

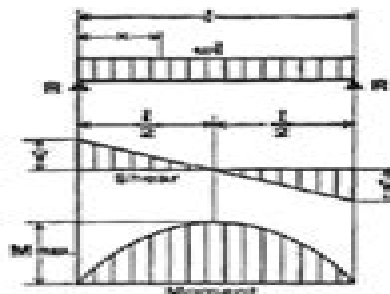
BEAM DIAGRAMS AND FORMULAS

For various static loading conditions

For meaning of symbols, see page 2 - 293

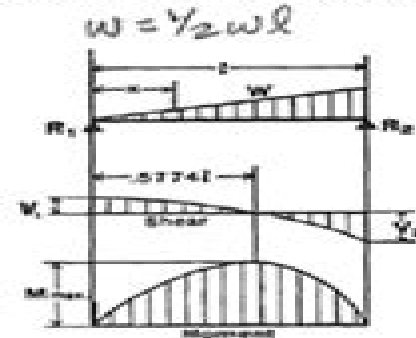
AISC Beam Tables

1. SIMPLE BEAM—UNIFORMLY DISTRIBUTED LOAD



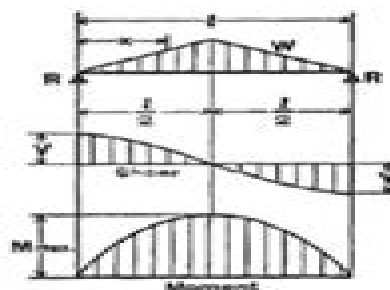
Total Equiv. Uniform Load	$= wl$
$R = V$	$= \frac{wl}{2}$
V_x	$= w \left(\frac{l}{2} - x \right)$
M max. (at center)	$= \frac{wl^2}{8}$
M_x	$= \frac{wx}{2} (l - x)$
Δ max. (at center)	$= \frac{5wl^4}{384EI}$
Δ_x	$= \frac{wx}{24EI} (l^3 - 2lx^2 + x^3)$

2. SIMPLE BEAM—LOAD INCREASING UNIFORMLY TO ONE END



Total Equiv. Uniform Load	$= \frac{15W}{8\sqrt{3}} = 1.0254W$
$R_1 = V_1$	$= \frac{W}{3}$
$R_2 = V_2$ max.	$= \frac{2W}{3}$
V_x	$= \frac{W}{3} - \frac{Wx^2}{l^2}$
M max. (at $x = \frac{l}{\sqrt{3}} = .5774l$)	$= \frac{2Wl}{8\sqrt{3}} = .1283Wl$
M_x	$= \frac{Wx}{3l^2} (l^3 - 3x^3)$
Δ max. (at $x = l \sqrt{1 - \sqrt{\frac{8}{15}}} = .5193l$)	$= .01304 \frac{Wl^4}{EI}$
Δ_x	$= \frac{Wx}{180EI l^4} (3x^4 - 10l^2x^2 + 7l^4)$

3. SIMPLE BEAM—LOAD INCREASING UNIFORMLY TO CENTER



Total Equiv. Uniform Load	$= \frac{4W}{3}$
$R = V$	$= \frac{W}{2}$
V_x (when $x < \frac{l}{2}$)	$= \frac{W}{2l^3} (l^3 - 4x^3)$
M max. (at center)	$= \frac{Wl}{6}$
M_x (when $x < \frac{l}{2}$)	$= Wx \left(\frac{1}{2} - \frac{2x^2}{3l^2} \right)$
Δ max. (at center)	$= \frac{Wl^4}{80EI}$
Δ_x (when $x < \frac{l}{2}$)	$= \frac{Wx}{480EI l^4} (5l^3 - 4x^3)^2$

Aisc Manual Beam Tables

Tyler G. Hicks, S. David Hicks



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Steel Buildings Stanley W. Crawley, Robert M. Dillon, 1993 This volume presents the general principles of structural analysis and their application to the design of low and intermediate height building frames The text is accompanied by software for the analysis of axial forces displacement and the bending moment and the determination of shear

