

SPREADSHEET SOLUTIONS	Project: GOBEAM 081 VERIFICATION	Engineer:	Project #
		Date: 1-Jun	
GoBeam! www.yakpol.net	Subject: CONTINUOUS BEAM ANALYSIS	Checker:	Page:
		Date:	

Length units: **ft**

Force units: **kip**

Beam modulus of elasticity: **650000** kip/ft<sup>2</sup>

Column modulus of elasticity: **650000** kip/ft<sup>2</sup>

Beam restraints

Left End      Right End

Support      Free

Sway Frame

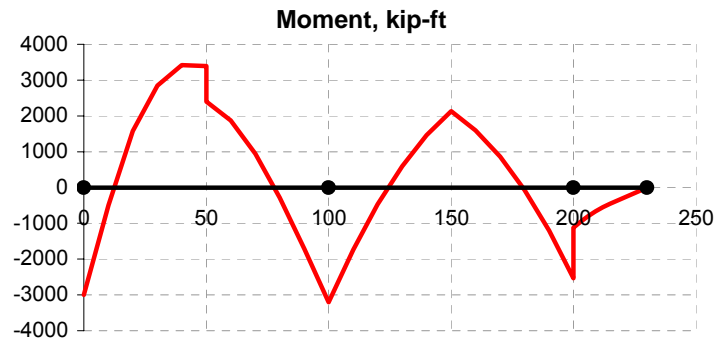
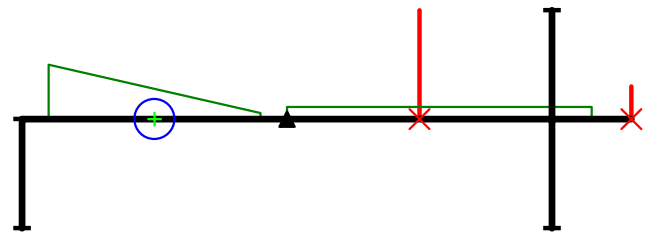
No intermediate points in span: 10

Maximum No. of spans: 6

Span No.	1	2	3			
Length, ft	100	100	30			
Moment Intertia, ft <sup>4</sup>	5	2	5			

Support No.	1	2	3	4			
Support coordintate, ft	0	100	200	230			
Vertical spring constant, kip/ft		1000	2000				
Support type:	Column	Roller	Column				
Column under Length, ft	30		30				
Moment Intertia, ft <sup>4</sup>	3		1				
Column above Length, ft			30				
Moment Intertia, ft <sup>4</sup>			1				
Support displacements, ft							

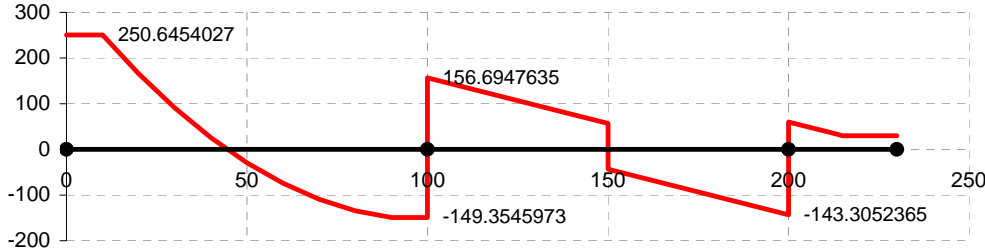
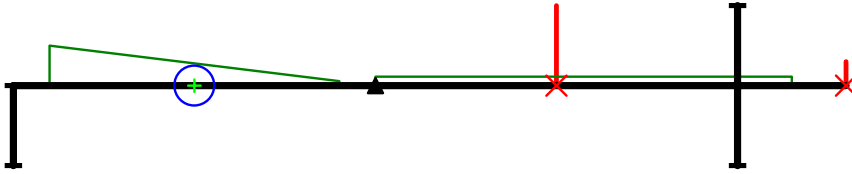
Help with Loads		Static Loads positive: ↑ ↻			
Comment	Load Type	WA	WB	LA	LB
		kip and ft	kip/ft	ft	ft
	Linear	-9	-1	10	90
	Linear	-2	-2	100	215
	P	-100		150	
	P	-30		230	
	M	1000		50	



