

# SINGLE-SPAN BEAM ANALYSIS

Version 2.3

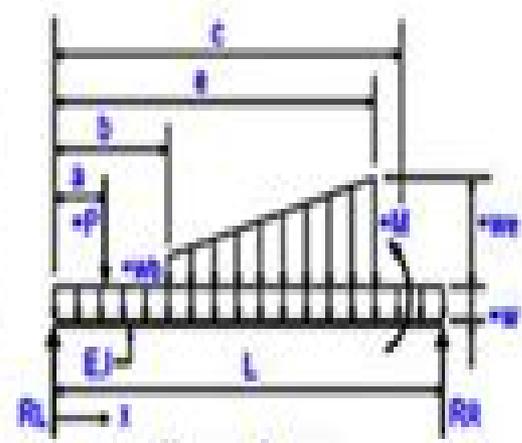
For Simple, Propped, Fixed, or Cantilever Beams

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>1</sub> =	10.50 k	R <sub>2</sub> =	10.50 k
M <sub>1</sub> =	N.A.	M <sub>2</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

**University of California, Berkeley.  
Department of Architecture**



## **Structural Analysis Excel Programs:**

## **Structural Analysis Excel Programs** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Structural Analysis Excel Programs**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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