

SINGLE-SPAN BEAM ANALYSIS

Version 2.3

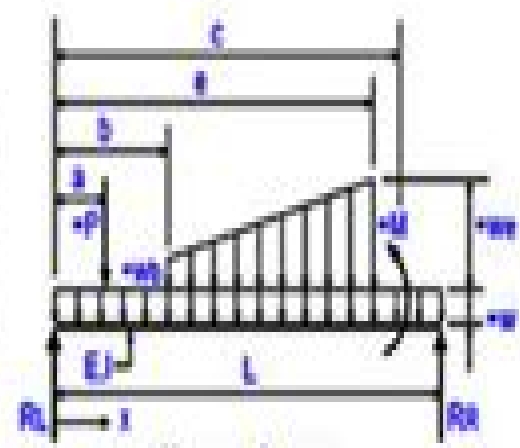
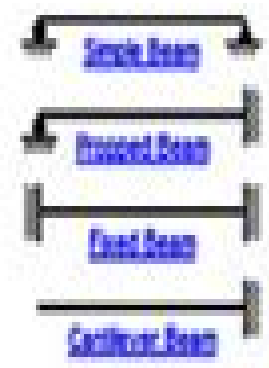
For Simple, Propped, Fixed, or Cantilever Beams

Job Name:		Subject:	
Job Number:		Originator:	Checker:

Input Data:

Beam Data:

Span Type?	Simple
Span, L =	20.0000 ft.
Modulus, E =	29000 ksi
Inertia, I =	391.00 in. ⁴



Nomenclature

Beam Loadings:

Full Uniform:

w = 0.0500 kips/ft.

Distributed:	Start		End	
	b (ft.)	w ₀ (kips/ft.)	b (ft.)	w ₀ (kips/ft.)
#1				
#2				
#3				
#4				
#5				
#6				
#7				
#8				

Results:

Reactions:

R ₁ =	10.50 k	R ₂ =	10.50 k
M ₁ =	N.A.	M ₂ =	N.A.

Maximum Moments:

+M(max) =	102.50 ft-k	@ x =	10.00 ft.
-M(max) =	0.00 ft-k	@ x =	0.00 ft.

Maximum Deflections:

-Δ(max) =	-0.524 in.	@ x =	10.00 ft.
+Δ(max) =	0.000 in.	@ x =	0.00 ft.
Δ(rate) =	1/458		

Shear Diagram

Point Loads:

#	b (ft.)	P (kips)
#1	10.0000	20.00

Caution: User should make sure to **Clear Contents** of all input cells not being used.

Steel Beam:

Size:	W12x50
I _x =	391.00 in. ⁴
I _y =	56.30 in. ⁴

User Designated Points:

x1 =	0.0000 ft.
x2 =	0.0000 ft.

Results for User Designated Points:

For x1:

V _{x1} =	10.50 kips
M _{x1} =	0.00 ft-kips
θ _{x1} =	-0.3759 deg.
Δ _{x1} =	0.0000 in.

For x2:

V _{x2} =	10.50 kips
M _{x2} =	0.00 ft-kips
θ _{x2} =	-0.3759 deg.
Δ _{x2} =	0.0000 in.

Structural Analysis Excel Programs

Ravi Kumar Sharma, Rachit Sharma



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