



Table 1-1 (continued)
W Shapes
Dimensions

Shape	Area, <i>A</i> in. ²	Depth, <i>d</i> in.	Web			Flange			Distance						
			Thickness, <i>t_w</i> in.	<i>L_w</i> / 2 in.	Width, <i>b_f</i> in.	Thickness, <i>t_f</i> in.	<i>k</i>		<i>k₁</i> in.	<i>T</i> in.	Work- able Gage in.				
							<i>K_{ser}</i> in.	<i>K_{des}</i> in.							
W16×100	29.5	17.0	17	0.585	⁵ / ₁₆	⁵ / ₁₆	10.4	10 ⁵ / ₁₆	0.985	1	1.39	1 ¹ / ₂	1 ¹ / ₂	13 ¹ / ₄	5 ¹ / ₂
>89	26.2	16.8	16 ⁵ / ₁₆	0.525	¹ / ₂	¹ / ₂	10.4	10 ⁵ / ₁₆	0.875	⁷ / ₁₆	1.28	1 ¹ / ₂	1 ¹ / ₂	↓	↓
>77	22.6	16.5	16 ⁵ / ₁₆	0.455	⁵ / ₁₆	¹ / ₂	10.3	10 ⁵ / ₁₆	0.760	³ / ₁₆	1.16	1 ¹ / ₂	1 ¹ / ₂	↓	↓
>67 ^c	19.7	16.3	16 ⁵ / ₁₆	0.395	³ / ₁₆	³ / ₁₆	10.2	10 ⁵ / ₁₆	0.665	1 ¹ / ₁₆	1.07	1 ¹ / ₂	1	↓	↓
W16×57	16.8	16.4	16 ⁵ / ₁₆	0.430	³ / ₁₆	¹ / ₂	7.12	7 ¹ / ₁₆	0.715	1 ¹ / ₁₆	1.12	1 ¹ / ₂	⁷ / ₁₆	13 ¹ / ₄	3 ¹ / ₂ ^d
>50 ^e	14.7	16.3	16 ⁵ / ₁₆	0.380	³ / ₁₆	³ / ₁₆	7.07	7 ¹ / ₁₆	0.630	³ / ₁₆	1.03	1 ¹ / ₂	1 ¹ / ₂	↓	↓
>45 ^e	13.3	16.1	16 ⁵ / ₁₆	0.345	³ / ₁₆	³ / ₁₆	7.04	7	0.565	³ / ₁₆	0.967	1 ¹ / ₂	1 ¹ / ₂	↓	↓
>40 ^e	11.8	16.0	16	0.305	³ / ₁₆	³ / ₁₆	7.00	7	0.505	¹ / ₂	0.907	1 ¹ / ₂	1 ¹ / ₂	↓	↓
>36 ^e	10.6	15.9	15 ⁷ / ₁₆	0.295	³ / ₁₆	³ / ₁₆	6.99	7	0.430	³ / ₁₆	0.832	1 ¹ / ₂	⁷ / ₁₆	↓	↓
W16×31 ^e	9.13	15.9	15 ⁷ / ₁₆	0.275	¹ / ₂	¹ / ₂	5.53	5 ¹ / ₂	0.440	³ / ₁₆	0.842	1 ¹ / ₂	⁷ / ₁₆	13 ¹ / ₄	3 ¹ / ₂
>26 ^{e,f}	7.68	15.7	15 ⁷ / ₁₆	0.250	¹ / ₂	¹ / ₂	5.50	5 ¹ / ₂	0.345	³ / ₁₆	0.747	1 ¹ / ₂	⁷ / ₁₆	13 ¹ / ₄	3 ¹ / ₂
W14×730 ^h	215	22.4	22 ⁵ / ₁₆	3.07	3 ¹ / ₂	1 ¹ / ₂	17.9	17 ¹ / ₁₆	4.91	4 ¹ / ₁₆	5.51	6 ³ / ₁₆	2 ¹ / ₂	10	3-7 ¹ / ₁₆ -3 ³ / ₁₆
>665 ^h	196	21.6	21 ¹ / ₂	2.83	2 ¹ / ₂	1 ¹ / ₂	17.7	17 ¹ / ₁₆	4.52	4 ¹ / ₁₆	5.12	5 ¹ / ₁₆	2 ¹ / ₂	↓	3-7 ¹ / ₁₆ -3 ³ / ₁₆
