

```

*****
*   Computer Software   *
*         for          *
*   STRUCTURAL ANALYSIS *
*     Fourth Edition   *
*         by           *
*   Aslam Kassimali    *
*****

```

```

=====
General Structural Data
=====

```

```

Project Title : Residence
Structure Type : Beam
Number of Joints : 3
Number of Members : 2
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	6.6000E+01
3	2.1000E+02

```

=====
Supports
=====

```

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

```

=====
Material Properties
=====

```

Material No.	Modulus of Elasticity (E)	Co-efficient of Thermal Expansion
1	1.6000E+06	0.0000E+00

=====
 Cross-Sectional Properties
 =====

Property No.	Moment of Inertia
1	1.4290E+03

=====
 Member Data
 =====

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

=====
 Joint Loads
 =====

Joint No.	Y Force	Moment
2	-5.4850E+03	0.0000E+00

=====
 Member Loads
 =====

Member No.	Load Type	Load Intensity (w)
1	Uniform	2.690E+2
2	Uniform	2.690E+2

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

 * Results of Analysis *

=====
 Joint Displacements
 =====

Joint No.	Y Translation	Rotation (Rad)
1	0.0000E+00	-5.1805E-02
2	-2.8414E+00	-2.6953E-02
3	0.0000E+00	5.0393E-02

=====
Member End Forces in Local Coordinates
=====

Member	Joint	Shear Force	Moment
1	1	3.2006E+04	-4.6875E-01
	2	-1.4252E+04	1.5265E+06
2	2	8.7671E+03	-1.5265E+06
	3	2.9969E+04	1.8750E-01

=====
Support Reactions
=====

Joint No.	Y Force	Moment
1	3.2006E+04	0.0000E+00
3	2.9969E+04	0.0000E+00

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