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KEY=MANUAL - HEAVEN ALVARADO

Steel Construction Manual

Amer Inst of Steel Construction Originally published in 1926 [i.e. 1927] under title: Steel construction; title of 8th ed.: Manual of steel construction.

Steel Construction

A Beginner's Guide to the Steel Construction Manual

Designing with the 15th Edition

An introductory textbook for teaching structural steel design to civil and structural engineering students.

Unified Design of Steel Structures

John Wiley & Sons 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 a media approach Solutions Manual, Image Gallery.

Steel Design

Cengage Learning STEEL DESIGN covers the fundamentals of structural steel design with an emphasis on the design of members and their connections, rather than the integrated design of buildings. The book is designed so that instructors can easily teach LRFD, ASD, or both, time-permitting. The application of fundamental principles is encouraged for design procedures as well as for practical design, but a theoretical approach is also provided to enhance student development. While the book is intended for junior- and senior-level engineering students, some of the later chapters can be used in graduate courses and practicing engineers will find this text to be an essential reference tool for reviewing current practices. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Solutions Manual for the Civil Engineering Reference Manual, Sixth Edition

Professional Publications Incorporated The Solutions Manual contains fully worked-out solutions to the practice problems in the Civil Engineering Reference Manual.

Manual of Steel Construction

Steel Designers' Manual Fifth Edition: The Steel Construction

Institute

Wiley-Blackwell This classic manual for structural steelwork design was first published in 1956. Since then, it has sold many thousands of copies worldwide. The fifth edition is the first major revision for 20 years and is the first edition to be fully based on limit state design, now used as the primary design method, and on the UK code of practice, BS 5950. It provides, in a single volume, all you need to know about structural steel design.

Design of Steel Structures

Springer Science & Business Media This book is intended for classroom teaching in architectural and civil engineering at the graduate and undergraduate levels. Although it has been developed from lecture notes given in structural steel design, it can be useful to practicing engineers. Many of the examples presented in this book are drawn from the field of design of structures. Design of Steel Structures can be used for one or two semesters of three hours each on the undergraduate level. For a two-semester curriculum, Chapters 1 through 8 can be used during the first semester. Heavy emphasis should be placed on Chapters 1 through 5, giving the student a brief exposure to the consideration of wind and earthquakes in the design of buildings. With the new federal requirements vis a vis wind and earthquake hazards, it is beneficial to the student to have some understanding of the underlying concepts in this field. In addition to the class lectures, the instructor should require the student to submit a term project that includes the complete structural design of a multi-story building using standard design procedures as specified by AISC Specifications. Thus, the use of the AISC Steel Construction Manual is a must in teaching this course. In the second semester, Chapters 9 through 13 should be covered. At the undergraduate level, Chapters 11 through 13 should be used on a limited basis, leaving the student more time to concentrate on composite construction and built-up girders.

Structural Engineering Reference Manual

Professional Publications Incorporated NEW EDITION The SE Structural Engineering Reference Manual prepares you for the NCEES SE structural engineering exam. It provides a comprehensive review of structural analysis and design methods related to vertical and lateral forces. All exam topics are covered, and exam-adopted codes and standards are frequently referenced.

Steel Design for Structural Engineers

Prentice Hall

Structural Engineering Reference Manual

Professional Publications Incorporated The Structural Engineering Reference Manual is the most comprehensive reference and study guide available for engineers preparing for the NCEES 16-hour Structural PE exam. Nearly 40 practice problems with step-by-step solutions help you sharpen your problem solving skills, while demonstrating how to arrive at solutions most efficiently. Numerous charts, tables, and figures make it possible to work most exam problems using the reference manual alone. Quickly locate the important information you need to solve problems using the comprehensive index. Because the Structural PE exam requires a thorough familiarity with relevant codes, the Structural Engineering Reference Manual, 5th Edition, is updated to the following: 2004 edition of PCI 2005 edition of ASCE 7 2005 edition of NDS 2005 editions of ACI 318 and ACI 530/530.1 2005 edition of AISC, Steel Construction Manual 2006 edition of IBC 2007 edition of AASHTO Exam Topics Covered Reinforced Concrete Design Timber Design Foundations & Retaining Structures Design of Reinforced Masonry Prestressed Concrete Design Seismic Design Structural Steel Design Design of Bridges _____ Since 1975 more than 2 million people preparing for their engineering, surveying, architecture, LEED®, interior design, and landscape architecture exams have entrusted their exam prep to PPI. For more information, visit us at www.ppi2pass.com.