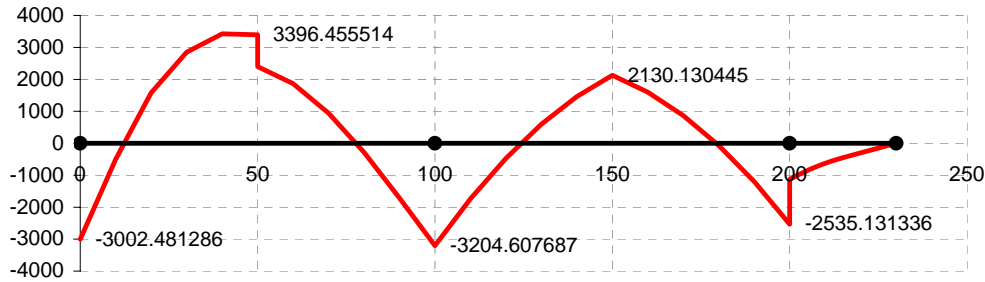
Type of Analysis: Static Loads

SPREADSHEET SOLUTIONS	Project: GOBEAM 081 VERIFICATION	Engineer:	Project #
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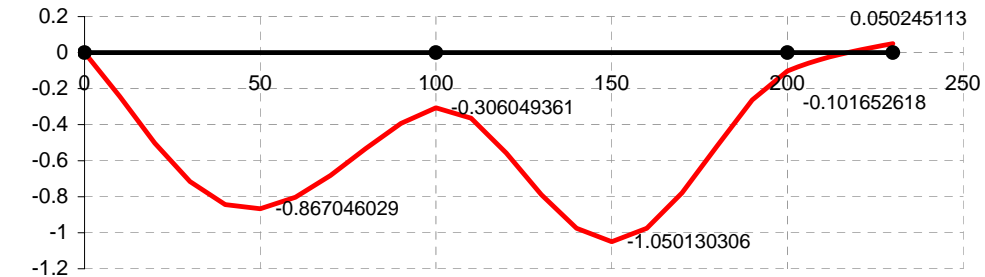
**FORCE AND DISPLACEMENTS DIAGRAMS DUE TO STATIC LOADS**



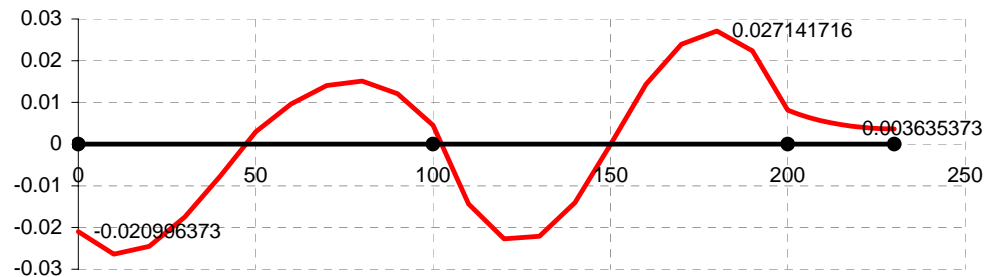
Shear, kip	
Max =	250.6454
Min =	-149.3546
Area =	2659.0165
A (+) =	12970.343
A (-) =	-10311.327



