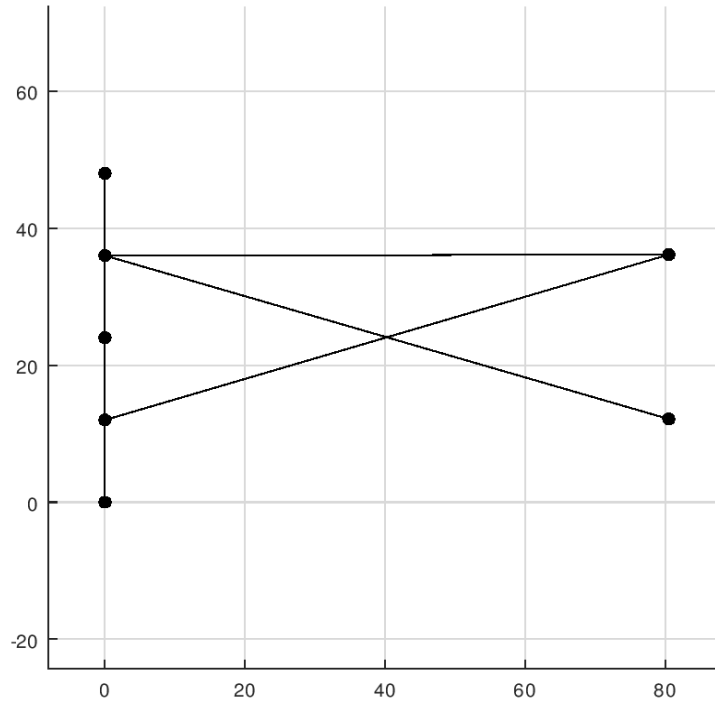


Analysis4Horizontal

Analysis4Horizontal



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 =

3 8 0 0

plotFile = ../1. OUTPUT/Analysis4Horizontal.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 =		
3 8 0 0		
deg = 5		
deg = 6		
deg = 7		
P =		
0		
0		
0		
0		
8		
0		
0		
0		
0		
0		
0		
0		
0		
uf =		
-0.000039877390		
0.000478505096		
0.000000024154		
-0.000039871494		
0.000956868258		
0.000000055602		
-0.000039853095		
0.001434996300		
0.000000087050		
-0.000039838928		
0.001913063437		
0.000000087050		
-0.000039838928		

Post Process

Nodal Displacements:

(Node No. - Tx - Ty - Rz)

NodalDisp =

1.00000	0.00000	0.00000	-0.00004
2.00000	0.00048	0.00000	-0.00004
3.00000	0.00096	0.00000	-0.00004
4.00000	0.00143	0.00000	-0.00004
5.00000	0.00191	0.00000	-0.00004
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	-2.3749e+00	-5.8367e-01	1.7462e-10	2.3749e+00	5.8367e-01	2.8499e+01
2.0000e+00	-3.1477e+00	-7.5992e-01	-2.5578e+01	3.1477e+00	7.5992e-01	6.3350e+01
3.0000e+00	4.8523e+00	-7.5992e-01	-6.3350e+01	-4.8523e+00	7.5992e-01	5.1223e+00
4.0000e+00	7.2760e-12	4.4409e-16	-4.9477e-10	-7.2760e-12	-4.4409e-16	-9.8953e-10
5.0000e+00	2.5849e+00	-4.9070e-02	-2.8736e+00	-2.5849e+00	4.9070e-02	-1.4384e+00
6.0000e+00	2.2675e+00	-7.1085e-01	-2.2487e+00	-2.2675e+00	7.1085e-01	-8.7265e-01
7.0000e+00	7.7274e-01	1.7625e-01	-2.9209e+00	-7.7274e-01	-1.7625e-01	-1.5451e+00

Local Member Forces:

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

LocalForces =

1.0000e+00	-5.8367e-01	2.3749e+00	1.7462e-10	5.8367e-01	-2.3749e+00	2.8499e+01
2.0000e+00	-7.5992e-01	3.1477e+00	-2.5578e+01	7.5992e-01	-3.1477e+00	6.3350e+01
3.0000e+00	-7.5992e-01	-4.8523e+00	-6.3350e+01	7.5992e-01	4.8523e+00	5.1223e+00
4.0000e+00	4.4409e-16	-7.2760e-12	-4.9477e-10	-4.4409e-16	7.2760e-12	-9.8953e-10

5.0000e+00	2.5848e+00	-5.3566e-02	-2.8736e+00	-2.5848e+00	5.3566e-02	-1.4384e+00
6.0000e+00	2.3760e+00	-3.7176e-02	-2.2487e+00	-2.3760e+00	3.7176e-02	-8.7265e-01
7.0000e+00	7.9080e-01	-5.3141e-02	-2.9209e+00	-7.9080e-01	5.3141e-02	-1.5451e+00

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

Support =						
1.00000	-2.37493	-0.58367	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	-2.26747	0.71085	-0.87265			
7.00000	-3.35760	-0.12718	-2.98353			
sumFx = -8.0000						
sumFy = 9.9920e-16						
sumMz = -3.8562						
