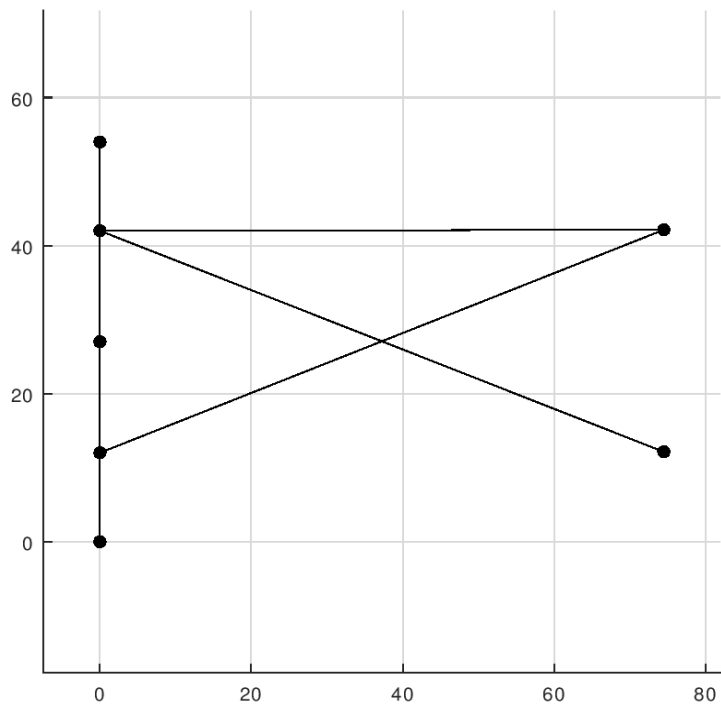


Analysis3Overturning

Analysis3Overturning



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	12.13000
7.00000	74.50000	42.13000

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 0 840

plotFile = ../1. OUTPUT/Analysis3Overturning.png

ans =

-7.4500 81.9500 -17.7000 71.7000

ANALYSIS				

kff =				
Columns 1 through 5:				
966657000.00000	1208332125.00000	0.00000	4833328500.00000	0.00000
1208332125.00000	304501250.90919	615.49407	434999059.91488	-103111008.00000
0.00000	615.49407	43495932.45104	1248.88289	0.00000
4833328500.00000	434999059.91488	1248.88289	17400054773.32669	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	304503202.79202	-609.04955	-434999065.18880
-19331400.00000	0.00000	-609.04955	43495971.25929	2820.91156
0.00000	3866662800.00000	-434999065.18880	2820.91156	17400132712.88576
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	0 840
deg = 11		
deg = 12		
deg = 13		
P =		
0		
0		
0		
0		
0		
0		
0		
0		
0		
0		
0		
0		
0		
840		
uf =		
0.00012700367		
-0.00152425364		
-0.00000011730		
0.00012705608		
-0.00343147830		
-0.00000030424		
0.00012726469		
-0.00534291892		
-0.00000049119		
0.00012761820		
-0.00687642288		
-0.00000049119		
0.00012796579		

Post Process							

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

NodalDisp =							
1.00000	0.00000	0.00000	0.00013				
2.00000	-0.00152	-0.00000	0.00013				
3.00000	-0.00343	-0.00000	0.00013				
4.00000	-0.00534	-0.00000	0.00013				
5.00000	-0.00688	-0.00000	0.00013				
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	-21.11018	2.83442	0.00000	21.11018	-2.83442	253.32213	
2.00000	-18.67509	3.61394	-263.26192	18.67509	-3.61394	543.38831	
3.00000	-18.67509	3.61394	-543.38831	18.67509	-3.61394	823.51470	
4.00000	-0.00000	0.00000	-840.00000	0.00000	0.00000	840.00000	
5.00000	-10.39927	0.18227	9.94921	10.39927	-0.18227	4.98153	
6.00000	-8.27582	3.43168	6.53609	8.27582	-3.43168	1.92521	
7.00000	-2.43508	-0.77952	9.93979	2.43508	0.77952	5.35476	

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

LocalForces =							
1.00000	2.83442	21.11018	0.00000	-2.83442	-21.11018	253.32213	
2.00000	3.61394	18.67509	-263.26192	-3.61394	-18.67509	543.38831	
3.00000	3.61394	18.67509	-543.38831	-3.61394	-18.67509	823.51470	
4.00000	0.00000	0.00000	-840.00000	0.00000	-0.00000	840.00000	

5.00000	-10.39894	0.20041	9.94921	10.39894	-0.20041	4.98153
6.00000	-8.95849	0.10542	6.53609	8.95849	-0.10542	1.92521
7.00000	-2.54972	0.19032	9.93979	2.54972	-0.19032	5.35476

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

Support =						
1.00000	-21.11018	2.83442	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	8.27582	-3.43168	1.92521			
7.00000	12.83436	0.59726	10.33629			
sumFx = -0.00000000020874						
sumFy = 2.4425e-15						
sumMz = 12.261						