Steel Detailers' Manual

John Wiley & Sons This highly illustrated manual provides practical guidance on structural steelwork detailing. It: describes the common structural shapes in use and how they are joined to form members and complete structures explains detailing practice and conventions provides detailing data for standard sections, bolts and welds emphasises the importance of tolerances in order to achieve proper site fit-up discusses the important link between good detailing and construction costs Examples of structures include single and multi-storey buildings, towers and bridges. The detailing shown will be suitable in principle for fabrication and erection in many countries, and the sizes shown will act as a guide to preliminary design. The second edition has been updated to take account of changes to

standards, including the revisions to BS5950 and includes a new chapter on computer aided detailing.

Steel Designers' Manual

John Wiley & Sons "This classic manual on structural steelwork design was first published in 1955, since when it has sold many tens of thousands of copies worldwide. For the seventh edition all chapters have been comprehensively reviewed, revised to ensure they reflect current approaches and best practice, and brought in to compliance with EN 1993: Design of Steel Structures. The Steel Designers' Manual continues to provide, in one volume, the essential knowledge for the design of conventional steelwork. Key Features: Fully revised to comply with the new EUROCODE standards Packed full of tables, analytical design information and worked examples Contributors number leading academics, consulting engineers and fabricators 'A must for anyone involved in steel design' - Journal of Constructional Steel Research"--

Structural Steel Design

LRFD Method

Prentice Hall the undergraduate course in structural steel design using the Load and Resistance Factor Design Method (LRFD). The text also enables practicing engineers who have been trained to use the Allowable Stress Design procedure (ASD) to change easily to this more economical and realistic method for proportioning steel structures. The book comes with problem-solving software tied to chapter exercises which allows student to specify parameters for particular problems and have the computer assist them. On-screen information about how to use the software and the significance of various problem parameters is featured. The second edition reflects the revised steel specifications (LRFD) of the American Institute of Steel Construction.

Unified Design of Steel Structures with Study Tips Set

PPI Structural Depth Practice Exams for the PE Civil Exam, 4th Edition

eText - 1 Year

Simon and Schuster Two Realistic 40-Problem Structural Depth Exams
Structural Depth Practice Exams for the PE Civil Exam contains two 40-problem, multiple-choice exams consistent with the NCEES PE Civil structural depth exam's format and specifications. Like the actual exam, the problems in this book require an average of six minutes to solve. Comprehensive step-by-step solutions demonstrate accurate and efficient problem-solving approaches. Author commentary is provided in the solutions to explain time-saving shortcuts and common pitfalls. Structural Depth Practice Exams will help you effectively familiarize yourself with the exam scope and format. Quickly identify accurate and efficient problem-solving approaches. Successfully connect relevant theory to exam-like problems. Efficiently navigate through exam-adopted codes and standards. Confidently solve problems under timed conditions. Referenced Codes and Standards AASHTO LRFD Bridge Design Specifications (AASHTO) Building Code Requirements and Specification for Masonry Structures (ACI 530/530.1-13) Building Code Requirements for Structural Concrete (ACI 318) Minimum Design Loads for Buildings and Other Structures (ASCE/SEI7) International Building Code (IBC) National Design Specification for Wood Construction ASD/LRFD (NDS) PCI Design Handbook: Precast and Prestressed Concrete (PCI) Safety and Health Regulations for Construction (OSHA 29 CFR Part 1926) Steel Construction Manual (AISC) **Key Features:** Two 40-problem, multiple-choice exams consistent with the NCEES PE Civil structural depth exam. Comprehensive step-by-step solutions demonstrate accurate and efficient problem-solving approaches. Comprehensive solutions, including commentary by the author, to explain time-saving shortcuts and common pitfalls. **Binding: Paperback Publisher: PPI, A Kaplan Company**

LRFD Steel Design

Brooks/Cole Publishing Company This up-to-date book includes the latest specification from the American Institute of Steel Construction (AISC). The emphasis is on the design of building components in accordance with the provisions of the AISC Load and Resistance Factor Design (LRFD) Specification and the LRFD Manual of Steel Construction. Without requiring students to have a knowledge of stability theory or statically indeterminate structures, the book maintains a balance of background material with applications.

