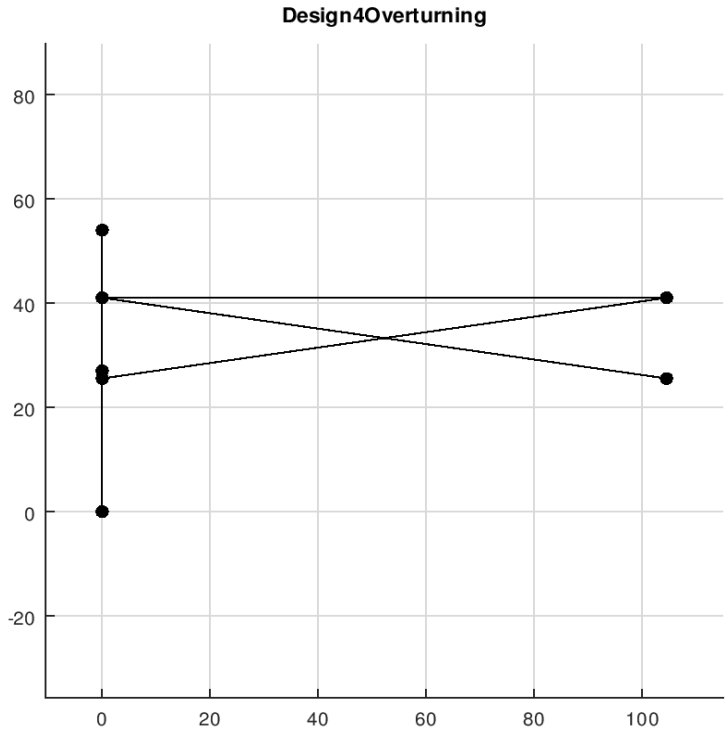

Column1
****
GEOMETRY
****

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

Boundary Conditions: 1 = Restrained, 0 = Free

(Node No. - Tx - Ty - Rz)

BOUNDS =

1	0	1	0
6	1	1	1
7	1	1	1

Element Information:

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

ELES =

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

Load Information:

(Node No. - Fx - Fy - Mz)

LOADS =

5.00000	0.00000	0.00000	1029.60000

---

plotFile = ../../1. OUTPUT/Design4Overturning.png

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.
-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.
-2.0840e+07	2.6633e+08	1.1657e+11	7.9462e+01	-8.3646e+10	-1.1654e+11	0.0000e+00	-8.3912e+10	0.
0.0000e+00	0.0000e+00	7.9462e+01	2.1271e+08	4.3956e+01	0.0000e+00	-2.0137e+08	0.0000e+00	0.
-2.6633e+08	2.2692e+09	-8.3646e+10	4.3956e+01	8.5094e+10	8.3912e+10	0.0000e+00	4.0278e+10	0.
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.
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.
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.
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.
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.
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.
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.
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.
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.

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
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