>605 ^h	178	20.9	20 ⁵ / ₁₆	2.60	2 ¹ / ₂	1 ¹ / ₂	17.4	17 ¹ / ₁₆	4.16	4 ¹ / ₁₆	4.76	5 ¹ / ₁₆	2 ¹ / ₂	↓	3-7 ¹ / ₁₆ -3 ³ / ₁₆
>550 ^h	162	20.2	20 ¹ / ₂	2.38	2 ¹ / ₂	1 ¹ / ₂	17.2	17 ¹ / ₁₆	3.82	3 ¹ / ₁₆	4.42	5 ¹ / ₁₆	2 ¹ / ₂	↓	↓
>500 ^h	147	19.6	19 ⁵ / ₁₆	2.19	2 ¹ / ₂	1 ¹ / ₂	17.0	17	3.50	3 ¹ / ₂	4.10	4 ¹ / ₁₆	2 ¹ / ₂	↓	↓
>455 ^h	134	19.0	19	2.02	2	1	16.8	16 ⁵ / ₁₆	3.21	3 ¹ / ₁₆	3.81	4 ¹ / ₁₆	2 ¹ / ₂	↓	↓
>426 ^h	125	18.7	18 ⁵ / ₁₆	1.88	1 ¹ / ₂	¹ / ₂	16.7	16 ⁵ / ₁₆	3.04	3 ¹ / ₁₆	3.63	4 ¹ / ₁₆	2 ¹ / ₂	↓	↓
>398 ^h	117	18.3	18 ¹ / ₂	1.77	1 ¹ / ₂	³ / ₁₆	16.6	16 ⁵ / ₁₆	2.85	2 ¹ / ₁₆	3.44	4 ¹ / ₁₆	2 ¹ / ₂	↓	↓
>370 ^h	109	17.9	17 ⁵ / ₁₆	1.66	1 ¹ / ₂	1 ¹ / ₂	16.5	16 ⁵ / ₁₆	2.66	2 ¹ / ₁₆	3.26	3 ¹ / ₁₆	2 ¹ / ₂	↓	↓
>342 ^h	101	17.5	17 ¹ / ₂	1.54	1 ¹ / ₂	1 ¹ / ₂	16.4	16 ⁵ / ₁₆	2.47	2 ¹ / ₁₆	3.07	3 ¹ / ₁₆	2	↓	↓
>311 ^h	91.4	17.1	17 ¹ / ₁₆	1.41	1 ¹ / ₂	³ / ₁₆	16.2	16 ⁵ / ₁₆	2.26	2 ¹ / ₁₆	2.86	3 ¹ / ₁₆	1 ¹ / ₂	↓	↓
>283 ^h	83.3	16.7	16 ⁵ / ₁₆	1.29	1 ¹ / ₂	1 ¹ / ₂	16.1	16 ⁵ / ₁₆	2.07	2 ¹ / ₁₆	2.67	3 ¹ / ₁₆	1 ¹ / ₂	↓	↓
>257 ^h	75.6	16.4	16 ¹ / ₂	1.18	1 ¹ / ₂	³ / ₁₆	16.0	16	1.89	1 ¹ / ₁₆	2.49	3 ¹ / ₁₆	1 ¹ / ₂	↓	↓
>233 ^h	68.5	16.0	16	1.07	1 ¹ / ₂	³ / ₁₆	15.9	15 ⁷ / ₁₆	1.72	1 ¹ / ₁₆	2.32	3	1 ¹ / ₂	↓	↓
>211 ^h	62.9	15.7	15 ¹ / ₂	0.980	1	¹ / ₂	15.8	15 ¹ / ₂	1.56	1 ¹ / ₁₆	2.16	2 ¹ / ₁₆	1 ¹ / ₂	↓	↓
>193 ^h	56.8	15.5	15 ¹ / ₂	0.890	³ / ₁₆	³ / ₁₆	15.7	15 ¹ / ₂	1.44	1 ¹ / ₁₆	2.04	2 ¹ / ₁₆	1 ¹ / ₂	↓	↓
>176 ^h	51.8	15.2	15 ¹ / ₂	0.830	¹ / ₂	³ / ₁₆	15.7	15 ¹ / ₂	1.31	1 ¹ / ₁₆	1.91	2 ¹ / ₁₆	1 ¹ / ₂	↓	↓
>159 ^h	46.7	15.0	15	0.745	³ / ₁₆	³ / ₁₆	15.6	15 ¹ / ₂	1.19	1 ¹ / ₁₆	1.79	2 ¹ / ₁₆	1 ¹ / ₂	↓	↓
>145 ^h	42.7	14.8	14 ³ / ₄	0.680	1 ¹ / ₂	³ / ₁₆	15.5	15 ¹ / ₂	1.09	1 ¹ / ₁₆	1.69	2 ¹ / ₁₆	1 ¹ / ₂	↓	↓

