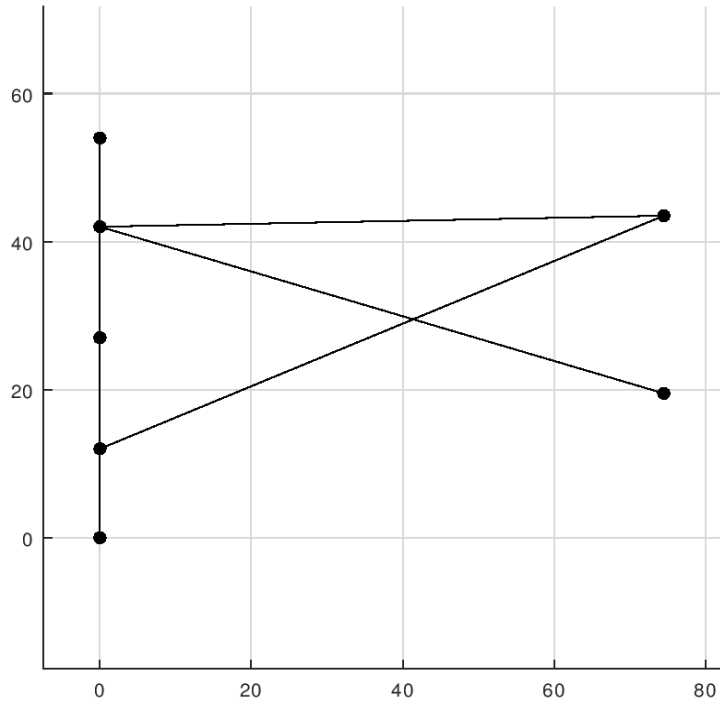


Design3Overturning



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	74.50000	19.49000
7.00000	74.50000	43.49000

(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 0 0 840

ans =

-7.4500 81.9500 -17.7000 71.7000

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	304500304.18197	256.48818	434999535.48696
0.00000	0.00000	256.48818	43495760.28803	69.82284
-1208332125.00000	4833328500.00000	434999535.48696	69.82284	17399986687.44471
0.00000	0.00000	-103111008.00000	0.00000	773332560.00000
0.00000	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
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
-103111008.00000	0.00000	-773332560.00000	0.00000	0.00000
0.00000	-19331400.00000	0.00000	0.00000	0.00000
773332560.00000	0.00000	3866662800.00000	0.00000	0.00000
206222016.00000	0.00000	0.00000	-103111008.00000	0.00000
0.00000	38662800.00000	0.00000	0.00000	-19331400.00000
0.00000	0.00000	15466651200.00000	773332560.00000	0.00000
-103111008.00000	0.00000	773332560.00000	304501156.63740	-190.24204
0.00000	-19331400.00000	0.00000	-190.24204	43495716.97987
-773332560.00000	0.00000	3866662800.00000	-434999543.10550	167.66727
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	
-773332560.00000	0.00000	0.00000	0.00000	

0.00000	0.00000	0.00000	0.00000
3866662800.00000	0.00000	0.00000	0.00000
-434999543.10550	-201388687.50000	0.00000	-1208332125.00000
167.66727	0.00000	-24164250.00000	0.00000
17399991284.61197	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 =			
5 0 0 840			
deg = 12			
deg = 13			
deg = 14			
P =			
0			
0			
0			
0			
0			
0			
0			
0			
0			
0			
0			
0			
0			
840			
uf =			
0.07005590890			
0.00211120703			
0.04472142453			
-0.00000064202			
0.00211120703			
0.01305276393			
-0.00000084357			
0.00211131617			
-0.01861911409			
-0.00000104511			

0.00211163602
-0.04396083185
-0.00000104511
0.00211198361

Post Process

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

NodalDisp =
1.00000 0.07006 0.00000 0.00211
2.00000 0.04472 -0.00000 0.00211
3.00000 0.01305 -0.00000 0.00211
4.00000 -0.01862 -0.00000 0.00211
5.00000 -0.04396 -0.00000 0.00211
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 15.51398 -0.00000 0.00000 -15.51398 0.00000
2.00000 -27.15865 3.89612 -7.30953 27.15865 -3.89612 414.68931
3.00000 -27.15865 3.89612 -414.68931 27.15865 -3.89612 822.06909
4.00000 0.00000 0.00000 -840.00000 -0.00000 0.00000 840.00000
5.00000 -14.49053 -0.10029 9.40185 14.49053 0.10029 4.71750
6.00000 -12.66812 3.99641 8.52906 12.66812 -3.99641 4.04404
7.00000 27.15865 11.61786 7.30953 -27.15865 -11.61786 2.99481

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

LocalForces =

1.00000	15.51398	0.00000	-0.00000	-15.51398	-0.00000	0.00000
2.00000	3.89612	27.15865	-7.30953	-3.89612	-27.15865	414.68931
3.00000	3.89612	27.15865	-414.68931	-3.89612	-27.15865	822.06909
4.00000	0.00000	-0.00000	-840.00000	0.00000	0.00000	840.00000
5.00000	-14.48964	0.18948	9.40185	14.48964	-0.18948	4.71750
6.00000	-13.28256	0.16155	8.52906	13.28256	-0.16155	4.04404
7.00000	29.53897	0.12740	7.30953	-29.53897	-0.12740	2.99481

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

Support =						
1.00000	0.00000	15.51398	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	12.66812	-3.99641	4.04404			
7.00000	-12.66812	-11.51757	7.71231			
sumFx = 0.00000000052773						
sumFy = 1.2434e-14						
sumMz = 11.756						
