+00  | 8.9506e+09  |

Number of dof: 14

Number of loads: 1

LOADS =

|         |         |         |            |
|---------|---------|---------|------------|
| 5.00000 | 0.00000 | 0.00000 | 1029.60000 |
|---------|---------|---------|------------|

deg = 12

deg = 13

|                                 |
|---------------------------------|
| deg = 14                        |
| P =                             |
|                                 |
| 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                         |
| 1029.60000                      |
|                                 |
| uf =                            |
|                                 |
| 0.3873580090                    |
| 0.0107790083                    |
| 0.1118465576                    |
| -0.0000012954                   |
| 0.0107790083                    |
| 0.0963247834                    |
| -0.0000013219                   |
| 0.0107790121                    |
| -0.0550139064                   |
| -0.0000015802                   |
| 0.0107792739                    |
| -0.1947162774                   |
| -0.0000015802                   |
| 0.0107797340                    |
|                                 |
| *****                           |
| Post Process                    |
| *****                           |
|                                 |
| -----                           |
| Nodal Displacements:            |
| (Node No. - Tx - Ty - Rz)       |
| -----                           |
|                                 |
| NodalDisp =                     |
|                                 |
| 1.00000 0.38736 0.00000 0.01078 |

|   |          |          |         |
|---|----------|----------|---------|
| 2.00000   | 0.11185  | -0.00000 | 0.01078 |
| 3.00000   | 0.09632  | -0.00000 | 0.01078 |
| 4.00000   | -0.05501 | -0.00000 | 0.01078 |
| 5.00000   | -0.19472 | -0.00000 | 0.01078 |
| 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 -9.3132e-10 1.4696e+01 7.4506e-09 9.3132e-10 -1.4696e+01 2.2352e-08  |          |          |         |
| 2.0000e+00 -6.0021e+01 5.3348e+00 -3.3004e+01 6.0021e+01 -5.3348e+00 1.1943e+02 |          |          |         |
| 3.0000e+00 -6.0021e+01 5.3348e+00 -1.1943e+02 6.0021e+01 -5.3348e+00 9.6212e+02 |          |          |         |
| 4.0000e+00 -5.5879e-09 1.4211e-14 -1.0296e+03 5.5879e-09 -1.4211e-14 1.0296e+03 |          |          |         |
| 5.0000e+00 -3.0534e+01 4.8950e-01 3.4102e+01 3.0534e+01 -4.8950e-01 1.7051e+01  |          |          |         |
| 6.0000e+00 -2.9487e+01 4.8453e+00 3.3375e+01 2.9487e+01 -4.8453e+00 1.6509e+01  |          |          |         |
| 7.0000e+00 6.0021e+01 9.3613e+00 3.3004e+01 -6.0021e+01 -9.3613e+00 1.6138e+01  |          |          |         |
| -----   |          |          |         |
| -----   |          |          |         |
| Local Member Forces:  |          |          |         |
| (Element No. - iFx - iFy - iMz - jFx - jFy - jMz)                               |          |          |         |
| -----   |          |          |         |
| LocalForces =   |          |          |         |
| 1.0000e+00 1.4696e+01 9.3132e-10 7.4506e-09 -1.4696e+01 -9.3132e-10 2.2352e-08  |          |          |         |
| 2.0000e+00 5.3348e+00 6.0021e+01 -3.3004e+01 -5.3348e+00 -6.0021e+01 1.1943e+02 |          |          |         |
| 3.0000e+00 5.3348e+00 6.0021e+01 -1.1943e+02 -5.3348e+00 -6.0021e+01 9.6212e+02 |          |          |         |
| 4.0000e+00 1.4211e-14 5.5879e-09 -1.0296e+03 -1.4211e-14 -5.5879e-09 1.0296e+03 |          |          |         |
| 5.0000e+00 -3.0534e+01 4.8950e-01 3.4102e+01 3.0534e+01 -4.8950e-01 1.7051e+01  |          |          |         |
| 6.0000e+00 -2.9878e+01 4.7220e-01 3.3375e+01 2.9878e+01 -4.7220e-01 1.6509e+01  |          |          |         |
| 7.0000e+00 6.0744e+01 4.6519e-01 3.3004e+01 -6.0744e+01 -4.6519e-01 1.6138e+01  |          |          |         |
| -----   |          |          |         |
| -----   |          |          |         |
| Nodal Support Reactions:  |          |          |         |
| (Node No. - Fx - Fy - Mz)   |          |          |         |
| -----   |          |          |         |
| Support =   |          |          |         |
| 1.00000 0.00000 14.69616 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              | 29.48655  | -4.84532 | 16.50851 |
| 7.00000              | -29.48655 | -9.85085 | 33.18882 |
|                      |           |          |          |
| sumFx = 0.0000041461 |           |          |          |
| sumFy = 3.5527e-15   |           |          |          |
| sumMz = 49.697       |           |          |          |
| -----                |           |          |          |







0000e+00  
0000e+00  
0000e+00  
0000e+00  
0000e+00  
2574e+08  
0000e+00  
3270e+08  
3561e+08  
9462e+01  
5325e+08  
5987e+08  
0000e+00  
0360e+09