^a Shape is slender for compression with $F_y = 50$ ksi.

^b The actual size, combination, and orientation of fastener components should be compared with the geometry of the cross-section to ensure compatibility.

^c Flange thickness greater than 2 in. Special requirements may apply per AISC Specification Section A3.1c.

^d Shape does not meet the A/L_w limit for shear in Specification Section G2.1a with $F_y = 50$ ksi.

Aisc Table Steel Construction Manual

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Concrete PCI Seismic Design Manual AISC 327 Special Design Provisions for Wind and Seismic with Commentary SDPWS Steel Construction Manual AISC 325 *Steel Designers' Handbook 8th Edition* Branko Gorenc, A. Syam, Ronald Tinyou, 2013-03 Fully revised and updated this eighth edition is an invaluable tool for all practicing structural civil and mechanical engineers as well as engineering students Responding to changes in design and processing standards including fabrication welding and coatings this resource introduces the main concepts of designing steel structures describes the limit states method of design demonstrates the methods of calculating the design capacities of structural elements and connections and illustrates the calculations by means of worked examples Design aids and extensive references to external sources are also included **Unified Design of Steel Structures** Louis F. Geschwindner, 2011-12-20 Geschwindner's 2nd edition of *Unified Design of Steel Structures* provides an understanding that structural analysis and design are two integrated processes as well as the necessary skills and knowledge in investigating designing and detailing steel structures utilizing the latest design methods according to the AISC Code The goal is to prepare readers to work in design offices as designers and in the field as inspectors This new edition is compatible with the 2011 AISC code as well as marginal references to the AISC manual for design examples and illustrations which was seen as a real advantage by the survey respondents Furthermore new sections have been added on Direct Analysis Torsional and flexural torsional buckling of columns Filled HSS columns and Composite column interaction More real world examples are included in addition to new use of three dimensional illustrations in the book and in the image gallery an increased number of homework problems and media approach Solutions Manual Image Gallery *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

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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

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

Design Manual, Mechanical Engineering United States. Bureau of Yards and Docks, 1962 **Steel Designers' Handbook** Branko Gorenc, Ronald Tinyou, Arun Syam, 2005 This book makes extensive use of worked numerical examples to demonstrate the methods of calculating the capacities of structural elements These examples have been extensively revised from the previous edition with further examples added The worked examples are cross referenced to the relevant clauses in AS 4100 1998 BOOK JACKET *Handbook for Blast Resistant Design of*