Engineering and Design

Working Stresses for Structural Design

Structural Engineering Reference Manual

Professional Publications Incorporated Comprehensive Coverage of the 16-Hour Structural SE Exam Topics The Structural Engineering Reference Manual prepares you for the NCEES 16-hour Structural SE exam. This book provides a comprehensive review of structural analysis and design methods related to vertical and lateral forces. It also illustrates the most useful equations in the exam-adopted codes and standards, and provides guidelines for selecting and applying these equations. Over 225 example problems illustrate how to apply concepts and use equations, and over 45 end-of-chapter problems let you practice your skills. Each problem's complete solution allows you to check your own approach. You'll benefit from increased proficiency in a broad range of structural engineering topics and improved efficiency in solving related problems. Quick access to supportive information is just as important as knowledge and efficiency. This book's thorough index directs you to the codes and concepts you will need during the exam. Throughout the book, cross references to more than 700 equations, 40 tables, 160 figures, 8 appendices, and the following relevant codes point you to additional support material when you need it.

Topics Covered Reinforced Concrete Foundations and Retaining Structures Prestressed Concrete Structural Steel Timber Reinforced Masonry Lateral Forces (Wind and Seismic) Bridges Referenced Codes and Standards AASHTO LRFD Bridge Design Specifications (AASHTO) Building Code Requirements for Structural Concrete (ACI 318) Steel Construction Manual (AISC 325) Seismic Design Manual (AISC 327) North American Specification for the Design of Cold-Formed Steel Structural Members (AIS) Minimum Design Loads for Buildings and Other Structures (ASCE 7) International Building Code (IBC) National Design Specifications for the Design of Cold-Formed Steel Structural Members (NDS) Special Design Provisions for Wind and Seismic with Commentary (NDS) PCI Design Handbook: Precast and Prestressed Concrete (PCI) Building Code Requirements and Specification for Masonry Structures (TMS 402/602-08)

Seismic Design Manual

PPI PE Structural Reference Manual, 10th Edition – Complete Review for the NCEES PE Structural Engineering (SE) Exam

Simon and Schuster The NCEES SE Exam is Open Book - You Will Want to Bring This Book Into the Exam. Alan Williams' PE Structural Reference Manual Tenth Edition (STRM10) offers a complete review for the NCEES 16-hour Structural Engineering (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 Reference Manual Tenth Edition (STRM10) features include: Covers all exam topics and provides a comprehensive review of structural analysis and design methods New content covering design of slender and shear walls Covers all up-to-date codes for the October 2021 Exams Exam-adopted codes and standards are frequently referenced, and solving methods—including strength design for timber and masonry—are thoroughly explained 270 example problems Strengthen your problem-solving skills by working the 52 end-of-book practice problems Each problem's complete solution lets you check your own solving approach Both ASD and LRFD/SD solutions and explanations are provided for masonry problems, allowing you to familiarize yourself with different problem solving methods. Topics Covered: Bridges Foundations and Retaining Structures Lateral Forces (Wind and Seismic) Prestressed Concrete Reinforced Concrete Reinforced Masonry Structural Steel Timber Referenced Codes and Standards - Updated to October 2021 Exam Specifications: AASHTO LRFD Bridge Design Specifications (AASHTO) Building Code Requirements and Specification for Masonry Structures (TMS 402/602) Building Code Requirements for Structural Concrete (ACI 318) International Building Code (IBC) Minimum Design Loads for Buildings and Other Structures (ASCE 7) National Design Specification for Wood Construction ASD/LRFD and National Design Specification Supplement, Design Values for Wood Construction (NDS) North American Specification for the Design of Cold-Formed Steel Structural Members (AISI) PCI Design Handbook: Precast and Prestressed Concrete (PCI) Seismic Design Manual (AISC 327) Special Design Provisions for Wind and Seismic with Commentary (SDPWS) Steel Construction Manual (AISC 325)

Practice Problems for the Civil Engineering PE Exam

A Companion to the Civil Engineering Reference Manual

Professional Publications Incorporated Of all the PE exams, more people take the civil than any other discipline. The eight-hour, open-book, multiple-choice exam is given every April and October. The exam format is breadth-and-depth -- all examinees are tested on the breadth of civil engineering in the morning session; in the afternoon, they select one of five specialties to be tested on in-depth. Our civil PE books are current with the exam; they reflect the new format, and they reference all the same codes used on the exam. **Practice Problems** is a companion book that contains complete solutions to all the practice problems in the Reference Manual, explaining the most efficient way to reach the correct solution to each problem. -- Step-by-step solutions to all the practice problems in the Reference Manual

