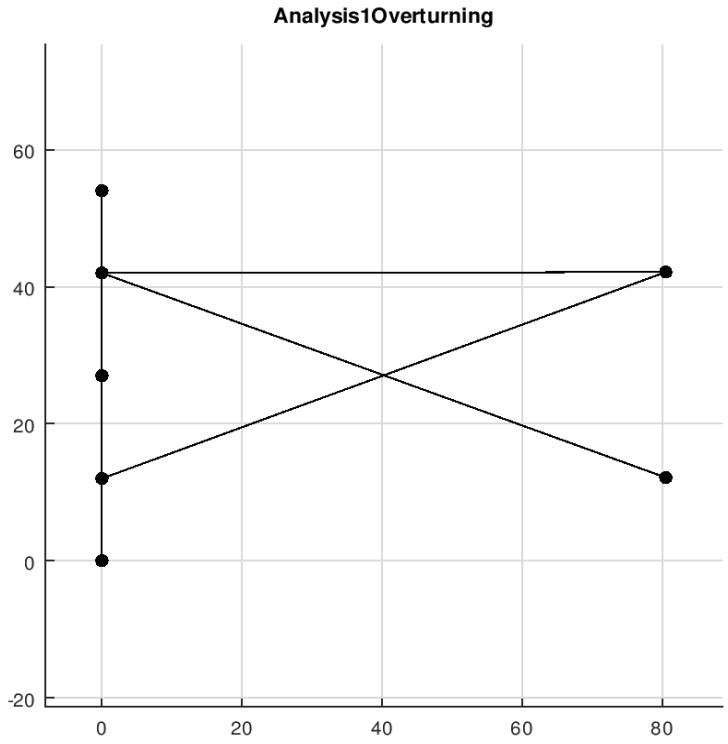
Analysis1Overturning



Column1
****
GEOMETRY
****

Nodal Coordinates:
(Node No. - X - Y - Z)

NODES =
1.00000 0.00000 0.00000
2.00000 0.00000 12.00000
3.00000 0.00000 27.00000
4.00000 0.00000 42.00000
5.00000 0.00000 54.00000
6.00000 80.50000 12.14000
7.00000 80.50000 42.14000

```
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Boundary Conditions: 1 = Restrained, 0 = Free
(Node No. - Tx - Ty - Rz)
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BOUNDS =

  1   1   1   0
  6   1   1   1
  7   1   1   1

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Element Information:
(Ele No. - iNode - jNode - Member Type - E - A - I)
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ELES =

     1     1     2     0    29000    9999   999999
     2     2     3     0    29000    9999   999999
     3     3     4     0    29000    9999   999999
     4     4     5     0    29000    9999   999999
     5     4     7     0    29000       5       50
     6     4     6     0    29000       5       50
     7     2     7     0    29000       5       50

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Load Information:
(Node No. - Fx - Fy - Mz)
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LOADS =

     5     0     0  1080

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plotFile = ../../1. OUTPUT/Analysis1Overturning.png
ans =

  -8.0500   88.5500  -21.3000   75.3000

**************************************
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ANALYSIS

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kff =

Columns 1 through 5:

9666657000.00000	1208332125.00000	0.00000	4833328500.00000	0.00000
1208332125.00000	304501178.35278	544.93718	434999152.13019	-103111008.00000
0.00000	544.93718	43495881.42670	1102.72130	0.00000
4833328500.00000	434999152.13019	1102.72130	17400050075.30717	773332560.00000
0.00000	-103111008.00000	0.00000	773332560.00000	206222016.00000
0.00000	0.00000	-19331400.00000	0.00000	0.00000
0.00000	-773332560.00000	0.00000	3866662800.00000	0.00000
0.00000	0.00000	0.00000	0.00000	-103111008.00000
0.00000	0.00000	0.00000	0.00000	0.00000
0.00000	0.00000	0.00000	0.00000	-773332560.00000
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	-773332560.00000	0.00000	0.00000	0.00000
-19331400.00000	0.00000	0.00000	0.00000	0.00000
0.00000	3866662800.00000	0.00000	0.00000	0.00000
0.00000	0.00000	-103111008.00000	0.00000	-773332560.00000
38662800.00000	0.00000	0.00000	-19331400.00000	0.00000
0.00000	15466651200.00000	773332560.00000	0.00000	3866662800.00000
0.00000	773332560.00000	304502984.60387	-538.62633	-434999156.90154
-19331400.00000	0.00000	-538.62633	43495911.78478	2449.02769
0.00000	3866662800.00000	-434999156.90154	2449.02769	17400122201.72976
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

Columns 11 through 13:

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
-201388687.50000	0.00000	-1208332125.00000

```
         0.00000    -24164250.00000           0.00000
  1208332125.00000           0.00000   4833328500.00000
   201388687.50000           0.00000   1208332125.00000
         0.00000     24164250.00000           0.00000
  1208332125.00000           0.00000   9666657000.00000

Number of dof: 13
Number of loads: 1
LOADS =

    5     0     0  1080

deg =  11
deg =  12
deg =  13
P =

     0
     0
     0
     0
     0
     0
     0
     0
     0
     0
     0
  1080

uf =

   0.00017397831
  -0.00208800947
  -0.00000014169
   0.00017404576
  -0.00470047489
  -0.00000036773
   0.00017431400
  -0.00731836051
  -0.00000059377
   0.00017476845
  -0.00941826327
  -0.00000059377
   0.00017521535
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Post Process

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Nodal Displacements:

(Node No. - Tx - Ty - Rz)

NodalDisp =

1.00000	0.00000	0.00000	0.00017
2.00000	-0.00209	-0.00000	0.00017
3.00000	-0.00470	-0.00000	0.00017
4.00000	-0.00732	-0.00000	0.00017
5.00000	-0.00942	-0.00000	0.00018
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	-27.16735	3.42378	0.00000	27.16735	-3.42378	326.00822
2.00000	-23.99921	4.36972	-338.61393	23.99921	-4.36972	698.60201
3.00000	-23.99921	4.36972	-698.60201	23.99921	-4.36972	1058.59009
4.00000	-0.00000	0.00000	-1080.00000	0.00000	0.00000	1080.00000
5.00000	-13.18249	0.21211	12.60828	13.18249	-0.21211	6.31229
6.00000	-10.81671	4.15761	8.80163	10.81671	-4.15761	2.89864
7.00000	-3.16815	-0.94594	12.60571	3.16815	0.94594	6.73382

Local Member Forces:

(Element No. - iFx - iFy - iMz - jFx - jFy - jMz)

LocalForces =

1.00000	3.42378	27.16735	0.00000	-3.42378	-27.16735	326.00822
2.00000	4.36972	23.99921	-338.61393	-4.36972	-23.99921	698.60201
3.00000	4.36972	23.99921	-698.60201	-4.36972	-23.99921	1058.59009
4.00000	0.00000	0.00000	-1080.00000	0.00000	-0.00000	1080.00000

5.00000	-13.18210	0.23504	12.60828	13.18210	-0.23504	6.31229
6.00000	-11.58743	0.13627	8.80163	11.58743	-0.13627	2.89864
7.00000	-3.29869	0.22499	12.60571	3.29869	-0.22499	6.73382

Nodal Support Reactions:

(Node No. - Fx - Fy - Mz)

Support =

1.00000	-27.16735	3.42378	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	10.81671	-4.15761	2.89864
7.00000	16.35064	0.73383	13.04610

sumFx = -0.00000000058366

sumFy = -7.1054e-15

sumMz = 15.945