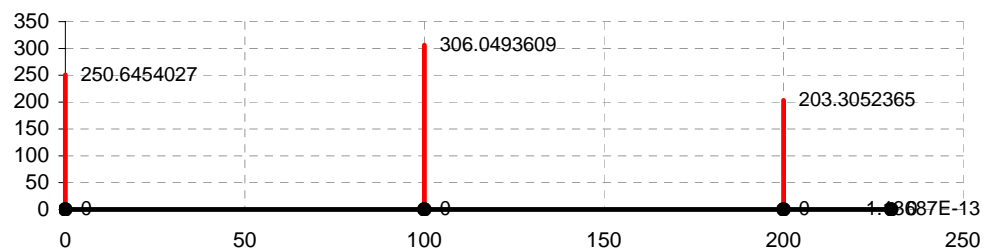
Moment, kip*ft	
Max =	3423.3348
Min =	-3204.6077
Area =	68011.107
A (+) =	197486.89
A (-) =	-129475.79



Deflections, ft	
Max =	0.0502451
Min =	-1.0501303
Area =	-122.56606
A (+) =	0.3344727
A (-) =	-122.90053



Rotations, rad	
Max =	2.714E-02
Min =	-2.638E-02
Area =	0.0568079
A (+) =	1.6269112
A (-) =	-1.5701033



Reactions, kip	
Max =	306.04936
Min =	1.137E-13
Total =	760

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ANALYSIS RESULTS				
X	Shear	Moment	Deflections	Rotations
0	250.645	-3002.5	0	-0.021
1E-06	250.645	-3002.5	0	-0.021
10	250.645	-496.03	-0.243302	-0.02638
20	165.645	1577.09	-0.502995	-0.0245
30	90.6454	2850.21	-0.716213	-0.01749
40	25.6454	3423.33	-0.843527	-0.00768
50	-29.355	3396.46	-0.867046	0.00296
50	-29.355	2396.46	-0.867046	0.00296
60	-74.355	1869.58	-0.802725	0.00964
70	-109.35	942.697	-0.681905	0.01405
80	-134.35	-284.18	-0.532848	0.01513
90	-149.35	-1711.1	-0.393048	0.0121
100	-149.35	-3204.6	-0.306049	0.00454
100	-149.35	-3204.6	-0.306049	0.00454
100	156.695	-3204.6	-0.306049	0.00454
110	136.695	-1737.7	-0.3645	-0.01434
120	116.695	-470.71	-0.557898	-0.02271
130	96.6948	596.235	-0.788787	-0.0221
140	76.6948	1463.18	-0.975094	-0.01405
150	56.6948	2130.13	-1.05013	-0.0001
150	-43.305	2130.13	-1.05013	-0.0001
160	-63.305	1597.08	-0.975413	0.01436
170	-83.305	864.026	-0.779126	0.02396
180	-103.31	-69.027	-0.517657	0.02714
190	-123.31	-1202.1	-0.26278	0.02238
200	-143.31	-2535.1	-0.101653	0.00814
200	-143.31	-2535.1	-0.101653	0.00814
200	60	-1125	-0.101653	0.00814
203	54	-954	-0.078723	0.00718
206	48	-801	-0.05844	0.00637
209	42	-666	-0.040379	0.00569
212	36	-549	-0.024166	0.00513
215	30	-450	-0.009478	0.00467
218	30	-360	0.003962	0.0043
221	30	-270	0.016405	0.00401
224	30	-180	0.028101	0.0038
227	30	-90	0.039297	0.00368
230	30	-3E-05	0.050245	0.00364
230	30	-2E-12	0.050245	0.00364

Horizontal sway displacements = 0.18897

	Max	Min	Area	Area(+)	Area(-)
Shear	250.645	-149.35	2659.02	12970.3	-10311
Moment	3423.33	-3204.6	68011.1	197487	-129476
Deflections	0.05025	-1.0501	-122.57	0.33447	-122.9
Rotations	0.02714	-0.0264	0.05681	1.62691	-1.5701
Reactions	306.049	1.1E-13			