Structural Engineering

Steel Structures

Seismic Design Manual, 3rd Edition

Design of Steel Structures

McGraw Hill Professional A straightforward overview of the fundamentals of steel structure design This hands-on structural engineering guide provides concise, easy-to-understand explanations of the design and behavior of steel columns, beams, members, and connections. Ideal for preparing you for the field, **Design of Steel Structures** includes real-world examples that demonstrate practical applications of AISC 360 specifications. You will get an introduction to more advanced topics, including connections, composite members, plate girders, and torsion. This textbook also includes access to companion online videos that help connect theory to practice. Coverage includes: Structural systems and elements Design considerations Tension members Design of columns AISC design requirements Design of beams Torsion Stress analysis and design

considerations Beam-columns Connections Plate girders Intermediate transverse and bearing stiffeners

Structural Engineer's Pocket Book

Elsevier Until now there has been no comprehensive pocket reference guide for professional and student structural engineers. The **Structural Engineers Pocket Book** is a unique compilation of all table, data, facts, formulae and rules of thumb needed for scheme design by structural engineers in the office, in transit or on site. By bringing together data from many sources, this pocket book is a compact source of job-simplifying information at an affordable price. It is a first point of reference as well as saving valuable time spent trying to track down information that is needed on a daily basis. This may be a small book in terms of its physical dimensions, but it contains a wealth of useful engineering knowledge. Concise and precise, the book is split into 13 sections, with quick and clear access to subject areas including: timber, masonry, concrete, aluminium and glass. British Standards are used and referenced throughout. *the only book of its kind for structural engineers. *brings together information from many different sources for the first time. *comprehensive, yet concise and affordable.

Legal Aspects of Architecture, Engineering & the Construction Process

Cengage Learning The primary focus of this text is to provide a bridge for students between the academic world and the real world. This bridge is built through an understanding of what is law, how law is created, how law affects almost every activity of human conduct, and how legal institutions operate. Intended mainly for architectural and engineering students, but increasingly for those in business schools and law schools, this text features a clear, concise, and jargon-free presentation. It probes beneath the surface of legal rules and uncovers why these rules developed as they did, outlines arguments for and against these rules, and examines how they work in practice. Updated with the most recent developments in the legal aspects of architectural, engineering, and the construction processes, this text is also a valuable reference for practitioners that has been cited in over twenty-five court decisions. **Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.**

Design of Steel Structures

Springer This book is intended for classroom teaching in architectural and civil engineering at the graduate and undergraduate levels. Although it has been developed from lecture notes given in structural steel design, it can be useful to practicing engineers. Many of the examples presented in this book are drawn from the field of design of structures. Design of Steel Structures can be used for one or two semesters of three hours each on the undergraduate level. For a two-semester curriculum, Chapters 1 through 8 can be used during the first semester. Heavy emphasis should be placed on Chapters 1 through 5, giving the student a brief exposure to the consideration of wind and earthquakes in the design of buildings. With the new federal requirements vis a vis wind and earthquake hazards, it is beneficial to the student to have some understanding of the underlying concepts in this field. In addition to the class lectures, the instructor should require the student to submit a term project that includes the complete structural design of a multi-story building using standard design procedures as specified by AISC Specifications. Thus, the use of the AISC Steel Construction Manual is a must in teaching this course. In the second semester, Chapters 9 through 13 should be covered. At the undergraduate level, Chapters 11 through 13 should be used on a limited basis, leaving the student more time to concentrate on composite construction and built-up girders.

Structural Steel Design

Mercury Learning and Information Structural Steel Design, Third Edition is a simple, practical, and concise guide to structural steel design - using the Load and Resistance Factor Design (LRFD) and the Allowable Strength Design (ASD) methods -- that equips the reader with the necessary skills for designing real-world structures. Civil, structural, and architectural engineering students intending to pursue careers in structural design and consulting engineering, and practicing structural engineers will find the text useful because of the holistic, project-based learning approach that bridges the gap between engineering education and professional practice. The design of each building component is presented in a way such that the reader can see how each element fits into the entire building design and construction process. Structural details and practical example exercises that realistically mirror what obtains in professional design practice are presented. Features: - Includes updated content/example exercises that conform to the current codes (ASCE 7, ANSI/AISC 360-16, and IBC) - Adds coverage to ASD and examples with ASD to parallel those that are done LRFD - Follows a holistic approach to structural steel design that considers the design of individual steel framing members in the context of a complete structure.