Handbook of Civil Engineering Calculations, Second Edition Tyler G. Hicks, S. David Hicks, 2007-05-23 Table of Contents Preface How to Use This Handbook Sect 1 Structural Steel Engineering and Design Sect 2 Reinforced and Prestressed Concrete Engineering and Design Sect 3 Timber Engineering Sect 4 Soil Mechanics Sect 5 Surveying Route Design and Highway Bridges Sect 6 Fluid Mechanics Pumps Piping and Hydro Power Sect 7 Water Supply and Stormwater System Design Sect 8 Sanitary Wastewater Treatment and Control Sect 9 Engineering Economics Index 1 *Simplified Design of Steel Structures* James Ambrose, 1997 The seventh edition of *Simplified Design of Steel Structures* is an excellent reference for architects and engineers who need information about the common uses of steel for the structures of buildings The clear and concise format benefits readers who have limited backgrounds in mathematics and engineering This new edition has been updated to reflect changes in standards industry technology and construction practices including new research in the field examples of general building structural systems and the use of computers in structural design Specifically Load and Resistance Factor Design LRFD and Allowable Stress Design ASD are now covered Structural Steel Design Jack C. McCormac, 2008 The material is presented in a clear reader friendly style This best selling text has been fully updated to conform to the latest American Manual of Steel Construction Both Load and Resistance Factor Design LRFD and Allowable Stress Design ASD are now covered and calculations are worked out side by side to allow for easy identification of the different methods Use of SI units as an addition to the primary use of Inch Pound units New coverage of Lateral Torsional Bending and Hollow Structural Sections For steel design students and professionals *Building Structures* James Ambrose, Patrick Tripeny, 2011-10-18 The comprehensive reference on the basics of structural analysis and design now updated with the latest considerations of building technology Structural design is an essential element of the building process yet one of the most difficult to learn While structural engineers do the detailed consulting work for a building project architects need to know enough structural theory and analysis to design a building Most texts on structures for architects focus narrowly on the mathematical analysis of isolated structural components yet *Building Structures* looks at the general concepts with selected computations to understand the role of the structure as a building subsystem without the complicated mathematics New to this edition is a complete discussion of the LRFD method of design supplemented by the ASD method in addition to The fundamentals of structural analysis and design for architects A glossary exercise problems and a companion website and instructor s manual Material ideally suited for preparing for the ARE exam Profusely illustrated throughout with drawings and photographs and including new case studies *Building Structures Third Edition* is perfect for nonengineers to

understand and visualize structural design **Principles of Structural Design** Ram S. Gupta, 2014-04-22 A structural design book with a code connected focus Principles of Structural Design Wood Steel and Concrete Second Edition introduces the principles and practices of structural design This book covers the section properties design values reference tables and other design aids required to accomplish complete structural designs in accordance with the codes What's New in This Edition Reflects all the latest revised codes and standards The text material has been thoroughly reviewed and expanded including a new chapter on concrete design Suitable for combined design coursework in wood steel and concrete Includes all essential material the section properties design values reference tables and other design aids required to accomplish complete structural designs according to the codes This book uses the LRFD basis of design for all structures This updated edition has been expanded into 17 chapters and is divided into four parts The first section of the book explains load and resistance factor design and explores a unified approach to design The second section covers wood design and specifically examines wood structures It highlights sawn lumber glued laminated timber and structural composite veneer lumber The third section examines steel structures It addresses the AISC 2010 revisions to the sectional properties of certain structural elements as well as changes in the procedure to design the slip critical connection The final section includes a chapter on T beams and introduces doubly reinforced beams Principles of Structural Design Wood Steel and Concrete Second Edition was designed to be used for joint coursework in wood steel and concrete design *Building Structures* James E. Ambrose, 1993 Construction Details From Architectural Graphic Standards Eighth Edition Edited by James Ambrose A concise reference tool for the professional involved in the production of details for building construction this abridgement of the classic Architectural Graphic Standards provides indispensable guidance on standardizing detail work without having to create the needed details from scratch An ideal how to manual for the working draftsman this convenient portable edition covers general planning and design data sitework concrete masonry metals wood doors and windows finishes specialties equipment furnishings special construction energy design historic preservation and more Construction Details also includes extensive references to additional information as well as AGS's hallmark illustrations 1991 0 471 54899 5 408 pp Fundamentals of Building Construction Materials And Methods Second Edition Edward Allen A thoughtful overview of the entire construction industry from homes to skyscrapers there's plenty here for the aspiring tradesperson or anyone else who's fascinated by the art of building Fine Homebuilding Beginning with the materials of the ancients wood stone and brick this important work is a guide to the structural systems that have made these and more contemporary building materials the irreplaceable basics of modern architecture Detailing the structural systems most widely used today heavy timber framing wood platform framing masonry loadbearing wall structural steel framing and concrete framing systems the book describes each system's historical development how the major material is obtained and processed tools and working methods as well as each system's relative merits Designed as a primer to building basics the book features a list of key terms and concepts review questions and

