

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 27.00000						
4.00000 0.00000 41.04000						
5.00000 0.00000 54.00000						
6.00000 104.50000 25.56000						
7.00000 104.50000 41.04000						
4.00000 0.00000 41.04000 5.00000 0.00000 54.00000 6.00000 104.50000 25.56000						

Βοι	Boundary Conditions: 1 = Restrained, 0 = Free									
(No	de N	ე	Tx - Ty - Rz)							
BOI	JNDS	=								
	01100									
1	0 1	_								
	6 1 1 1									
/	7 1 1 1									
Elei	ment	Inf	ormation:							
(Ele	No.	· iN	ode - jNode - M	lember Type	- E - A - I)					
					,					
ELE	S =									
LLL	<i>J</i> –									
	4.00	00	1 00000	2.00000	0.00000	20000 00000	0000 00000	000000 00000		
	1.00			2.00000	0.00000	29000.00000	9999.00000			
	2.00			3.00000	0.00000	29000.00000	9999.00000			
	3.00	00	3.00000	4.00000	0.00000	29000.00000	9999.00000	999999.00000		
	4.00	00	4.00000	5.00000	0.00000	29000.00000	9999.00000	999999.00000		
	5.00	00	4.00000	7.00000	0.00000	29000.00000	2.00000	2.85000		
	6.00	00	4.00000	6.00000	0.00000	29000.00000	2.00000	2.85000		
	7.00	00	2.00000	7.00000	0.00000	29000.00000	2.00000	2.85000		
1.00	عدا ام		ation:							
(No	de N	ე	Fx - Fy - Mz)							
LOA	ADS =									
	5.000	00	0.00000	0.00000 102	9.60000					
nlo	tFile =		/1 OUTPUT/C)esign3∩vertı	urning nng					
	plotFile =//1. OUTPUT/Design3Overturning.png									
alls	ans =									
	0.45		14.050 25.50	0 00 700						
-1	.0.45() [.14.950 -35.70	0 89.700						
***	*************************									

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ANALYSIS
************
kff =
 Columns 1 through 9:
   2.0840e+07 -2.6633e+08 -2.0840e+07 0.0000e+00 -2.6633e+08 0.0000e+00 0.0000e+00 0.0000e+00 0.0000e+00
  -2.6633e+08 4.5383e+09 2.6633e+08 0.0000e+00 2.2692e+09 0.0000e+00 0.0000e+00 0.0000e+00 0.0
  -2.0840e+07 2.6633e+08 1.1657e+11 7.9462e+01 -8.3646e+10 -1.1654e+11 0.0000e+00 -8.3912e+10 0.0000e+00
   0.0000e+00 0.0000e+00 7.9462e+01 2.1271e+08 4.3956e+01 0.0000e+00 -2.0137e+08 0.0000e+00 0.0
  -2.6633e+08 2.2692e+09 -8.3646e+10 4.3956e+01 8.5094e+10 8.3912e+10 0.0000e+00 4.0278e+10 0.0
   0.0000e+00 0.0000e+00 -1.1654e+11 0.0000e+00 8.3912e+10 1.1667e+11 0.0000e+00 8.3029e+10 -1...
   0.0000e+00 0.0000e+00 0.0000e+00 -2.0137e+08 0.0000e+00 0.0000e+00 2.2202e+08 0.0000e+00 0.0
   0.0000e+00 0.0000e+00 -8.3912e+10 0.0000e+00 4.0278e+10 8.3029e+10 0.0000e+00 8.8818e+10 8.8
   0.0000e+00 0.0000e+00 0.0000e+00 0.0000e+00 -1.2574e+08 0.0000e+00 8.8270e+08 2.8
   0.0000e+00 0.0000e+00 0.0000e+00 0.0000e+00 0.0000e+00 0.0000e+00 -2.0653e+07 0.0000e+00 -7.5
   0.0000e+00 0.0000e+00 0.0000e+00 0.0000e+00 -8.8270e+08 0.0000e+00 4.1311e+09 -1.
   0.0000e+00 0.0000e+00 0.0000e+00 0.0000e+00 0.0000e+00 0.0000e+00 0.0000e+00 0.0000e+00 -1.5
   0.0000e+00 0.0000e+000
   0.0000e+00 \quad 0.0
 Columns 10 through 14:
   0.0000e+00 0.0000e+00 0.0000e+00 0.0000e+00 0.0000e+00
   0.0000e+00 -8.8270e+08 0.0000e+00 0.0000e+00 0.0000e+00
  -2.0653e+07  0.0000e+00  0.0000e+00  0.0000e+00  0.0000e+00
   0.0000e+00 4.1311e+09 0.0000e+00 0.0000e+00 0.0000e+00
  -7.9462e+01 -1.5325e+08 -1.5987e+08 0.0000e+00 -1.0360e+09
   4.3028e+07 8.9367e+01 0.0000e+00 -2.2374e+07 0.0000e+00
   8.9367e+01 1.7213e+10 1.0360e+09 0.0000e+00 4.4753e+09
   0.0000e+00 1.0360e+09 1.5987e+08 0.0000e+00 1.0360e+09
  -2.2374e+07 0.0000e+00 0.0000e+00 2.2374e+07 0.0000e+00
   0.0000e+00 4.4753e+09 1.0360e+09 0.0000e+00 8.9506e+09
Number of dof: 14
Number of loads: 1
LOADS =
        5.00000
                                    0.00000
                                                                 0.00000 1029.60000
deg = 12
deg = 13
```

deg = 14
P =
0.0000
0.0000
0.0000
0.0000
0.0000
0.0000
0.0000
0.0000
0.0000
0.0000
0.0000
0.0000
0.0000
1029.60000
uf =
0.3873580090
0.0107790083
0.1118465576
-0.000012954
0.0107790083
0.0963247834
-0.000013219
0.0107790121
-0.0550139064
-0.000015802
0.0107792739
-0.1947162774
-0.0000015802
0.0107797340

Post Process

Nodal Displacements:
(Node No Tx - Ty - Rz)
NodalDisp =
1.00000 0.38736 0.00000 0.01078

