



Column1

GEOMETRY

Nodal Coordinates:

(Node No. - X - Y - Z)

NODES =

1.00000	0.00000	0.00000
2.00000	0.00000	25.56000
3.00000	0.00000	39.00000
4.00000	0.00000	65.04000
5.00000	0.00000	78.00000
6.00000	125.14000	49.56000
7.00000	125.14000	65.04000

(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)

3.00000	20.10000	0.00000	0.00000
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ans =

-12.514 137.654 -36.084 114.084

ANALYSIS				

kff =				
Columns 1 through 5:				
20839930.25578	-266334308.66891	-20839930.25578	0.00000	-266334308.66891
-266334308.66891	4538336619.71831	266334308.66891	0.00000	2269168309.85916
-20839930.25578	266334308.66891	164184822.18561	126.69796	-696940672.09435
0.00000	0.00000	126.69796	32919981.93462	27.46566
-266334308.66891	2269168309.85916	-696940672.09435	27.46566	13169282889.15121
0.00000	0.00000	-143344489.89557	0.00000	963274972.09821
0.00000	0.00000	0.00000	-21575223.21429	0.00000
0.00000	0.00000	-963274972.09821	0.00000	4315471875.00000
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
-143344489.89557	0.00000	-963274972.09821	0.00000	0.00000
0.00000	-21575223.21429	0.00000	0.00000	0.00000
963274972.09821	0.00000	4315471875.00000	0.00000	0.00000
163053094.19258	0.00000	706668944.15114	-19708604.29701	0.00000
0.00000	32710822.29263	0.00000	0.00000	-11135599.07834
706668944.15114	0.00000	13085624395.16129	256606027.94708	0.00000
-19708604.29701	0.00000	256606027.94708	179578353.94211	-55.98174
0.00000	-11135599.07834	0.00000	-55.98174	33509912.55972
-256606027.94708	0.00000	2227340322.58064	-779344006.80418	62.62007
0.00000	0.00000	0.00000	-159868833.11424	0.00000
0.00000	0.00000	0.00000	0.00000	-22374305.55556
0.00000	0.00000	0.00000	-1035950038.58025	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	
-256606027.94708	0.00000	0.00000	0.00000	

0.00000	0.00000	0.00000	0.00000
2227340322.58064	0.00000	0.00000	0.00000
-779344006.80418	-159868833.11424	0.00000	-1035950038.58025
62.62007	0.00000	-22374305.55556	0.00000
13405294242.19316	1035950038.58025	0.00000	4475304166.66667
1035950038.58025	159868833.11424	0.00000	1035950038.58025
0.00000	0.00000	22374305.55556	0.00000
4475304166.66667	1035950038.58025	0.00000	8950608333.33334
Number of dof: 14			
Number of loads: 1			
LOADS =			
3.00000 20.10000 0.00000 0.00000			
deg = 6			
deg = 7			
deg = 8			
P =			
0.00000			
0.00000			
0.00000			
0.00000			
0.00000			
20.10000			
0.00000			
0.00000			
0.00000			
0.00000			
0.00000			
0.00000			
0.00000			
0.00000			
uf =			
0.04894317837			
0.00063572828			
0.03269396360			
-0.00000033271			
0.00063572828			
0.02414958814			
-0.00000031485			
0.00063576981			
0.00759276897			
-0.00000028026			

0.00063584816
-0.00064782322
-0.00000028026
0.00063584816

Post Process

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

NodalDisp =
1.00000 0.04894 0.00000 0.00064
2.00000 0.03269 -0.00000 0.00064
3.00000 0.02415 -0.00000 0.00064
4.00000 0.00759 -0.00000 0.00064
5.00000 -0.00065 -0.00000 0.00064
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 3.77446 -0.00000 -0.00000 -3.77446 0.00000
2.00000 -13.13854 -0.38524 -1.31837 13.13854 0.38524 177.90038
3.00000 6.96146 -0.38524 -177.90038 -6.96146 0.38524 -3.37597
4.00000 -0.00000 -0.00000 0.00000 0.00000 0.00000 0.00000
5.00000 3.51910 0.02014 1.67980 -3.51910 -0.02014 0.83990
6.00000 3.44235 -0.40538 1.69617 -3.44235 0.40538 0.86262
7.00000 13.13854 4.15971 1.31837 -13.13854 -4.15971 0.51753

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

LocalForces =

1.00000	3.77446	-0.00000	-0.00000	-3.77446	0.00000	0.00000
2.00000	-0.38524	13.13854	-1.31837	0.38524	-13.13854	177.90038
3.00000	-0.38524	-6.96146	-177.90038	0.38524	6.96146	-3.37597
4.00000	-0.00000	0.00000	0.00000	0.00000	-0.00000	0.00000
5.00000	3.51910	0.02014	1.67980	-3.51910	-0.02014	0.83990
6.00000	3.46608	0.02029	1.69617	-3.46608	-0.02029	0.86262
7.00000	13.78130	0.01399	1.31837	-13.78130	-0.01399	0.51753

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

Support =						
1.00000	0.00000	3.77446	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	-3.44235	0.40538	0.86262			
7.00000	-16.65765	-4.17984	1.35743			
sumFx = -20.100						
sumFy = -1.7764e-15						
sumMz = 2.2200						
