

# SINGLE-SPAN BEAM ANALYSIS

Version 2.3

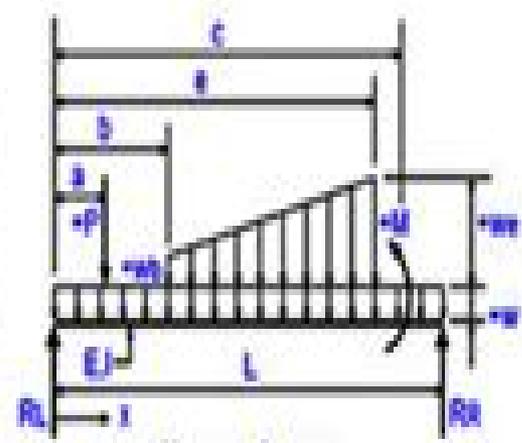
For Simple, Propped, Fixed, or Cantilever Beams

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 <sup>4</sup>



Nomenclature

### Beam Loadings:

Full Uniform:

w = 0.0500 kips/ft

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

### Results:

#### Reactions:

R <sub>L</sub> =	10.50 k	R <sub>R</sub> =	10.50 k
M <sub>L</sub> =	N.A.	M <sub>R</sub> =	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 <sub>x</sub> =	391.00 in <sup>4</sup>
I <sub>y</sub> =	56.30 in <sup>4</sup>

### User Designated Points:

x1 =	0.0000 ft
x2 =	0.0000 ft

### Results for User Designated Points:

#### For x1:

V <sub>x1</sub> =	10.50 kips
M <sub>x1</sub> =	0.00 ft-kips
θ <sub>x1</sub> =	-0.3759 deg.
Δ <sub>x1</sub> =	0.0000 in.

#### For x2:

V <sub>x2</sub> =	10.50 kips
M <sub>x2</sub> =	0.00 ft-kips
θ <sub>x2</sub> =	-0.3759 deg.
Δ <sub>x2</sub> =	0.0000 in.

# Structural Analysis Excel Programs

**Neil A. B. Gray**



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