



Column1

GEOMETRY

Nodal Coordinates:

(Node No. - X - Y - Z)

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

(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 =

-10.450 114.950 -35.700 89.700

ANALYSIS

kff =

Columns 1 through 9:

2.0840e+07	-2.6633e+08	-2.0840e+07	0.0000e+00	-2.6633e+08	0.0000e+00	0.0000e+00	0.0000e+00	0.0000e+00
-2.6633e+08	4.5383e+09	2.6633e+08	0.0000e+00	2.2692e+09	0.0000e+00	0.0000e+00	0.0000e+00	0.0000e+00
-2.0840e+07	2.6633e+08	1.1657e+11	7.9554e+01	-8.3646e+10	-1.1654e+11	0.0000e+00	-8.3912e+10	0.0000e+00
0.0000e+00	0.0000e+00	7.9554e+01	2.1271e+08	0.0000e+00	0.0000e+00	-2.0137e+08	0.0000e+00	0.0000e+00
-2.6633e+08	2.2692e+09	-8.3646e+10	0.0000e+00	8.5094e+10	8.3912e+10	0.0000e+00	4.0278e+10	0.0000e+00
0.0000e+00	0.0000e+00	-1.1654e+11	0.0000e+00	8.3912e+10	1.1667e+11	0.0000e+00	8.3029e+10	-1.1654e+11
0.0000e+00	0.0000e+00	0.0000e+00	-2.0137e+08	0.0000e+00	0.0000e+00	2.2202e+08	0.0000e+00	0.0000e+00
0.0000e+00	0.0000e+00	-8.3912e+10	0.0000e+00	4.0278e+10	8.3029e+10	0.0000e+00	8.8818e+10	8.3912e+10
0.0000e+00	0.0000e+00	0.0000e+00	0.0000e+00	0.0000e+00	-1.2574e+08	0.0000e+00	8.8270e+08	2.0137e+08
0.0000e+00	0.0000e+00	0.0000e+00	0.0000e+00	0.0000e+00	0.0000e+00	-2.0653e+07	0.0000e+00	-7.9554e+01
0.0000e+00	0.0000e+00	0.0000e+00	0.0000e+00	0.0000e+00	-8.8270e+08	0.0000e+00	4.1311e+09	-1.1657e+11
0.0000e+00	0.0000e+00	0.0000e+00	0.0000e+00	0.0000e+00	0.0000e+00	0.0000e+00	0.0000e+00	-1.1657e+11
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	-1.1657e+11

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
-7.9554e+01	-1.5325e+08	-1.5987e+08	0.0000e+00	-1.0360e+09
4.3028e+07	0.0000e+00	0.0000e+00	-2.2374e+07	0.0000e+00
0.0000e+00	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 =

1	0	0	1000
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deg = 1

deg = 2

P =
0
1000
0
0
0
0
0
0
0
0
0
0
0
0
0
0
uf =
0.4164496357
0.0115891742
0.1202416072
-0.0000012579
0.0115882928
0.1035545001
-0.0000012813
0.0115882455
-0.0591424113
-0.0000015091
0.0115880259
-0.2093232272
-0.0000015091
0.0115880259

Post Process

Nodal Displacements:
(Node No. - Tx - Ty - Rz)

NodalDisp =
1.00000 0.41645 0.00000 0.01159
2.00000 0.12024 -0.00000 0.01159

3.00000	0.10355	-0.00000	0.01159
4.00000	-0.05914	-0.00000	0.01159
5.00000	-0.20932	-0.00000	0.01159
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	14.27060	1000.00000
2.00000	-64.59948	4.70497	999.99999
3.00000	-64.59948	4.70497	906.97674
4.00000	-0.00000	0.00000	-0.00000
5.00000	-32.82545	-0.00000	0.00000
6.00000	-31.77403	4.70497	0.00000
7.00000	64.59948	9.56563	0.00000

Local Member Forces:			
(Element No. - iFx - iFy - iMz - jFx - jFy - jMz)			

LocalForces =			
1.00000	14.27060	-0.00000	1000.00000
2.00000	4.70497	64.59948	999.99999
3.00000	4.70497	64.59948	906.97674
4.00000	0.00000	0.00000	-0.00000
5.00000	-32.82545	-0.00000	0.00000
6.00000	-32.12049	-0.00182	0.00000
7.00000	65.30386	-0.00371	0.00000

Nodal Support Reactions:			
(Node No. - Fx - Fy - Mz)			

Support =			
1.00000	0.00000	14.27060	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	31.77403	-4.70497	-0.19258
7.00000	-31.77403	-9.56563	-0.39153
sumFx = 0.0000042975			
sumFy = 5.3291e-14			
sumMz = -0.58412			

0000e+00
0000e+00
0000e+00
0000e+00
0000e+00
2574e+08
0000e+00
3270e+08
3561e+08
9554e+01
5325e+08
5987e+08
0000e+00
0360e+09