Reactions	
X	R
0	250.645
100	306.049
200	203.305
230	1.1E-13

$\Sigma R = 760$

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# Sun Jun 1 20:40:29 2008

1GTICES/C-NP 2.5.0 MD-NT 2.0, January 1995.  
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CI-i-audfile, Command AUDIT file FILE2040.aud has been activated.

```
*** G T S T R U D L Student Edition ***
  RELEASE DATE        VERSION        COMPLETION NO.
  August, 2007        SE10 Student Ed    Ver 10.0

**** ACTIVE UNITS - LENGTH WEIGHT ANGLE TEMPERATURE TIME
**** ASSUMED TO BE   INCH  POUND  RADIAN  FAHRENHEIT  SECOND
```

```
{ 1} > $ -----
{ 2} > $ This is the Common Startup Macro; put your company-wide startup commands here.
{ 3} > $ You can edit this file from Tools -- Macros. Click "Startup" and then "Edit".
{ 4} > $ -----
{ 5} > CINPUT 'D:\Backup\Projects\contbeam\verification\BEAM.GTI'
{ 6} > *TITLE 'VERIFICATION OF GoBeam! ANALYSIS'
{ 7} > STRUDL 'THREE-SPAN BEAM PLUS CANTILEVER'
```

```
*****
*                                     GTSTRUDL Student Edition                          *
* ***                               For Non-commercial Use Only                        *
* ***                               **                                               *
* ***                               **                                               *
* ***                               **                                               *
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*                                     GEORGIA TECH RESEARCH CORPORATION                 *
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* ***                               **                                               *
* ***                               **                                               *
* ***                               **                                               *
*****
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```
**** ACTIVE UNITS - LENGTH WEIGHT ANGLE TEMPERATURE TIME
**** ASSUMED TO BE   INCH  POUND  RADIAN  FAHRENHEIT  SECOND
```

```
{ 8} >
{ 9} > UNITS FEET KIP RADIANS
{10} >
{11} > TYPE PLANE FRAME
{12} >
{13} > JOINT COORDINATES
{14} >
{15} > 100 0 0
{16} > 200 100 0 SUPPORT
{17} > 300 200 0
{18} > 400 230 0
{19} > 1100 0 -30 SUPPORT
{20} > 1300 200 -30 SUPPORT
{21} > 2300 200 30 SUPPORT
{22} >
```

```

23} >
24} > JOINT RELEASE
25} >
26} > 200 KFX 0 KFY 1000 KMZ 0
27} > 1300 2300 KFY 1000
28} >
29} >
30} > PRINT GENERATE OFF
31} > GENERATE BETWEEN 100 200 ID 101 INC 1
32} > XDIR 10 EQUAL PARTS
33} > REP 2 TIMES JOINT INC 100 ID INC 100
34} > GENERATE 9 MEMB ID 101 INC 1 FROM 100 INC 1 TO 101
35} > MEMBER INCI; 110 109 200
36} > GENERATE 9 MEMB ID 201 INC 1 FROM 200 INC 1 TO 201
37} > MEMBER INCI; 210 209 300
38} > GENERATE 9 MEMB ID 301 INC 1 FROM 300 INC 1 TO 301
39} > MEMBER INCI; 310 309 400
40} >
41} >
42} > MEMBER INCI
43} > 1100 1100 100
44} > 1300 1300 300
45} > 2300 2300 300
46} >
47} > PRINT JOINT COORDINATES
    
```

1  
 \*\*\*\*\*  
 \* PROBLEM DATA FROM INTERNAL STORAGE \*  
 \*\*\*\*\*

JOB ID - THREE-SP      JOB TITLE - GTSTRUDL Student Edition: Version 10.0 August, 2007

