

SINGLE-SPAN BEAM ANALYSIS

Version 2.3

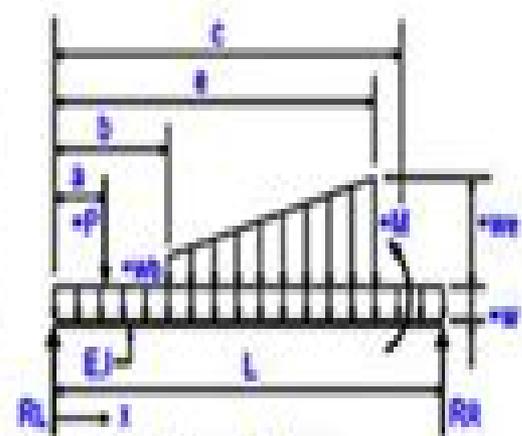
For Simple, Propped, Fixed, or Cantilever Beams

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

Marco Cascella



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Table of Contents Structural Analysis Excel Programs

1. Understanding the eBook Structural Analysis Excel Programs
 - The Rise of Digital Reading Structural Analysis Excel Programs
 - Advantages of eBooks Over Traditional Books
2. Identifying Structural Analysis Excel Programs
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Structural Analysis Excel Programs
 - User-Friendly Interface
4. Exploring eBook Recommendations from Structural Analysis Excel Programs
 - Personalized Recommendations
 - Structural Analysis Excel Programs User Reviews and Ratings
 - Structural Analysis Excel Programs and Bestseller Lists

5. Accessing Structural Analysis Excel Programs Free and Paid eBooks
 - Structural Analysis Excel Programs Public Domain eBooks
 - Structural Analysis Excel Programs eBook Subscription Services
 - Structural Analysis Excel Programs Budget-Friendly Options
6. Navigating Structural Analysis Excel Programs eBook Formats
 - ePub, PDF, MOBI, and More
 - Structural Analysis Excel Programs Compatibility with Devices
 - Structural Analysis Excel Programs Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Structural Analysis Excel Programs
 - Highlighting and Note-Taking Structural Analysis Excel Programs
 - Interactive Elements Structural Analysis Excel Programs
8. Staying Engaged with Structural Analysis Excel Programs
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Structural Analysis Excel Programs
9. Balancing eBooks and Physical Books Structural Analysis Excel Programs
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Structural Analysis Excel Programs
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Structural Analysis Excel Programs
 - Setting Reading Goals Structural Analysis Excel Programs
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Structural Analysis Excel Programs
 - Fact-Checking eBook Content of Structural Analysis Excel Programs
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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