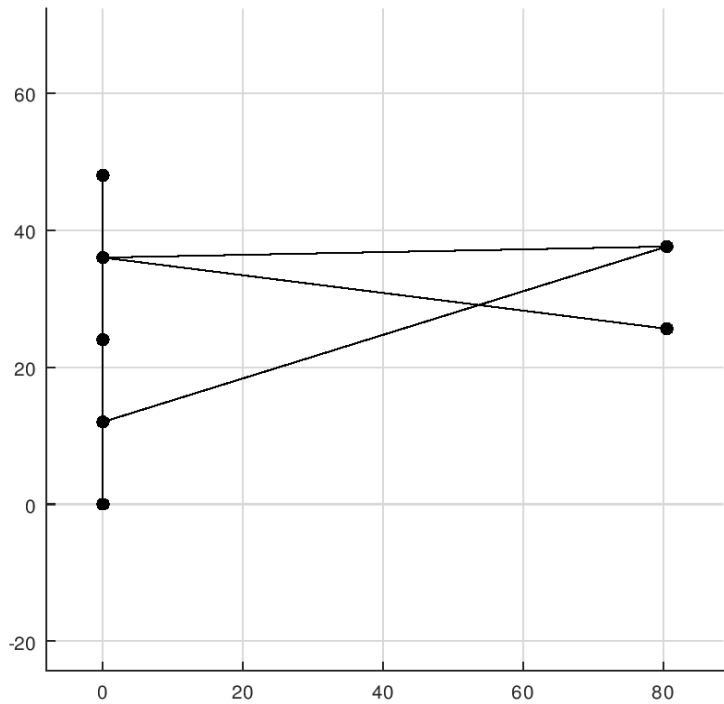


Design4Horizontal



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 25.61000
7.00000 80.50000 37.61000
-----

(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. -  $F_x$  -  $F_y$  -  $M_z$ )

3 8 0 0

ans =

-8.0500 88.5500 -24.3000 72.3000

\*\*\*\*\*

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	402777998.63670	197.87827	-21.06737
0.00000	0.00000	197.87827	48328564.59758	66.22113
-1208332125.00000	4833328500.00000	-21.06737	66.22113	19333317913.55745
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
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
-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	0.00000	0.00000
402777375.00000	0.00000	0.00000	-201388687.50000	0.00000
0.00000	48328500.00000	0.00000	0.00000	-24164250.00000
0.00000	0.00000	19333314000.00000	1208332125.00000	0.00000
-201388687.50000	0.00000	1208332125.00000	402778797.95686	-76.11831
0.00000	-24164250.00000	0.00000	-76.11831	48328515.72037
-1208332125.00000	0.00000	4833328500.00000	8.10559	151.13062
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	
-1208332125.00000	0.00000	0.00000	0.00000	

0.00000	0.00000	0.00000	0.00000
4833328500.00000	0.00000	0.00000	0.00000
8.10559	-201388687.50000	0.00000	-1208332125.00000
151.13062	0.00000	-24164250.00000	0.00000
19333322179.05791	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	966657000.00000
Number of dof: 14			
Number of loads: 1			
LOADS =			
3 8 0 0			
deg = 6			
deg = 7			
deg = 8			
P =			
0			
0			
0			
0			
0			
8			
0			
0			
0			
0			
0			
0			
0			
0			
uf =			
0.008035887204			
0.000143825144			
0.006309985476			
-0.000000043963			
0.000143825144			
0.004584043631			
-0.000000035860			
0.000143835084			
0.002857944800			
-0.000000027757			

0.000143844688
0.001131808549
-0.000000027757
0.000143844688
*****
Post Process
*****
-----
Nodal Displacements:
(Node No. - Tx - Ty - Rz)
-----
NodalDisp =
1.00000 0.00804 0.00000 0.00014
2.00000 0.00631 -0.00000 0.00014
3.00000 0.00458 -0.00000 0.00014
4.00000 0.00286 -0.00000 0.00014
5.00000 0.00113 -0.00000 0.00014
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 1.06233 0.00000 0.00000 -1.06233 0.00000
2.00000 -3.93210 -0.19580 -0.42993 3.93210 0.19580 47.61513
3.00000 4.06790 -0.19580 -47.61513 -4.06790 0.19580 -1.19968
4.00000 -0.00000 0.00000 0.00000 0.00000 -0.00000 0.00000
5.00000 2.05769 0.05205 0.58625 -2.05769 -0.05205 0.29094
6.00000 2.01021 -0.24785 0.61342 -2.01021 0.24785 0.32048
7.00000 3.93210 1.25813 0.42993 -3.93210 -1.25813 0.14850
-----
-----
Local Member Forces:
(Element No. - iFx - iFy - iMz - jFx - jFy - jMz)
-----
LocalForces =

1.00000	1.06233	0.00000	0.00000	-1.06233	-0.00000	0.00000
2.00000	-0.19580	3.93210	-0.42993	0.19580	-3.93210	47.61513
3.00000	-0.19580	-4.06790	-47.61513	0.19580	4.06790	-1.19968
4.00000	0.00000	0.00000	0.00000	-0.00000	-0.00000	0.00000
5.00000	2.05832	0.01089	0.58625	-2.05832	-0.01089	0.29094
6.00000	2.02540	0.01151	0.61342	-2.02540	-0.01151	0.32048
7.00000	4.12847	0.00685	0.42993	-4.12847	-0.00685	0.14850
-----						
-----						
Nodal Support Reactions:						
(Node No. - Fx - Fy - Mz)						
-----						
Support =						
1.00000	0.00000	1.06233	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	-2.01021	0.24785	0.32048			
7.00000	-5.98979	-1.31018	0.43944			
sumFx = -8.0000						
sumFy = 4.4409e-16						
sumMz = 0.75991						
-----						