



## Column1

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### GEOMETRY

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Nodal Coordinates:

(Node No. - X - Y - Z)

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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

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(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	2.00000	2.85000
6.00000	4.00000	6.00000	1.00000	29000.00000	2.00000	2.85000
7.00000	2.00000	7.00000	1.00000	29000.00000	2.00000	2.85000

(Node No. -  $F_x$  -  $F_y$  -  $M_z$ )

1 0 0 1000

ans =

-12.526 137.786 -36.156 114.156

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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	164184821.87511	126.58257	-696940663.42930
0.00000	0.00000	126.58257	32919981.53045	0.00000
-266334308.66891	2269168309.85916	-696940663.42930	0.00000	13169280369.71831
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	179578302.17188	-126.58257
0.00000	-11135599.07834	0.00000	-126.58257	33509944.76636
-256606027.94708	0.00000	2227340322.58064	-779344010.63317	0.00000
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
-779344010.63317	-159868833.11424	0.00000	-1035950038.58025
0.00000	0.00000	-22374305.55556	0.00000
13405288978.49463	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 =			
1 0 0 1000			
deg = 1			
deg = 2			
P =			
0			
1000			
0			
0			
0			
0			
0			
0			
0			
0			
0			
0			
0			
0			
uf =			
0.1228587576			
0.0023403055			
0.0630518131			
-0.0000010303			
0.0023394241			
0.0316127139			
-0.0000012022			
0.0023390396			
-0.0292907353			
-0.0000015351			
0.0023387434			

-0.0596008502
-0.0000015351
0.0023387434
*****
Post Process
*****
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Nodal Displacements:
(Node No. - Tx - Ty - Rz)
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NodalDisp =
1.00000 0.12286 0.00000 0.00234
2.00000 0.06305 -0.00000 0.00234
3.00000 0.03161 -0.00000 0.00234
4.00000 -0.02929 -0.00000 0.00234
5.00000 -0.05960 -0.00000 0.00234
6.00000 0.00000 0.00000 0.00000
7.00000 0.00000 0.00000 0.00000
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Global Member Forces:
(Element No. - iFx - iFy - iMz - jFx - jFy - jMz)
-----
GlobalForces =
1.00000 0.00000 11.68885 1000.00000 -0.00000 -11.68885 -1000.00000
2.00000 -25.32928 3.70763 1000.00000 25.32928 -3.70763 -659.57447
3.00000 -25.32928 3.70763 659.57447 25.32928 -3.70763 0.00000
4.00000 0.00000 0.00000 -0.00000 -0.00000 0.00000 -0.00000
5.00000 -13.56269 -0.00000 0.00000 13.56269 0.00000 -0.00002
6.00000 -11.76659 3.70764 0.00000 11.76659 -3.70764 -0.12659
7.00000 25.32928 7.98122 0.00000 -25.32928 -7.98122 -0.27247
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Local Member Forces:
(Element No. - iFx - iFy - iMz - jFx - jFy - jMz)
-----
LocalForces =

1.00000	11.68885	-0.00000	1000.00000	-11.68885	0.00000	-1000.00000
2.00000	3.70763	25.32928	1000.00000	-3.70763	-25.32928	-659.57447
3.00000	3.70763	25.32928	659.57447	-3.70763	-25.32928	0.00000
4.00000	0.00000	-0.00000	-0.00000	0.00000	0.00000	-0.00000
5.00000	-13.56269	-0.00000	0.00000	13.56269	0.00000	-0.00002
6.00000	-12.33690	-0.00096	0.00000	12.33690	0.00096	-0.12659
7.00000	26.55696	-0.00207	0.00000	-26.55696	0.00207	-0.27247
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Nodal Support Reactions:						
(Node No. - Fx - Fy - Mz)						
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Support =						
1.00000	0.00000	11.68885	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	11.76659	-3.70764	-0.12659			
7.00000	-11.76659	-7.98122	-0.27250			
sumFx = 0.0000000018010						
sumFy = 0						
sumMz = -0.39909						
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