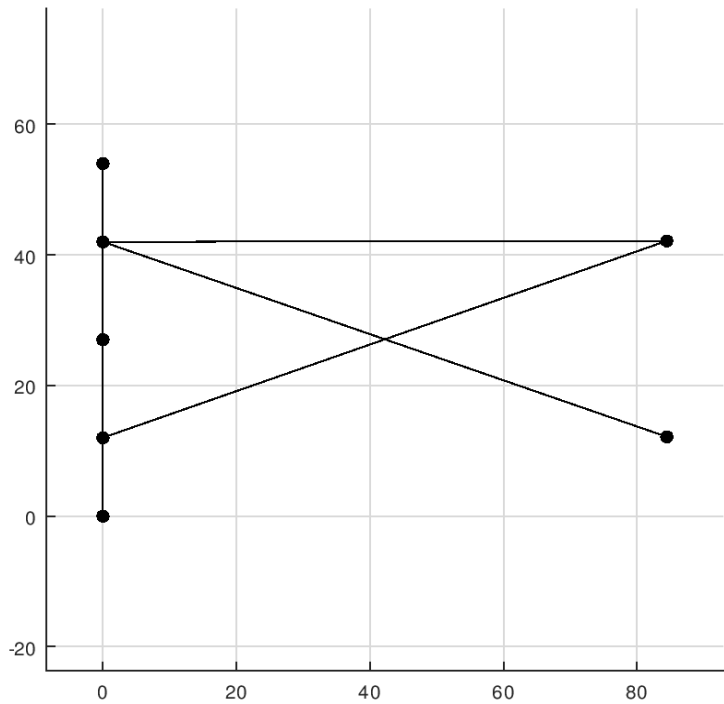


Analysis2Overturning

Analysis2Overturning



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	27.00000
4.00000	0.00000	42.00000
5.00000	0.00000	54.00000
6.00000	84.46000	12.14660
7.00000	84.46000	42.14660

Boundary Conditions: 1 = Restrained, 0 = Free

(Node No. - Tx - Ty - Rz)

BOUNDS =

1 1 1 0

6 1 1 1

7 1 1 1

Element Information:

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

ELES =

1 1 2 0 29000 9999 999999

2 2 3 0 29000 9999 999999

3 3 4 0 29000 9999 999999

4 4 5 0 29000 9999 999999

5 4 7 0 29000 5 50

6 4 6 0 29000 5 50

7 2 7 0 29000 5 50

Load Information:

(Node No. - Fx - Fy - Mz)

LOADS =

5 0 0 720

plotFile = ../1. OUTPUT/Analysis2Overturning.png

ans =

-8.4460 92.9060 -23.6760 77.6760

ANALYSIS				

kff =				
Columns 1 through 5:				
966657000.00000	1208332125.00000	0.00000	4833328500.00000	0.00000
1208332125.00000	304501132.39096	504.26323	434999201.34761	-103111008.00000
0.00000	504.26323	43495854.11402	1018.82405	0.00000
4833328500.00000	434999201.34761	1018.82405	17400047275.17513	773332560.00000
0.00000	-103111008.00000	0.00000	773332560.00000	206222016.00000
0.00000	0.00000	-19331400.00000	0.00000	0.00000
0.00000	-773332560.00000	0.00000	3866662800.00000	0.00000
0.00000	0.00000	0.00000	0.00000	-103111008.00000
0.00000	0.00000	0.00000	0.00000	0.00000
0.00000	0.00000	0.00000	0.00000	-773332560.00000
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	-773332560.00000	0.00000	0.00000	0.00000
-19331400.00000	0.00000	0.00000	0.00000	0.00000
0.00000	3866662800.00000	0.00000	0.00000	0.00000
0.00000	0.00000	-103111008.00000	0.00000	-773332560.00000
38662800.00000	0.00000	0.00000	-19331400.00000	0.00000
0.00000	15466651200.00000	773332560.00000	0.00000	3866662800.00000
0.00000	773332560.00000	304502853.85281	-498.05544	-434999205.81648
-19331400.00000	0.00000	-498.05544	43495880.16908	2241.76973
0.00000	3866662800.00000	-434999205.81648	2241.76973	17400116017.48470
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
Columns 11 through 13:				
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		
-201388687.50000	0.00000	-1208332125.00000		

