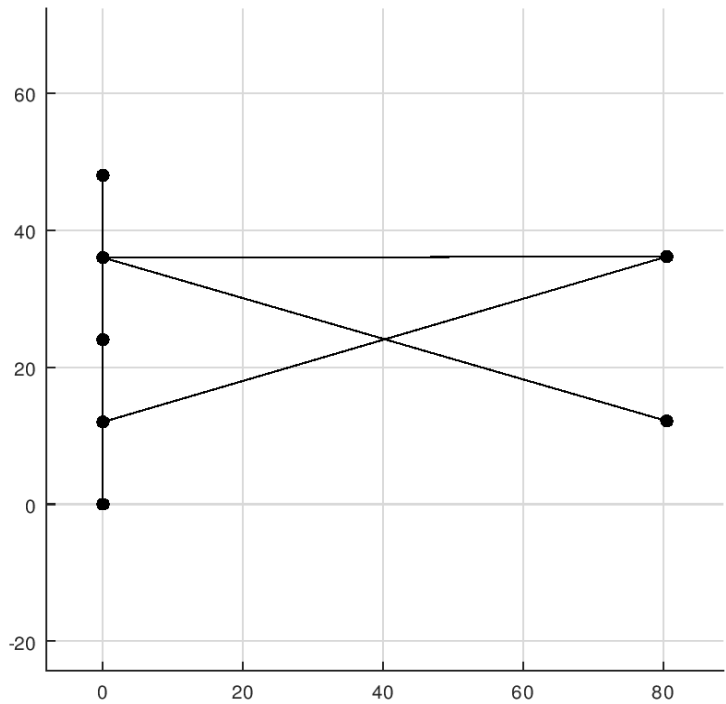


Analysis4Stiffness

Analysis4Stiffness



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 1 29000 5 50

6 4 6 1 29000 5 50

7 2 7 1 29000 5 50

Load Information:

(Node No. - Fx - Fy - Mz)

LOADS =

1 0 0 1000

plotFile = ../1. OUTPUT/Analysis4Stiffness.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	402778958.59005	472.68270	0.00000	-201388687.50000
0.00000	472.68270	48328649.07444	0.00000	0.00000
4833328500.00000	0.00000	0.00000	19333314000.00000	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	402780764.34212	-465.41488	0.00000
-24164250.00000	0.00000	-465.41488	48328654.56547	0.00000
0.00000	4833328500.00000	0.00000	0.00000	19333314000.00000
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
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 =		
1 0 0 1000		
deg = 1		
P =		
1000		
0		
0		
0		
0		
0		
0		
0		
0		
0		
0		
0		
0		
0		
uf =		
0.000216813835		
-0.002599586379		
-0.000000099200		
0.000216475821		
-0.005195985060		
-0.000000249253		
0.000216279145		
-0.007790810333		
-0.000000399305		
0.000216213587		
-0.010385373372		
-0.000000399305		
0.000216213587		

Post Process		

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

NodalDisp =						
1.00000	0.00000	0.00000	0.00022			
2.00000	-0.00260	-0.00000	0.00022			
3.00000	-0.00520	-0.00000	0.00022			
4.00000	-0.00779	-0.00000	0.00022			
5.00000	-0.01039	-0.00000	0.00022			
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	-30.52226	2.39710	1000.00000	30.52226	-2.39710	-633.73286
2.00000	-26.40554	3.62590	633.73286	26.40554	-3.62590	-316.86643
3.00000	-26.40554	3.62590	316.86643	26.40554	-3.62590	0.00000
4.00000	0.00000	-0.00000	-0.00000	-0.00000	0.00000	-0.00000
5.00000	-14.03307	-0.02430	0.00000	14.03307	0.02430	0.00883
6.00000	-12.37246	3.65019	0.00000	12.37246	-3.65019	-1.36639
7.00000	-4.11673	-1.22879	0.00000	4.11673	1.22879	0.45983

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

LocalForces =						
1.00000	2.39710	30.52226	1000.00000	-2.39710	-30.52226	-633.73286
2.00000	3.62590	26.40554	633.73286	-3.62590	-26.40554	-316.86643
3.00000	3.62590	26.40554	316.86643	-3.62590	-26.40554	0.00000
4.00000	-0.00000	-0.00000	-0.00000	0.00000	0.00000	-0.00000
5.00000	-14.03310	0.00011	0.00000	14.03310	-0.00011	0.00883
6.00000	-12.89967	-0.01627	0.00000	12.89967	0.01627	-1.36639

7.00000	-4.29620	0.00547	0.00000	4.29620	-0.00547	0.45983

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

Support =						
1.00000	-30.52226	2.39710	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	12.37246	-3.65019	-1.36639			
7.00000	18.14980	1.25309	0.46865			
sumFx = 0.000000000058261						
sumFy = -6.6613e-16						
sumMz = -0.89774						
