PyNite Analysis Report

Nodes & Supports

Node	X	Y	Z	Support X	Support Y	Support Z	Support RX	Support RY	Support RZ
N1	0	0	0	True	True	True	True	False	False
N2	168	0	0	True	True	True	False	False	False

Members

Member	i-Node	j-Node	A	I_y	I_z	J	E	G
M1	N1	N2	20	100	150	250	2.9e+04	1.14e+04

Member End Releases

Member	Δ_{xi}	Δ_{yi}	Δ_{zi}	θ_{xi}	θ_{yi}	θ_{zi}	Δ_{xj}	Δ_{yj}	Δ_{zj}	θ_{xj}	θ_{yj}	θ_{zj}
M1	False	False	False	False	False	False	False	False	False	False	False	False

Node Reactions

Node	LC	FX	FY	FZ	MX	MY	MZ
N1	1.4D	0	3.5	0	0	0	0
N2	1.4D	0	3.5	0	0	0	0
N1	1.2D+1.6L	0	9.4	0	0	0	0
N2	1.2D+1.6L	0	9.4	0	0	0	0

Node Displacements

Node	LC	Δ_X	Δ_Y	Δ_Z	θ_X	θ_Y	θ_Z
N1	1.4D	0	0	0	0	0	-0.002839
N2	1.4D	0	0	0	0	0	0.002839
N1	1.2D+1.6L	0	0	0	0	0	-0.007624
N2	1.2D+1.6L	0	0	0	0	0	0.007624

Member End Forces

Member	LC	P_i	P_j	V_{yi}	V_{zi}	V_{yj}	V_{zj}	M_{yi}	M_{zi}	M_{yj}	M_{zj}	T_i	T_j
M1	1.4D	0	0	3.5	0	-3.5	0	0	0	0	-1.137e-13	0	0
M1	1.2D+1.6L	0	0	9.4	0	-9.4	0	0	0	0	-2.274e-13	0	0

Member Max/Min Internal Forces

Member	LC	P_{max}	P_{min}	$V_{y,max}$	$V_{y,min}$	$V_{z,max}$	$V_{z,min}$	$M_{y,max}$	$M_{y,min}$	$M_{z,max}$	$M_{z,min}$	T_{max}	T_{min}
M1	1.4D	0	0	3.5	-3.5	0	0	0	0	0	-294	0	0
M1	1.2D+1.6L	0	0	9.4	-9.4	0	0	0	0	0	-789.6	0	0

Member	LC	P_{max}	P_{min}	$V_{y,max}$	$V_{y,min}$	$V_{z,max}$	$V_{z,min}$	$M_{y,max}$	$M_{y,min}$	$M_{z,max}$	$M_{z,min}$	T_{max}	T_{min}
M1	1.4D	0	0	3.5	-3.5	0	0	0	0	0	-294	0	0
M1	1.2D+1.6L	0	0	9.4	-9.4	0	0	0	0	0	-789.6	0	0