0.00000	-24164250.00000	0.00000
1208332125.00000	0.00000	4833328500.00000
201388687.50000	0.00000	1208332125.00000
0.00000	24164250.00000	0.00000
1208332125.00000	0.00000	9666657000.00000
Number of dof: 13		
Number of loads: 1		
LOADS =		
5	0	0 720
deg = 11		
deg = 12		
deg = 13		
P =		
0		
0		
0		
0		
0		
0		
0		
0		
0		
0		
0		
0		
0		
720		
uf =		
0.000120731845		
-0.001448962108		
-0.000000090769		
0.000120776836		
-0.003261800816		
-0.000000235663		
0.000120955675		
-0.005078252867		
-0.000000380557		
0.000121258615		
-0.006535143835		
-0.000000380557		
0.000121556546		

Post Process

Nodal Displacements:

(Node No. - Tx - Ty - Rz)

NodalDisp =

1.00000	0.00000	0.00000	0.00012
2.00000	-0.00145	-0.00000	0.00012
3.00000	-0.00326	-0.00000	0.00012
4.00000	-0.00508	-0.00000	0.00012
5.00000	-0.00654	-0.00000	0.00012
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	-1.8121e+01	2.1934e+00	2.6776e-09	1.8121e+01	-2.1934e+00	2.1745e+02
2.0000e+00	-1.5995e+01	2.8010e+00	-2.2579e+02	1.5995e+01	-2.8010e+00	4.6572e+02
3.0000e+00	-1.5995e+01	2.8010e+00	-4.6572e+02	1.5995e+01	-2.8010e+00	7.0565e+02
4.0000e+00	-7.8580e-10	-4.2633e-14	-7.2000e+02	7.8580e-10	4.2633e-14	7.2000e+02
5.0000e+00	-8.7185e+00	1.3300e-01	8.3373e+00	8.7185e+00	-1.3300e-01	4.1738e+00
6.0000e+00	-7.2767e+00	2.6680e+00	6.0158e+00	7.2767e+00	-2.6680e+00	2.0903e+00
7.0000e+00	-2.1260e+00	-6.0763e-01	8.3381e+00	2.1260e+00	6.0763e-01	4.4325e+00

Local Member Forces:

(Element No. - iFx - iFy - iMz - jFx - jFy - jMz)

LocalForces =

1.0000e+00	2.1934e+00	1.8121e+01	2.6776e-09	-2.1934e+00	-1.8121e+01	2.1745e+02
2.0000e+00	2.8010e+00	1.5995e+01	-2.2579e+02	-2.8010e+00	-1.5995e+01	4.6572e+02
3.0000e+00	2.8010e+00	1.5995e+01	-4.6572e+02	-2.8010e+00	-1.5995e+01	7.0565e+02
4.0000e+00	-4.2633e-14	7.8580e-10	-7.2000e+02	4.2633e-14	-7.8580e-10	7.2000e+02

5.0000e+00	-8.7183e+00	1.4813e-01	8.3373e+00	8.7183e+00	-1.4813e-01	4.1738e+00
6.0000e+00	-7.7498e+00	9.0490e-02	6.0158e+00	7.7498e+00	-9.0490e-02	2.0903e+00
7.0000e+00	-2.2065e+00	1.4240e-01	8.3381e+00	2.2065e+00	-1.4240e-01	4.4325e+00

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

Support =						
1.00000	-18.12114	2.19337	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	7.27666	-2.66800	2.09034			
7.00000	10.84447	0.47463	8.60625			
sumFx = -9.4431e-12						
sumFy = -5.2180e-15						
sumMz = 10.697						