exercises as well as hundreds of drawings and photographs illustrating the materials and methods described 1990 0 471 50911 6 803 pp Mechanical and Electrical Equipment for Buildings Eighth Edition Benjamin Stein and John S Reynolds The book is packed with useful information and has been the architect s standard for fifty years Electrical Engineering and Electronics on the seventh edition More up to date than ever this reference classic provides valuable insights on the new imperatives for building design today The Eighth Edition details the impact of computers data processing and telecommunications on building system design the effects of new stringent energy codes on building systems and computer calculation techniques as applied to daylighting and electric lighting design As did earlier editions the book provides the basic theory and design guidelines for both systems and equipment in everything from heating and cooling water and waste fire and fire protection systems lighting and electrical wiring plumbing elevators and escalators acoustics and more Thoroughly illustrated the book is a basic primer on making comfort and resource efficiency integral to the design standard 1991 0 471 52502 2 1 664 pp *Structural Analysis and Design of Tall Buildings* Bungale S. Taranath, 2016-04-19 As software skills rise to the forefront of design concerns the art of structural conceptualization is often minimized Structural engineering however requires the marriage of artistic and intuitive designs with mathematical accuracy and detail Computer analysis works to solidify and extend the creative idea or concept that might have started out as a sketch on the back of an envelope From Sketches on the Back of an Envelope to Elegant Economical Buildings The Art of Structural Conceptualization Bridging the gap between the conceptual approach and computer analysis Structural Analysis and Design of Tall Buildings Steel and Composite Construction integrates the design aspects of steel and composite buildings in one volume Using conceptual thinking and basic strength of material concepts as foundations the book shows engineers how to use imperfect information to estimate the answer to larger and more complex design problems by breaking them down into more manageable pieces Written by an accomplished structural engineer this book discusses the behavior and design of lateral load resisting systems the gravity design of steel and composite floors and columns and methods for determining wind loads It also examines the behavior and design of buildings subject to inelastic cyclic deformation during large earthquakes with an emphasis on visual and descriptive analysis as well as the anatomy of seismic provisions and the rehabilitation of seismically vulnerable steel buildings Intuitive Techniques for Construction and Design The book covers a range of special topics including performance based design and human tolerance for the wind induced dynamic motions of tall buildings It also presents preliminary analysis techniques graphical approaches for determining wind and seismic loads and graphical aids for estimating unit quantity of structural steel The final chapter deals with the art of connection design Forty case studies from New York s Empire State Building to Kuala Lumpur s Petronas Towers highlight the aspects of conceptualization that are key in the design of tall and ultra tall buildings A comprehensive design reference this book guides engineers to visualize conceptualize and realize structural systems for tall buildings that are elegant and economical **Fundamentals of**

Engineering Elasticity Sidney F. Borg, 1990 The two fundamental premises of the original edition have been adhered to namely To obtain a real understanding of mechanics of materials we must go back to the beginnings of the fields i e the linearized mathematical theory of elasticity Secondly the subject of engineering elasticity is a natural one to use in introducing to the undergraduate engineering student the important topic of tensors

Audel Complete Building Construction Mark Richard Miller, Rex Miller, Eugene Leger, 2005-01-28 You can build on this foundation Whether construction is your livelihood or you re just planning a home addition you need to know the latest about materials methods and more From locating the structure on the site to installing roof shingles this book helps you make responsible decisions about every stage of building construction Fully updated with information about available resources new materials and recent code changes it helps you build cost effective energy efficient structures with confidence Understand how different types of lots covenants and zoning will affect structure placement Consider the Air Freezing Index and Degree Days when planning foundations Look at the pros and cons of welded wire fabric in concrete work Explore low E window glass heat mirror and switchable glazings Find out what insulation and ventilation procedures are most effective Learn about the properties of Gypsonite TM and FiberBond TM in interior construction Handle the radon hazard and other environmental issues

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