
 INPUT DATA

E= 4080 ksi No. of Jts.= 6 No. of Elements= 5

Element Data

Joint Data

Element #	I (in ⁴)	Joint #	X (ft)	Joint Restraint
1	6192	1	0.00	PINNED
2	6192	2	12.00	FREE
3	6192	3	14.00	PINNED
4	6192	4	24.00	FREE
5	6192	5	26.00	PINNED
		6	31.00	FREE

Load Case Description

Load Case	Description
1	DEAD LOADS (D)
2	LIVE LOADS (L)
3	EARTH PRESSURE (H)
4	WIND-POSITIVE PRESSURE (W)

Joint Loads

Load Case	Joint #	Px (k)	Py (k)	Mz (k-in)
1	2	-9.60	0.00	-87
1	4	-8.00	0.00	-72
2	2	-7.20	0.00	-65
2	4	-4.80	0.00	-43

Distributed Loads

Load Case	W1 (k/ft)	W2 (k/ft)	X1 (ft)	X2 (ft)
3	-1.440	0.000	0.00	6.00
4	-0.120	-0.120	6.00	31.00

 LOAD COMBINATION 1 1.2D + 1.6L + 1.6H

Combined Loads = 1.200 * LC 1 + 1.600 * LC 2 + 1.600 * LC 3

Joint Reactions and Displacements

Joint #	X (ft)	Rx (k)	Ry (k)	Mz (k-in)	Y-disp. (in)	Rotat. (rad)
1	0.00	40.32	5.03	0	0.0000	-0.000107
2	12.00	0.00	0.00	0	0.0002	-0.000052
3	14.00	0.00	0.40	0	0.0000	0.000025
4	24.00	0.00	0.00	0	0.0026	-0.000121
5	26.00	0.00	1.48	0	0.0000	-0.000104
6	31.00	0.00	0.00	0	-0.0063	-0.000104

Element Forces and Displacements

Ele. #	X (ft)	Axial Force (k)	Shear Force (k)	Moment (k-in)	Y-displ. (in)
1	0.00	40.32	5.03	-0	0.0000
1	2.87	40.32	-0.00	78	-0.0027
1	12.00	40.32	-1.88	-105	0.0002
2	12.00	17.28	-1.88	103	0.0002
2	14.00	17.28	-1.88	58	0.0000
3	14.00	17.28	-1.48	58	0.0000
3	24.00	17.28	-1.48	-120	0.0026
4	24.00	0.00	-1.48	36	0.0026
4	26.00	0.00	-1.48	-0	0.0000
5	26.00	0.00	0.00	0	-0.0000
5	31.00	0.00	0.00	0	-0.0063

 LOAD COMBINATION 2 0.9D + 1.6W + 1.6H

Combined Loads = 0.900 * LC 1 + 1.600 * LC 4 + 1.600 * LC 3

Joint Reactions and Displacements

Joint #	X (ft)	Rx (k)	Ry (k)	Mz (k-in)	Y-disp. (in)	Rotat. (rad)
1	0.00	15.84	5.68	0	0.0000	-0.000207
2	12.00	0.00	0.00	0	-0.0019	0.000077
3	14.00	0.00	3.52	0	0.0000	0.000073
4	24.00	0.00	0.00	0	0.0016	-0.000066
5	26.00	0.00	2.51	0	0.0000	-0.000077
6	31.00	0.00	0.00	0	-0.0056	-0.000099

Element Forces and Displacements

Ele. #	X (ft)	Axial Force (k)	Shear Force (k)	Moment (k-in)	Y-displ. (in)
1	0.00	15.84	5.68	-0	0.0000
1	3.47	15.84	0.00	102	-0.0067
1	12.00	15.84	-2.38	-52	-0.0019
2	12.00	7.20	-2.38	26	-0.0019
2	14.00	7.20	-2.76	-36	0.0000
3	14.00	7.20	0.75	-36	0.0000
3	17.91	7.20	-0.00	-18	0.0023
3	24.00	7.20	-1.17	-61	0.0016
4	24.00	0.00	-1.17	4	0.0016
4	26.00	0.00	-1.55	-29	0.0000
5	26.00	0.00	0.96	-29	0.0000
5	31.00	0.00	0.00	0	-0.0056