Buildings Donald O. Dusenberry, 2010-01-26 Unique single reference supports functional and cost efficient designs of blast resistant buildings Now there s a single reference to which architects designers and engineers can turn for guidance on all the key elements of the design of blast resistant buildings that satisfy the new ASCE Standard for Blast Protection of Buildings as well as other ASCE ACI and AISC codes The Handbook for Blast Resistant Design of Buildings features contributions from some of the most knowledgeable and experienced consultants and researchers in blast resistant design This handbook is organized into four parts Part 1 Design Considerations sets forth basic principles examining general considerations in the design process risk analysis and reduction criteria for acceptable performance materials performance under the extraordinary blast environment and performance verification for technologies and solution methodologies Part 2 Blast Phenomena and Loading describes the explosion environment loading functions needed for blast response analysis and fragmentation and associated methods for effects analysis Part 3 System Analysis and Design explains the analysis and design considerations for structural building envelope component space site perimeter and building system designs Part 4 Blast Resistant Detailing addresses the use of concrete steel and masonry in new designs as well as retrofitting existing structures As the demand for blast resistant buildings continues to grow readers can turn to the Handbook for Blast Resistant Design of Buildings a unique single source of information to support competent functional and cost efficient designs General Design Standards United States. Bureau of Reclamation, 1992 **PPI PE Structural 16-Hour Practice Exam for Buildings, 6th Edition - 1 Year** Joseph S Schuster, 2022-06-21 PE Structural 16 Hour Practice Exam for Buildings Sixth Edition offers comprehensive practice for the NCEES PE Structural SE exam This book is part of a comprehensive learning management system designed to help you pass the PE Structural exam the first time PE Structural 16 Hour Practice Exam for Buildings Sixth Edition features include The Most Realistic Practice for the PE Structural Exam Two 40 problem multiple choice breadth exams Two four essay depth exams consistent with the NCEES PE Structural exam s format and specifications Multiple choice problems require an average of six minutes to solve Essay problems can be solved in one hour Comprehensive step by step solutions for all problems demonstrate accurate and efficient problem solving approaches Solutions to the depth exams essay problems use blue text to identify the information you will be expected to include in your exam booklet to receive full credit Supplemental content uses black text to enhance your understanding of the solution process Referenced Codes and Standards AASHTO LRFD Bridge Design Specifications AASHTO 8th Ed Building Code Requirements and Specification for Masonry Structures TMS 402 602 2016 Ed Building Code Requirements for Structural Concrete ACI 318 2014 Ed International Building Code IBC 2018 Ed Minimum Design Loads for Buildings and Other Structures ASCE SEI7 2016 Ed National Design Specification for Wood Construction ASD LRFD and National Design Specification Supplement Design Values for Wood Construction NDS 2018 Ed Seismic Design Manual AISC 327 3rd Ed Special Design Provisions for Wind and Seismic with Commentary SDPWS 2015 Ed Steel Construction Manual AISC 325 15th

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Reliability Evaluation of Dynamic Systems Excited in Time Domain - Redset Achintya Haldar, Hamoon Azizoltani, J. Ramon Gaxiola-Camacho, Sayyed Mohsen Vazirizade, Jungwon Huh, 2023-02-17

RELIABILITY EVALUATION OF DYNAMIC SYSTEMS EXCITED IN TIME DOMAIN REDSET Multi disciplinary approach to structural reliability analysis for dynamic loadings offering a practical alternative to the random vibration theory and simulation

