SINGLE-SPAN BEAM ANALYSIS
For Simple, Propped, Fixed, or Cantilever Beams

Version 2.5

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

Simple Beam

Propped Beam

Fixed Beam

Cantilever Beam
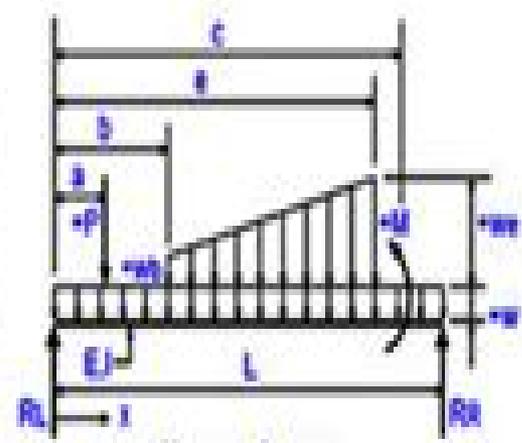
Nomenclature

Beam Loadings:

Full Uniform:

w = **0.0500** kips/ft.

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

Point Loads:	a (ft.)	P (kips)
#1	10.0000	20.00

Results:

Reactions:

R_L = **10.50** k R_R = **10.50** k

M_L = **N.A.** M_R = **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(ratio) = **L/458**

Shear Diagram

Steel Beam:

Size: **W12x50**

Ix = **391.00** in.^4

Iy = **56.30** in.^4

User Designated Points:

x1 = **0.0000** ft.

x2 = **0.0000** ft.

Results for User Designated Points:

For x1:

Vx1 = **10.50** kips

Mx1 = **0.00** ft-kips

θx1 = **-0.3759** deg.

Δx1 = **0.0000** in.

For x2:

Vx2 = **10.50** kips

Mx2 = **0.00** ft-kips

θx2 = **-0.3759** deg.

Δx2 = **0.0000** in.

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M Mark

Structural Analysis Excel Programs:

Applications of Spreadsheets in Education the Amazing Power of a Simple Tool Mark A. Lau,Stephen J. Sugden,2011-10-04 This e book is devoted to the use of spreadsheets in the service of education in a broad spectrum of disciplines science mathematics engineering business and general education The effort is aimed at collecting the works of prominent researchers and Reinforced Concrete Design Ravi Kumar Sharma,Rachit Sharma,2022-04-01 Reinforced Concrete Design has been written to impart in depth knowledge to students about the subject The appropriate Indian standard guidelines suitable illustrations figures and solved numerical problems have been included The design techniques used by the engineers have been discussed with suitable examples to provide basic knowledge to the readers A sufficient number of questions are given at the end of each chapter to enable the students prepare for the examinations An additional chapter explaining the concepts and applications of earthquake resistant design of structures has been included in the text The fundamentals of computer aided design and drawing using suitable illustrations have been explained in the last chapter to enable the engineers to understand the practical applications of the subject The book will serve the purpose of providing thorough knowledge to the students and practicing engineers in the subject Salient features Thorough understanding of design of reinforced concrete structures Knowledge of earthquake resistant design of structures Computer aided design fundamentals Analysis and design using STAAD Drawing using AUTO CAD Illustrations containing reinforcement details Contents 1 Reinforced Concrete 2 Limit State Design 3 Limit State of Collapse Flexure 4 Shear Bond and Torsion 5 Limit State of Compression Compression 6 Limit State of Serviceability 7 Design of Beams 8 Design of Slabs 9 Design of Stairs 10 Design of Foundations 11 Earthquake Resistant Design of Structures 12 Computer Aided Design of Structures About the Authors Ravi Kumar Sharma Professor in Civil Engineering Department National Institute of Technology Hamirpur HP obtained his PhD in 1999 from the Indian Institute of Technology Roorkee He is an experienced teacher researcher and consultant with more than 35 years of experience He has published 3 books 125 research papers completed 13 research projects and provided consultancy to more than 1500 construction projects Rachit Sharma obtained his Masters degree in structural engineering from Guru Nanak Engineering College Ludhiana He is currently pursuing research in structural engineering at National Institute of Technology Jalandhar He has published 10 research papers in journals and conference proceedings Computer Aided Optimum Design in Engineering X S. Hernandez,C. A. Brebbia,2007 Engineering design is enhanced by adding optimisation methods Their influence cannot be over emphasised The resulting solutions provide an efficient way of dealing with some of the most difficult challenges in engineering practice today Containing papers presented at the Tenth International Conference on this successful series on Optimum Design in Engineering this book examines the recent development in advanced types of structures particularly those based on new concepts and new types of materials resulting in optimum solutions Particular emphasis is placed on computational methods to model control and manage new

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