```
2.00000 0.11185 -0.00000 0.01078
 3.00000 0.09632 -0.00000 0.01078
 4.00000 -0.05501 -0.00000 0.01078
 5.00000 -0.19472 -0.00000 0.01078
 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 =
 1.0000e+00 -9.3132e-10 1.4696e+01 7.4506e-09 9.3132e-10 -1.4696e+01 2.2352e-08
 2.0000e+00 -6.0021e+01 5.3348e+00 -3.3004e+01 6.0021e+01 -5.3348e+00 1.1943e+02
 3.0000e+00 -6.0021e+01 5.3348e+00 -1.1943e+02 6.0021e+01 -5.3348e+00 9.6212e+02
 4.0000e+00 -5.5879e-09 1.4211e-14 -1.0296e+03 5.5879e-09 -1.4211e-14 1.0296e+03
 5.0000e+00 -3.0534e+01 4.8950e-01 3.4102e+01 3.0534e+01 -4.8950e-01 1.7051e+01
 6.0000e+00 -2.9487e+01 4.8453e+00 3.3375e+01 2.9487e+01 -4.8453e+00 1.6509e+01
 7.0000e+00 6.0021e+01 9.3613e+00 3.3004e+01 -6.0021e+01 -9.3613e+00 1.6138e+01
Local Member Forces:
(Element No. - iFx - iFy - iMz - jFx - jFy - jMz)
LocalForces =
 1.0000e+00 1.4696e+01 9.3132e-10 7.4506e-09 -1.4696e+01 -9.3132e-10 2.2352e-08
 2.0000e+00 5.3348e+00 6.0021e+01 -3.3004e+01 -5.3348e+00 -6.0021e+01 1.1943e+02
 3.0000e+00 5.3348e+00 6.0021e+01 -1.1943e+02 -5.3348e+00 -6.0021e+01 9.6212e+02
 4.0000e+00 1.4211e-14 5.5879e-09 -1.0296e+03 -1.4211e-14 -5.5879e-09 1.0296e+03
 5.0000e+00 -3.0534e+01 4.8950e-01 3.4102e+01 3.0534e+01 -4.8950e-01 1.7051e+01
 6.0000e+00 -2.9878e+01 4.7220e-01 3.3375e+01 2.9878e+01 -4.7220e-01 1.6509e+01
 7.0000e+00 6.0744e+01 4.6519e-01 3.3004e+01 -6.0744e+01 -4.6519e-01 1.6138e+01
Nodal Support Reactions:
(Node No. - Fx - Fy - Mz)
Support =
 1.00000 0.00000 14.69616 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	29.48655	-4.84532	16.50851			
7.00000	-29.48655	-9.85085	33.18882			
sumFx = 0	.000004146	51				
sumFy =	3.5527e-15					
sumMz = 4	19.697					

0000e+00

000e+00

0000e+00

0000e+00

0000e+00

2574e+08

000e+00

3270e+08

3561e+08

....

9462e+01

5325e+08

5987e+08

)000e+00

0360e+09