Reliability Evaluation of Dynamic Systems Excited in Time Domain REDSET is a multidisciplinary concept that enables readers to estimate the underlying risk that could not be solved in the past The major hurdle was that the required limit state functions LSFs are implicit in nature and the lack of progress in the reliability evaluation methods for this class of problems The most sophisticated deterministic analysis requires that the dynamic loadings must be applied in the time domain To satisfy these requirements REDSET is developed Different types and forms of dynamic loadings including seismic wind induced wave and thermomechanical loading in the form of heating and cooling of solder balls used in computer chips are considered to validate REDSET Time domain representations and the uncertainty quantification procedures including the use of multiple time histories are proposed and demonstrated for all these dynamic loadings Both onshore and offshore structures are used for validation The potential of REDSET is demonstrated for implementing the Performance Based Seismic Design PBSDB concept now under development in the United States For wider multidisciplinary applications structures are represented by finite elements to capture different types of nonlinearity more appropriately Any computer program capable of conducting nonlinear time domain dynamic analysis can be used and the underlying risk can be estimated with the help of several dozens or hundreds of deterministic finite element analyses providing an alternative to the simulation approach To aid comprehension of REDSET numerous illustrative examples and solution strategies are presented in each chapter Written by award winning thought leaders from academia and professional practice the following sample topics are included Fundamentals of reliability assessment including set theory modeling of uncertainty the risk based engineering design concept and the evolution of reliability assessment methods Implicit performance or limit state functions are expressed explicitly by the extensively modified response surface method with several new experimental designs Uncertainty quantification procedures with multiple time histories for different dynamic loadings illustrated with examples The underlying risk can be estimated using any computer program representing structures by finite elements with only few deterministic analyses REDSET is demonstrated to be an alternative to the classical random vibration concept and the basic simulation procedure for risk estimation purposes REDSET changes the current engineering design paradigm Instead of conducting one deterministic analysis a design can be made more dynamic load tolerant resilient and sustainable with the

help of a few additional deterministic analyses This book describing REDSET is expected to complement two other books published by Wiley and authored by Haldar and Mahadevan Probability Reliability and Statistical Methods in Engineering Design and Reliability Assessment Using Stochastic Finite Element Analysis The book is perfect to use as a supplementary resource for upper level undergraduate and graduate level courses on reliability and risk based design **Aluminum**

Structures J. Randolph Kissell, Robert L. Ferry, 2002-10-02 On the First Edition The book is a success in providing a comprehensive introduction to the use of aluminum structures contains lots of useful information Materials examples of recently built aluminum structures from buildings to bridges and a comparison of aluminum to other structural materials particularly steel Topics covered include Structural properties of aluminum alloys Aluminum structural design for beams columns and tension members Extruding and other fabrication techniques Welding and mechanical connections Aluminum structural systems including space frames composite members and plate structures Inspection and testing Load and resistance factor design Recent developments in aluminum structures **Steel Design** Paul McMullin, Jonathan Price, Richard Seelos, 2017-12-06 Steel Design covers steel design fundamentals for architects and engineers such as tension elements flexural elements shear and torsion compression elements connections and lateral design As part of the Architect's Guidebooks to Structures series it provides a comprehensive overview using both imperial and metric units of measurement Each chapter includes design steps rules of thumb and design examples This book is meant for both professionals and for students taking structures courses or comprehensive studies As a compact summary of key ideas it is ideal for anyone needing a quick guide to steel design More than 150 black and white images are included **Guide to Stability Design**

Criteria for Metal Structures Theodore V. Galambos, 1998-06-15 This book provides simplified and refined procedures applicable to design and to assessing design limitations and offers guidance to design specifications codes and standards currently applied to the stability of metal structures **Urban Habitat Constructions Under Catastrophic Events**

Federico M. Mazzolani, 2010-08-27 COST is an intergovernmental framework for European Cooperation in Science and Technology allowing the coordination of nationally funded research on a European level Part of COST was COST Action C26 Urban Habitat Constructions Under Catastrophic Events which started in 2006 and held its final conference in Naples Italy on 16-18 September 201 *Design of Building Trusses* James Ambrose, 1994-09-28 A practical up to date introduction on truss analysis application and design Describes the influence of trusses on design development as well as the means for design and detailing of truss construction utilizing contemporary building technologies Illustrations include both historical and recent uses of trusses

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