



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	125.26000	25.56000
7.00000	125.26000	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	17.80000	0.00000	0.00000
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ans =

-12.526 137.786 -36.156 114.156

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	164184821.90478	126.48843	-696940672.07172
0.00000	0.00000	126.48843	32919981.82914	27.42019
-266334308.66891	2269168309.85916	-696940672.07172	27.42019	13169282886.95577
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	179578302.20156	-126.48843
0.00000	-11135599.07834	0.00000	-126.48843	33509945.44354
-256606027.94708	0.00000	2227340322.58064	-779344001.99075	59.02618
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
-779344001.99075	-159868833.11424	0.00000	-1035950038.58025
59.02618	0.00000	-22374305.55556	0.00000
13405294135.04232	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 17.80000 0.00000 0.00000			
deg = 6			
deg = 7			
deg = 8			
P =			
0.00000			
0.00000			
0.00000			
0.00000			
0.00000			
17.80000			
0.00000			
0.00000			
0.00000			
0.00000			
0.00000			
0.00000			
0.00000			
0.00000			
uf =			
0.04312911769			
0.00055360442			
0.02897898861			
-0.00000024793			
0.00055360442			
0.02153837921			
-0.00000020770			
0.00055364120			
0.00712034582			
-0.00000012976			

0.00055371062
-0.00005574386
-0.00000012976
0.00055371062

Post Process

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

NodalDisp =
1.00000 0.04313 0.00000 0.00055
2.00000 0.02898 -0.00000 0.00055
3.00000 0.02154 -0.00000 0.00055
4.00000 0.00712 -0.00000 0.00055
5.00000 -0.00006 -0.00000 0.00055
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 2.81271 0.00000 -0.00000 -2.81271 0.00000
2.00000 -11.63759 -0.86796 -1.14310 11.63759 0.86796 157.55234
3.00000 6.16241 -0.86796 -157.55234 -6.16241 0.86796 -2.91676
4.00000 -0.00000 0.00000 0.00000 0.00000 -0.00000 0.00000
5.00000 3.29698 0.01750 1.46141 -3.29698 -0.01750 0.73070
6.00000 2.86543 -0.88546 1.45535 -2.86543 0.88546 0.75844
7.00000 11.63759 3.68068 1.14310 -11.63759 -3.68068 0.44632

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

LocalForces =

1.00000	2.81271	-0.00000	0.00000	-2.81271	0.00000	0.00000
2.00000	-0.86796	11.63759	-1.14310	0.86796	-11.63759	157.55234
3.00000	-0.86796	-6.16241	-157.55234	0.86796	6.16241	-2.91676
4.00000	0.00000	0.00000	0.00000	-0.00000	-0.00000	0.00000
5.00000	3.29698	0.01750	1.46141	-3.29698	-0.01750	0.73070
6.00000	2.99907	0.01686	1.45535	-2.99907	-0.01686	0.75844
7.00000	12.20577	0.01210	1.14310	-12.20577	-0.01210	0.44632

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

Support =						
1.00000	0.00000	2.81271	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	-2.86543	0.88546	0.75844			
7.00000	-14.93457	-3.69818	1.17702			
sumFx = -17.800						
sumFy = -3.5527e-15						
sumMz = 1.9355						