ACTIVE UNITS	LENGTH FEET	WEIGHT KIP	ANGLE RAD	TEMPERATURE DEGF	TIME SEC
JOINT COORDINATES-----/					
JOINT	X	Y	Z	CONDITION	
100	0.000	0.000	0.000	FREE	GLOBAL
200	100.000	0.000	0.000	SUPPORT	GLOBAL
300	200.000	0.000	0.000	FREE	GLOBAL
400	230.000	0.000	0.000	FREE	GLOBAL
1100	0.000	-30.000	0.000	SUPPORT	GLOBAL
1300	200.000	-30.000	0.000	SUPPORT	GLOBAL
2300	200.000	30.000	0.000	SUPPORT	GLOBAL
101	10.000	0.000	0.000	FREE	GLOBAL
102	20.000	0.000	0.000	FREE	GLOBAL
103	30.000	0.000	0.000	FREE	GLOBAL
104	40.000	0.000	0.000	FREE	GLOBAL
105	50.000	0.000	0.000	FREE	GLOBAL
106	60.000	0.000	0.000	FREE	GLOBAL
107	70.000	0.000	0.000	FREE	GLOBAL
108	80.000	0.000	0.000	FREE	GLOBAL
109	90.000	0.000	0.000	FREE	GLOBAL
201	110.000	0.000	0.000	FREE	GLOBAL
202	120.000	0.000	0.000	FREE	GLOBAL
203	130.000	0.000	0.000	FREE	GLOBAL
204	140.000	0.000	0.000	FREE	GLOBAL
205	150.000	0.000	0.000	FREE	GLOBAL
206	160.000	0.000	0.000	FREE	GLOBAL
207	170.000	0.000	0.000	FREE	GLOBAL
208	180.000	0.000	0.000	FREE	GLOBAL
209	190.000	0.000	0.000	FREE	GLOBAL
301	203.000	0.000	0.000	FREE	GLOBAL
302	206.000	0.000	0.000	FREE	GLOBAL
303	209.000	0.000	0.000	FREE	GLOBAL
304	212.000	0.000	0.000	FREE	GLOBAL
305	215.000	0.000	0.000	FREE	GLOBAL
306	218.000	0.000	0.000	FREE	GLOBAL
307	221.000	0.000	0.000	FREE	GLOBAL
308	224.000	0.000	0.000	FREE	GLOBAL
309	227.000	0.000	0.000	FREE	GLOBAL

\*\*\*\*\*  
 \* END OF DATA FROM INTERNAL STORAGE \*  
 \*\*\*\*\*

```
{ 48} > PRINT MEMBER INCI
```

1  
 \*\*\*\*\*  
 \* PROBLEM DATA FROM INTERNAL STORAGE \*  
 \*\*\*\*\*

JOB ID - THREE-SP      JOB TITLE - GTSTRUDL Student Edition: Version 10.0 August, 2007

ACTIVE UNITS	LENGTH FEET	WEIGHT KIP	ANGLE RAD	TEMPERATURE DEGF	TIME SEC
MEMBER INCIDENCES-----/					

MEMBER	START	END		
101	100	101	PLANE	FRAME
102	101	102	PLANE	FRAME
103	102	103	PLANE	FRAME
104	103	104	PLANE	FRAME
105	104	105	PLANE	FRAME
106	105	106	PLANE	FRAME
107	106	107	PLANE	FRAME
108	107	108	PLANE	FRAME
109	108	109	PLANE	FRAME
110	109	200	PLANE	FRAME
201	200	201	PLANE	FRAME
202	201	202	PLANE	FRAME
203	202	203	PLANE	FRAME
204	203	204	PLANE	FRAME
205	204	205	PLANE	FRAME
206	205	206	PLANE	FRAME
207	206	207	PLANE	FRAME
208	207	208	PLANE	FRAME
209	208	209	PLANE	FRAME
210	209	300	PLANE	FRAME
301	300	301	PLANE	FRAME
302	301	302	PLANE	FRAME
303	302	303	PLANE	FRAME
304	303	304	PLANE	FRAME
305	304	305	PLANE	FRAME
306	305	306	PLANE	FRAME
307	306	307	PLANE	FRAME
308	307	308	PLANE	FRAME
309	308	309	PLANE	FRAME
310	309	400	PLANE	FRAME
1100	1100	100	PLANE	FRAME
1300	1300	300	PLANE	FRAME
2300	2300	300	PLANE	FRAME

