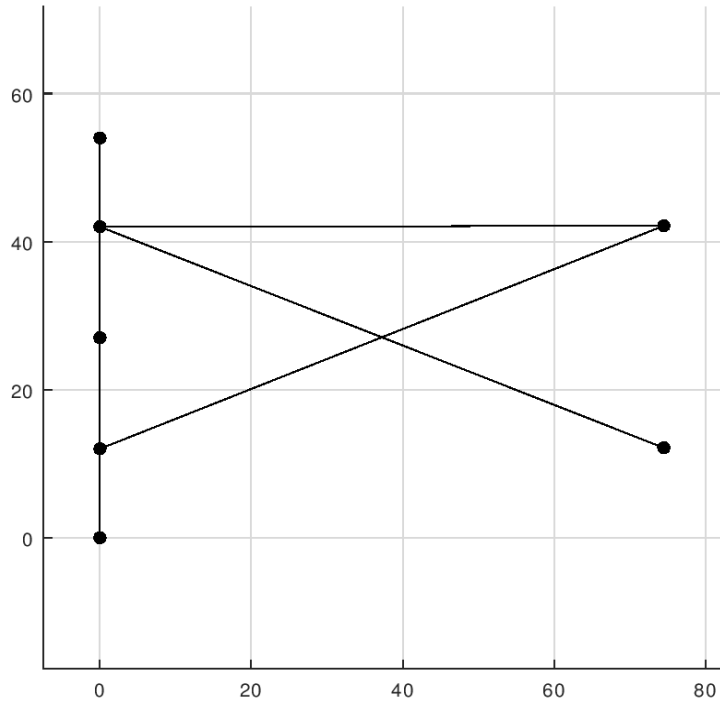


Analysis3Horizontal

Analysis3Horizontal



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 =

3 8 0 0

plotFile = ../1. OUTPUT/Analysis3Horizontal.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 =		
3 8 0 0		
deg = 5		
deg = 6		
deg = 7		
P =		
0		
0		
0		
0		
8		
0		
0		
0		
0		
0		
0		
0		
0		
0		
uf =		
-0.000032734973		
0.000392794154		
0.000000030127		
-0.000032728592		
0.000883551284		
0.000000078179		
-0.000032701557		
0.001373871981		
0.000000126231		
-0.000032680746		
0.001766040930		
0.000000126231		
-0.000032680746		

Post Process

Nodal Displacements:

(Node No. - Tx - Ty - Rz)

NodalDisp =

1.00000	0.00000	0.00000	-0.00003
2.00000	0.00039	0.00000	-0.00003
3.00000	0.00088	0.00000	-0.00003
4.00000	0.00137	0.00000	-0.00003
5.00000	0.00177	0.00000	-0.00003
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	-2.5703e+00	-7.2801e-01	-1.3388e-09	2.5703e+00	7.2801e-01	3.0844e+01
2.0000e+00	-3.1978e+00	-9.2891e-01	-2.8284e+01	3.1978e+00	9.2891e-01	7.6251e+01
3.0000e+00	4.8022e+00	-9.2891e-01	-7.6251e+01	-4.8022e+00	9.2891e-01	4.2188e+00
4.0000e+00	-7.2760e-11	-4.4409e-16	7.5670e-10	7.2760e-11	4.4409e-16	1.1642e-10
5.0000e+00	2.6741e+00	-4.6656e-02	-2.5478e+00	-2.6741e+00	4.6656e-02	-1.2757e+00
6.0000e+00	2.1281e+00	-8.8225e-01	-1.6709e+00	-2.1281e+00	8.8225e-01	-4.9017e-01
7.0000e+00	6.2750e-01	2.0090e-01	-2.5605e+00	-6.2750e-01	-2.0090e-01	-1.3794e+00

Local Member Forces:

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

LocalForces =

1.0000e+00	-7.2801e-01	2.5703e+00	-1.3388e-09	7.2801e-01	-2.5703e+00	3.0844e+01
2.0000e+00	-9.2891e-01	3.1978e+00	-2.8284e+01	9.2891e-01	-3.1978e+00	7.6251e+01
3.0000e+00	-9.2891e-01	-4.8022e+00	-7.6251e+01	9.2891e-01	4.8022e+00	4.2188e+00
4.0000e+00	-4.4409e-16	7.2760e-11	7.5670e-10	4.4409e-16	-7.2760e-11	1.1642e-10

5.0000e+00	2.6740e+00	-5.1322e-02	-2.5478e+00	-2.6740e+00	5.1322e-02	-1.2757e+00
6.0000e+00	2.3036e+00	-2.6925e-02	-1.6709e+00	-2.3036e+00	2.6925e-02	-4.9017e-01
7.0000e+00	6.5705e-01	-4.9027e-02	-2.5605e+00	-6.5705e-01	4.9027e-02	-1.3794e+00

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

Support =						
1.00000	-2.57034	-0.72801	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	-2.12810	0.88225	-0.49017			
7.00000	-3.30156	-0.15424	-2.65512			
sumFx = -8.0000						
sumFy = 3.0531e-16						
sumMz = -3.1453						
