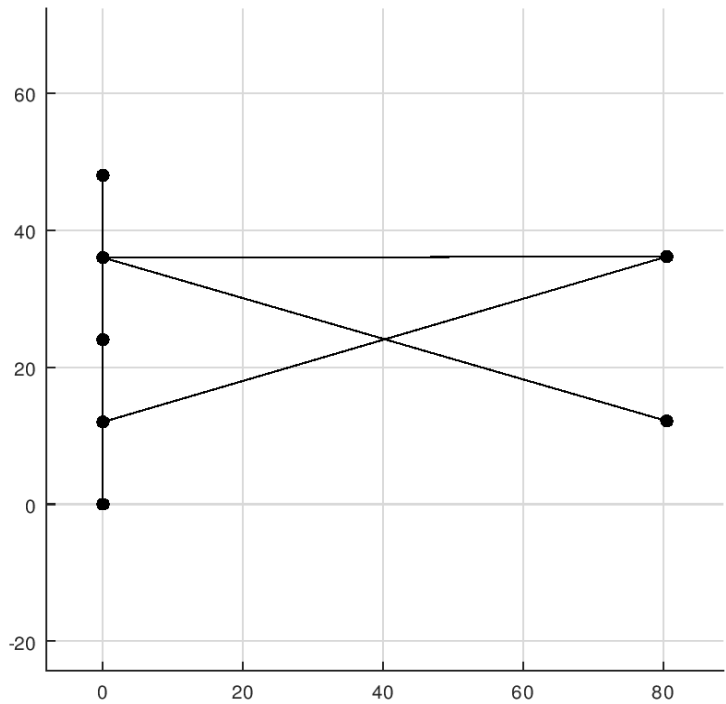


# **Analysis4Overturning**

Analysis4Overturning



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	24.00000
4.00000	0.00000	36.00000
5.00000	0.00000	48.00000
6.00000	80.50000	12.14000
7.00000	80.50000	36.14000
-----		

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 0 600

plotFile = ../1. OUTPUT/Analysis4Overturning.png

ans =

-8.0500 88.5500 -24.3000 72.3000

\*\*\*\*\*

ANALYSIS				
*****				
kff =				
Columns 1 through 5:				
966657000.00000	1208332125.00000	0.00000	4833328500.00000	0.00000
1208332125.00000	402778960.40395	466.63386	-353.81290	-201388687.50000
0.00000	466.63386	48328669.24560	1179.86490	0.00000
4833328500.00000	-353.81290	1179.86490	19333383013.44551	1208332125.00000
0.00000	-201388687.50000	0.00000	1208332125.00000	402777375.00000
0.00000	0.00000	-24164250.00000	0.00000	0.00000
0.00000	-1208332125.00000	0.00000	4833328500.00000	0.00000
0.00000	0.00000	0.00000	0.00000	-201388687.50000
0.00000	0.00000	0.00000	0.00000	0.00000
0.00000	0.00000	0.00000	0.00000	-1208332125.00000
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	-1208332125.00000	0.00000	0.00000	0.00000
-24164250.00000	0.00000	0.00000	0.00000	0.00000
0.00000	4833328500.00000	0.00000	0.00000	0.00000
0.00000	0.00000	-201388687.50000	0.00000	-1208332125.00000
48328500.00000	0.00000	0.00000	-24164250.00000	0.00000
0.00000	19333314000.00000	1208332125.00000	0.00000	4833328500.00000
0.00000	1208332125.00000	402780766.12272	-459.45116	348.37474
-24164250.00000	0.00000	-459.45116	48328699.84901	2525.77534
0.00000	4833328500.00000	348.37474	2525.77534	19333455128.78190
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	0 600
deg = 11		
deg = 12		
deg = 13		
P =		
0		
0		
0		
0		
0		
0		
0		
0		
0		
0		
0		
0		
0		
600		
uf =		
0.000124438524		
-0.001493436833		
-0.000000075547		
0.000124482160		
-0.002987919603		
-0.000000173856		
0.000124610851		
-0.004484398441		
-0.000000272165		
0.000124814838		
-0.005983666149		
-0.000000272165		
0.000125063114		

*****
Post Process
*****
-----
Nodal Displacements:
(Node No. - Tx - Ty - Rz)
-----
NodalDisp =
1.00000 0.00000 0.00000 0.00012
2.00000 -0.00149 -0.00000 0.00012
3.00000 -0.00299 -0.00000 0.00012
4.00000 -0.00448 -0.00000 0.00012
5.00000 -0.00598 -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 =
1.0000e+00 -1.7575e+01 1.8255e+00 -2.3283e-10 1.7575e+01 -1.8255e+00 2.1090e+02
2.0000e+00 -1.5164e+01 2.3756e+00 -2.2002e+02 1.5164e+01 -2.3756e+00 4.0199e+02
3.0000e+00 -1.5164e+01 2.3756e+00 -4.0199e+02 1.5164e+01 -2.3756e+00 5.8395e+02
4.0000e+00 -2.9104e-11 -2.6645e-15 -6.0000e+02 2.9104e-11 2.6645e-15 6.0000e+02
5.0000e+00 -8.0777e+00 1.5377e-01 9.0030e+00 8.0777e+00 -1.5377e-01 4.5065e+00
6.0000e+00 -7.0858e+00 2.2218e+00 7.0491e+00 7.0858e+00 -2.2218e+00 2.7380e+00
7.0000e+00 -2.4118e+00 -5.5003e-01 9.1193e+00 2.4118e+00 5.5003e-01 4.8238e+00
-----
-----
Local Member Forces:
(Element No. - iFx - iFy - iMz - jFx - jFy - jMz)
-----
LocalForces =
1.0000e+00 1.8255e+00 1.7575e+01 -2.3283e-10 -1.8255e+00 -1.7575e+01 2.1090e+02
2.0000e+00 2.3756e+00 1.5164e+01 -2.2002e+02 -2.3756e+00 -1.5164e+01 4.0199e+02
3.0000e+00 2.3756e+00 1.5164e+01 -4.0199e+02 -2.3756e+00 -1.5164e+01 5.8395e+02
4.0000e+00 -2.6645e-15 2.9104e-11 -6.0000e+02 2.6645e-15 -2.9104e-11 6.0000e+02

5.0000e+00	-8.0775e+00	1.6782e-01	9.0030e+00	8.0775e+00	-1.6782e-01	4.5065e+00
6.0000e+00	-7.4250e+00	1.1657e-01	7.0491e+00	7.4250e+00	-1.1657e-01	2.7380e+00
7.0000e+00	-2.4681e+00	1.6591e-01	9.1193e+00	2.4681e+00	-1.6591e-01	4.8238e+00
-----						
-----						
Nodal Support Reactions:						
(Node No. - Fx - Fy - Mz)						
-----						
Support =						
1.00000	-17.57532	1.82553	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	7.08579	-2.22179	2.73801			
7.00000	10.48952	0.39626	9.33031			
sumFx = -0.00000000026119						
sumFy = -2.5535e-15						
sumMz = 12.068						
-----						