\*\*\*\*\*  
 \* END OF DATA FROM INTERNAL STORAGE \*  
 \*\*\*\*\*

```
{ 49} >
{ 50} >
{ 51} > CONSTANTS
{ 52} > E 650000
{ 53} >
{ 54} > MEMBER PROPERTIES
{ 55} > 101 TO 110 AX 100000 IZ 5
{ 56} > 201 TO 210 AX 100000 IZ 2
{ 57} > 301 TO 310 AX 100000 IZ 5
{ 58} > 1100 AX 100000 IZ 3.0
{ 59} > 1300 AX 100000 IZ 1.0
{ 60} > 2300 AX 100000 IZ 1.0
{ 61} >
{ 62} >
{ 63} > LOADING 1
{ 64} >
{ 65} > MEMBER LOADS
{ 66} >
{ 67} >
{ 68} > 102 FORCE Y LIN WA -9.0 WB -8.0 LA 0 LB 10
{ 69} > 103 FORCE Y LIN WA -8.0 WB -7.0 LA 0 LB 10
{ 70} > 104 FORCE Y LIN WA -7.0 WB -6.0 LA 0 LB 10
{ 71} > 105 FORCE Y LIN WA -6.0 WB -5.0 LA 0 LB 10
{ 72} > 106 FORCE Y LIN WA -5.0 WB -4.0 LA 0 LB 10
{ 73} > 107 FORCE Y LIN WA -4.0 WB -3.0 LA 0 LB 10
{ 74} > 108 FORCE Y LIN WA -3.0 WB -2.0 LA 0 LB 10
{ 75} > 109 FORCE Y LIN WA -2.0 WB -1.0 LA 0 LB 10
{ 76} >
{ 77} > 201 TO 210 301 TO 305 FORCE Y UNI W -2.0
{ 78} >
{ 79} > JOINT LOAD
{ 80} > 205 FORCE Y -100
{ 81} > 400 FORCE Y -30
{ 82} > 105 MOMENT Z 1000
{ 83} >
{ 84} >
{ 85} >
{ 86} >
{ 87} > STIFFNESS ANALYSIS
```

BANDWIDTH INFORMATION BEFORE RENUMBERING.

THE MAXIMUM BANDWIDTH IS 29 AND OCCURS AT JOINT 309  
 THE AVERAGE BANDWIDTH IS 3.970  
 THE STANDARD DEVIATION OF THE BANDWIDTH IS 7.137  
 -----  
 11.107  
 =====

BANDWIDTH INFORMATION AFTER RENUMBERING.

THE MAXIMUM BANDWIDTH IS 2 AND OCCURS AT JOINT 300  
 THE AVERAGE BANDWIDTH IS 1.000  
 THE STANDARD DEVIATION OF THE BANDWIDTH IS 0.348

-----  
 1.348  
 =====

TIME FOR CONSISTENCY CHECKS FOR 33 MEMBERS 0.00 SECONDS  
 TIME FOR BANDWIDTH REDUCTION 0.00 SECONDS  
 TIME TO GENERATE 33 ELEMENT STIF. MATRICES 0.00 SECONDS  
 TIME TO PROCESS 23 MEMBER LOADS 0.00 SECONDS  
 TIME TO ASSEMBLE THE STIFFNESS MATRIX 0.00 SECONDS  
 TIME TO PROCESS 34 JOINTS 0.02 SECONDS  
 TIME TO SOLVE WITH 3 PARTITIONS 0.00 SECONDS  
 TIME TO PROCESS 34 JOINT DISPLACEMENTS 0.00 SECONDS  
 TIME TO PROCESS 33 ELEMENT DISTORTIONS 0.00 SECONDS  
 TIME FOR STATICS CHECK 0.00 SECONDS

