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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 - HW1
Structure Type : Beam
Number of Joints : 5
Number of Members : 4
Number of Material Property Sets (E) : 1
Number of Cross-Sectional Property Sets : 1

Joint Coordinates

Joint No.	X Coordinate
1	0.0000E+00
2	6.0000E+00
3	1.0000E+01
4	2.0000E+01
5	2.5000E+01

Supports

Joint No.	Y Restraint	Rotational Restraint
1	Yes	Yes
3	Yes	No
4	Yes	No
5	Yes	Yes

Material Properties

Material No.	Modulus of Elasticity (E)	Co-efficient of Thermal Expansion
1	1.0000E+03	0.0000E+00

Cross-Sectional Properties

Property No.	Moment of Inertia
1	1.0000E+00

Member Data

Member No.	Beginning Joint	End Joint	Material No.	Cross-Sectional Property No.
1	1	2	1	1
2	2	3	1	1
3	3	4	1	1
4	4	5	1	1

Joint Loads

Joint No.	Y Force	Moment
2	-8.0000E+01	0.0000E+00

Member Loads

Member No.	Load Type	Load Intensity (w)
3	Uniform	2.400E+1

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

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* Results of Analysis *

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Joint Displacements

Joint No.	Y Translation	Rotation (Rad)
1	0.0000E+00	0.0000E+00
2	-1.4675E-01	6.4570E-02
3	0.0000E+00	-1.5409E-01
4	0.0000E+00	1.9235E-01
5	0.0000E+00	0.0000E+00

Member End Forces in Local Coordinates

Member	Joint	Shear Force	Moment
1	1	1.8915E+01	4.5983E+01
	2	-1.8915E+01	6.7506E+01
2	2	-6.1085E+01	-6.7506E+01
	3	6.1085E+01	-1.7683E+02
3	3	1.2230E+02	1.7683E+02
	4	1.1770E+02	-1.5388E+02
4	4	4.6163E+01	1.5388E+02
	5	-4.6163E+01	7.6939E+01

Support Reactions

Joint No.	Y Force	Moment
1	1.8915E+01	4.5983E+01
3	1.8338E+02	0.0000E+00
4	1.6387E+02	0.0000E+00
5	-4.6163E+01	7.6939E+01

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