



Column1

GEOMETRY

Nodal Coordinates:

(Node No. - X - Y - Z)

NODES =

1.00000	0.00000	0.00000
2.00000	0.00000	27.00000
3.00000	0.00000	39.00000
4.00000	0.00000	66.00000
5.00000	0.00000	78.00000
6.00000	86.50000	27.00000
7.00000	86.50000	66.00000

(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	1.00000	29000.00000	10.00000	14.25000
6.00000	4.00000	6.00000	1.00000	29000.00000	10.00000	14.25000
7.00000	2.00000	7.00000	1.00000	29000.00000	10.00000	14.25000

(Node No. - F_x - F_y - M_z)

1 0 0 1000

ans =

-8.6500 95.1500 -12.9000 90.9000

ANALYSIS				

kff =				
Columns 1 through 5:				
17680213.99177	-238682888.88889	-17680213.99177	0.00000	-238682888.88889
-238682888.88889	4296292000.00000	238682888.88889	0.00000	2148146000.00000
-17680213.99177	238682888.88889	219071441.72250	1144.65203	-969649236.11111
0.00000	0.00000	1144.65203	34904434.20378	0.00000
-238682888.88889	2148146000.00000	-969649236.11111	0.00000	13962949000.00000
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	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
219068901.49177	0.00000	969649236.11111	-17680213.99177	0.00000
0.00000	34903916.66667	0.00000	0.00000	-10739666.66667
969649236.11111	0.00000	13962949000.00000	238682888.88889	0.00000
-17680213.99177	0.00000	238682888.88889	219074794.32366	-1144.65203
0.00000	-10739666.66667	0.00000	-1144.65203	34904436.11930
-238682888.88889	0.00000	2148146000.00000	-969649236.11111	0.00000
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	
-238682888.88889	0.00000	0.00000	0.00000	

0.00000	0.00000	0.00000	0.00000
2148146000.00000	0.00000	0.00000	0.00000
-969649236.11111	-201388687.50000	0.00000	-1208332125.00000
0.00000	0.00000	-24164250.00000	0.00000
13962949000.00000	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	9666657000.00000
Number of dof: 14			
Number of loads: 1			
LOADS =			
1 0 0 1000			
deg = 1			
deg = 2			
P =			
0			
1000			
0			
0			
0			
0			
0			
0			
0			
0			
0			
0			
0			
0			
uf =			
0.0201206403			
0.0003717978			
0.0100946688			
-0.0000015395			
0.0003708668			
0.0056464958			
-0.0000017456			
0.0003705166			
-0.0043516521			
-0.0000022093			
0.0003701943			

-0.0087939843
-0.0000022093
0.0003701943

Post Process

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

NodalDisp =
1.00000 0.02012 0.00000 0.00037
2.00000 0.01009 -0.00000 0.00037
3.00000 0.00565 -0.00000 0.00037
4.00000 -0.00435 -0.00000 0.00037
5.00000 -0.00879 -0.00000 0.00037
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 16.53407 1000.00000 -0.00000 -16.53407 -1000.00000
2.00000 -25.64103 4.97998 1000.00000 25.64103 -4.97998 -692.30769
3.00000 -25.64103 4.97998 692.30769 25.64103 -4.97998 0.00000
4.00000 -0.00000 0.00000 -0.00000 0.00000 0.00000 0.00000
5.00000 -14.58935 -0.00000 0.00000 14.58935 0.00000 -0.00037
6.00000 -11.05167 4.97998 0.00000 11.05167 -4.97998 -0.24657
7.00000 25.64103 11.55409 0.00000 -25.64103 -11.55409 -0.57153

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

LocalForces =

1.00000	16.53407	-0.00000	1000.00000	-16.53407	0.00000	-1000.00000
2.00000	4.97998	25.64103	1000.00000	-4.97998	-25.64103	-692.30769
3.00000	4.97998	25.64103	692.30769	-4.97998	-25.64103	0.00000
4.00000	0.00000	0.00000	-0.00000	0.00000	-0.00000	0.00000
5.00000	-14.58935	-0.00000	0.00000	14.58935	0.00000	-0.00037
6.00000	-12.12187	-0.00260	0.00000	12.12187	0.00260	-0.24657
7.00000	28.12399	-0.00602	0.00000	-28.12399	0.00602	-0.57153

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

Support =						
1.00000	0.00000	16.53407	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	11.05167	-4.97998	-0.24657			
7.00000	-11.05167	-11.55408	-0.57190			
sumFx = -0.00000000022112						
sumFy = -3.0198e-14						
sumMz = -0.81847						