{ 88 } >  
 { 89 } > OUTPUT DEC 3  
 { 90 } > LIST FORCES

\*\*\*\*\*  
 \*RESULTS OF LATEST ANALYSES\*  
 \*\*\*\*\*

PROBLEM - THREE-SP TITLE - GTSTRUDL Student Edition: Version 10.0 August, 2007

ACTIVE UNITS FEET KIP RAD DEGF SEC

-----  
 --- LOADING - 1  
 -----

MEMBER FORCES

MEMBER	JOINT	FORCE			TORSIONAL	MOMENT	
		AXIAL	SHEAR Y	SHEAR Z		BENDING Y	BENDING Z
101	100	109.181	250.645				3002.480
101	101	-109.181	-250.645				-496.027
102	101	109.181	250.645				496.027
102	102	-109.181	-165.645				1577.094
103	102	109.181	165.645				-1577.094
103	103	-109.181	-90.645				2850.215
104	103	109.181	90.645				-2850.215
104	104	-109.181	-25.645				3423.335
105	104	109.181	25.645				-3423.335
105	105	-109.181	29.355				3396.456
106	105	109.181	-29.355				-2396.456
106	106	-109.181	74.355				1869.576
107	106	109.181	-74.355				-1869.576
107	107	-109.181	109.355				942.696
108	107	109.181	-109.355				-942.696
108	108	-109.181	134.355				-284.182
109	108	109.181	-134.355				284.182
109	109	-109.181	149.355				-1711.062
110	109	109.181	-149.355				1711.062
110	200	-109.181	149.355				-3204.608
201	200	109.181	156.695				3204.608
201	201	-109.181	-136.695				-1737.660
202	201	109.181	136.695				1737.660
202	202	-109.181	-116.695				-470.712
203	202	109.181	116.695				470.712
203	203	-109.181	-96.695				596.235
204	203	109.181	96.695				-596.235
204	204	-109.181	-76.695				1463.183
205	204	109.181	76.695				-1463.183
205	205	-109.181	-56.695				2130.131
206	205	109.181	-43.305				-2130.131
206	206	-109.181	63.305				1597.078
207	206	109.181	-63.305				-1597.078
207	207	-109.181	83.305				864.026
208	207	109.181	-83.305				-864.026
208	208	-109.181	103.305				-69.027
209	208	109.181	-103.305				69.027
209	209	-109.181	123.305				-1202.079

210	209	109.181	-123.305	1202.079
210	300	-109.181	143.305	-2535.132
301	300	0.000	60.000	1125.000
301	301	0.000	-54.000	-954.000
302	301	0.000	54.000	954.000
302	302	0.000	-48.000	-801.000
303	302	0.000	48.000	801.000
303	303	0.000	-42.000	-666.000
304	303	0.000	42.000	666.000
304	304	0.000	-36.000	-549.000
305	304	0.000	36.000	549.000
305	305	0.000	-30.000	-450.000
306	305	0.000	30.000	450.000
306	306	0.000	-30.000	-360.000
307	306	0.000	30.000	360.000
307	307	0.000	-30.000	-270.000
308	307	0.000	30.000	270.000
308	308	0.000	-30.000	-180.000
309	308	0.000	30.000	180.000
309	309	0.000	-30.000	-90.000
310	309	0.000	30.000	90.000
310	400	0.000	-30.000	0.000
1100	1100	250.645	-109.181	-272.951
1100	100	-250.645	109.181	-3002.480
1300	1300	101.653	89.844	1171.391
1300	300	-101.653	-89.844	1523.924
2300	2300	-101.653	-19.337	-466.325
2300	300	101.653	19.337	-113.792

{ 91} > LIST REACTIONS

\*\*\*\*\*  
 \*RESULTS OF LATEST ANALYSES\*  
 \*\*\*\*\*

PROBLEM - THREE-SP TITLE - GTSTRUDL Student Edition: Version 10.0 August, 2007

ACTIVE UNITS FEET KIP RAD DEGF SEC

--- LOADING - 1 ---

RESULTANT JOINT LOADS SUPPORTS

JOINT		/-----FORCE-----//			-----MOMENT-----/		
		X FORCE	Y FORCE	Z FORCE	X MOMENT	Y MOMENT	Z MOMENT
200	GLOBAL	0.000	306.049				0.000
1100	GLOBAL	109.181	250.645				-272.951
1300	GLOBAL	-89.844	101.653				1171.391
2300	GLOBAL	-19.337	101.653				-466.325

