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*    Computer Software   *
*           for          *
*   STRUCTURAL ANALYSIS   *
*      Sixth Edition      *
*           by            *
*     Aslam Kassimali     *
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General Structural Data

Project Title : EWCE 411 - CT2
Structure Type : Plane Frame
Number of Joints : 4
Number of Members : 3
Number of Material Property Sets (E) : 1
Number of Cross-Sectional Property Sets : 2

Joint Coordinates

Joint No.	X Coordinate	Y Coordinate
1	0.0000E+00	0.0000E+00
2	0.0000E+00	6.0000E+00
3	8.0000E+00	6.0000E+00
4	8.0000E+00	0.0000E+00

Supports

Joint No.	X Restraint	Y Restraint	Rotational Restraint
1	Yes	Yes	Yes
4	Yes	Yes	Yes

Material Properties

Material No.	Modulus of Elasticity (E)	Co-efficient of Thermal Expansion
1	2.0000E+11	0.0000E+00

Cross-Sectional Properties

Property No.	Area (A)	Moment of Inertia (I)
1	1.0000E+04	3.7500E+08
2	2.0000E+04	7.5000E+08

Member Data

Member No.	Beginning Joint	End Joint	Material No.	Cross-Sectional Property No.
1	1	2	1	1
2	2	3	1	2
3	3	4	1	1

Joint Loads

Joint No.	X Force	Y Force	Moment
2	1.0000E+02	0.0000E+00	0.0000E+00

Member Loads

Member No.	Load Type	Load Intensity (w)
2	Uniform	3.750E+1

********** End of Input Data **********

Results of Analysis

Joint Displacements

Joint No.	X Translation	Y Translation	Rotation (Rad)
1	0.0000E+00	0.0000E+00	0.0000E+00
2	8.0970E-17	-4.4983E-13	-1.8993E-17
3	1.4997E-17	-4.4993E-13	-4.9965E-18
4	0.0000E+00	0.0000E+00	0.0000E+00

Member End Forces in Local Coordinates

Member	Joint	Axial Force	Shear Force	Moment
1	1	1.4994E+02	9.9967E+01	5.3731E+02
	2	-1.4994E+02	-9.9967E+01	6.2494E+01
2	2	3.2986E-02	1.5004E+02	-6.2145E+01
	3	-3.2986E-02	1.4996E+02	6.2986E+01
3	3	1.4998E+02	3.2981E-02	-6.2357E+01
	4	-1.4998E+02	-3.2981E-02	6.2555E+01

Support Reactions

Joint No.	X Force	Y Force	Moment
1	-9.9967E+01	1.4994E+02	5.3731E+02
4	-3.2981E-02	1.4998E+02	6.2555E+01

********** End of Analysis **********