{ 92} > OUTPUT DEC 5

{ 93} > LIST DISPLACEMENTS

\*\*\*\*\*  
 \*RESULTS OF LATEST ANALYSES\*  
 \*\*\*\*\*

PROBLEM - THREE-SP TITLE - GTSTRUDL Student Edition: Version 10.0 August, 2007

ACTIVE UNITS FEET KIP RAD DEGF SEC

--- LOADING - 1 ---

RESULTANT JOINT DISPLACEMENTS SUPPORTS

JOINT		/-----DISPLACEMENT-----//			-----ROTATION-----/		
		X DISP.	Y DISP.	Z DISP.	X ROT.	Y ROT.	Z ROT.
200	GLOBAL	0.18897	-0.30605				0.00454
1100	GLOBAL	0.00000	0.00000				0.00000
1300	GLOBAL	0.00000	-0.10165				0.00000



2300 GLOBAL 0.00000 -0.10165 0.00000

RESULTANT JOINT DISPLACEMENTS FREE JOINTS

JOINT		DISPLACEMENT			ROTATION		
		X DISP.	Y DISP.	Z DISP.	X ROT.	Y ROT.	Z ROT.
100	GLOBAL	0.18897	0.00000				-0.02100
300	GLOBAL	0.18897	-0.10165				0.00814
400	GLOBAL	0.18897	0.05025				0.00364
101	GLOBAL	0.18897	-0.24330				-0.02638
102	GLOBAL	0.18897	-0.50299				-0.02450
103	GLOBAL	0.18897	-0.71621				-0.01749
104	GLOBAL	0.18897	-0.84353				-0.00768
105	GLOBAL	0.18897	-0.86705				0.00296
106	GLOBAL	0.18897	-0.80273				0.00964
107	GLOBAL	0.18897	-0.68191				0.01405
108	GLOBAL	0.18897	-0.53285				0.01513
109	GLOBAL	0.18897	-0.39305				0.01210
201	GLOBAL	0.18897	-0.36450				-0.01434
202	GLOBAL	0.18897	-0.55790				-0.02271
203	GLOBAL	0.18897	-0.78879				-0.02210
204	GLOBAL	0.18897	-0.97509				-0.01405
205	GLOBAL	0.18897	-1.05013				-0.00010
206	GLOBAL	0.18897	-0.97541				0.01436
207	GLOBAL	0.18897	-0.77913				0.02396
208	GLOBAL	0.18897	-0.51766				0.02714
209	GLOBAL	0.18897	-0.26278				0.02238
301	GLOBAL	0.18897	-0.07872				0.00718
302	GLOBAL	0.18897	-0.05844				0.00637
303	GLOBAL	0.18897	-0.04038				0.00569
304	GLOBAL	0.18897	-0.02417				0.00513
305	GLOBAL	0.18897	-0.00948				0.00467
306	GLOBAL	0.18897	0.00396				0.00430
307	GLOBAL	0.18897	0.01641				0.00401
308	GLOBAL	0.18897	0.02810				0.00380
309	GLOBAL	0.18897	0.03930				0.00368

```
{ 94 } >
{ 95 } > SAVE 'BEAM.GTS'
# File exists and will be overwritten.
DAM-i-filsave, Sub-system SE10 Stu saved in file .\BEAM.GTS.
{ 96 } >
{ 97 } > FINISH
```

1VERIFICATION OF GoBeam! ANALYSIS  
 ----- RUN-TIME PERFORMANCE SUMMARY -----  
 CPU Time 00:00:00.02 Elapsed Time 0 00:00:00 On Sun Jun 1 20:40:29 2008