The Manual of Bridge Engineering

Thomas Telford - Bridge type, behaviour and appearance David Bennett, David Bennett Associates · History of bridge development · Bridge form · Behaviour - Loads and load distribution Mike Ryall, University of Surrey · Brief history of loading specifications · Current code specification · Load distribution concepts · Influence lines - Analysis Professor R Narayanan, Consulting Engineer · Simple beam analysis · Distribution co-efficients · Grillage method · Finite elements · Box girder analysis: steel and concrete · Dynamics - Design of reinforced concrete bridges Dr Paul Jackson, Gifford and Partners · Right slab · Skew slab · Beam and slab · Box - Design of prestressed concrete bridges Nigel Hewson, Hyder Consulting · Pretensioned beams · Beam and slab · Pseudo slab · Post tensioned concrete beams · Box girders - Design of steel bridges Gerry Parke and John Harding, University of Surrey · Plate girders · Box girders · Orthotropic plates · Trusses - Design of composite bridges David Collings, Robert Benaim and Associates · Steel beam and concrete · Steel box and concrete · Timber and concrete - Design of arch bridges Professor Clive Melbourne, University of Salford · Analysis · Masonry · Concrete · Steel · Timber - Seismic analysis of design Professor Elnashai, Imperial College of Science, Technology and Medicine · Modes of failure in previous earthquakes · Conceptual design issues · Brief review of seismic design codes - Cable stayed bridges - Daniel Farquhar, Mott Macdonald · Analysis · Design · Construction - Suspension bridges Vardaman Jones and John Howells, High Point Rendel · Analysis · Design · Construction - Moving bridges Charles Birnstiel, Consulting engineer · History · Types · Special problems - Substructures Peter Lindsell, Peter Lindsell and Associates · Abutments · Piers - Other structural elements Robert Broome et al, WS Atkins · Parapets · Bearings · Expansion joints - Protection Mike Mulheren, University of Surrey · Drainage · Waterproofing · Protective coating/systems for concrete · Painting system for steel · Weathering steel · Scour protection · Impact protection - Management systems and strategies Perrie Vassie, Transport Research Laboratory · Inspection · Assessment · Testing · Rate of deterioration · Optimal maintenance programme · Prioritisation · Whole life costing · Risk analysis - Inspection, monitoring, and assessment Charles Abdunur, Laboratoire Central Des Ponts et Chaussées · Main causes of deterioration · Investigation methods · Structural evaluation tests · Stages of structural assessment · Preparing for recalculation - Repair and Strengthening John Darby, Consulting Engineer · Repair of concrete structures · Metal structures · Masonry structures · Replacement of structures

Basic Steel Design

Prentice Hall

Minimum Design Loads and Associated Criteria for Buildings ...

The Civil Engineering Handbook

CRC Press First published in 1995, the award-winning Civil Engineering Handbook soon became known as the field's definitive reference. To retain its standing as a complete, authoritative resource, the editors have incorporated into this edition the many changes in techniques, tools, and materials that over the last seven years have found their way into civil engineering research and practice. The Civil Engineering Handbook, Second Edition is more comprehensive than ever. You'll find new, updated, and expanded coverage in every section. In fact, more than 1/3 of the handbook is new or substantially revised. In particular you'll find increased focus on computing reflecting the rapid advances in computer technology that has revolutionized many aspects of civil engineering. You'll use it as a survey of the field, you'll use it to explore a particular subject, but most of all you'll use The Civil Engineering Handbook to answer the problems, questions, and conundrums you encounter in practice.

Manual of Steel Construction: Connections

Amer Inst of Steel Construction Includes bibliographical references and index.

Highway Bridge Superstructure Engineering

LRFD Approaches to Design and Analysis

CRC Press A How-To Guide for Bridge Engineers and Designers Highway Bridge Superstructure Engineering: LRFD Approaches to Design and Analysis provides a detailed discussion of traditional structural design

perspectives, and serves as a state-of-the-art resource on the latest design and analysis of highway bridge superstructures. This book is applicable to highway

Structural Engineering. Steel Structures. Design Manual 2.3

Basic criteria for the design of structural elements and systems fabricated of various alloys of structural steel are presented for use by experienced engineers. Design standards are established for Class A (Bridge), Class B (Building), and Class C (Special) structures. A discussion of special considerations related to the design of certain types of steel structures such as crane runways, towers, stacks, and storage tanks is included. Problems of corrosion, abrasion, design of expansion joints, and exposure to extreme temperature are discussed. (Author).

Cost Optimization of Structures

Fuzzy Logic, Genetic Algorithms, and Parallel Computing

John Wiley & Sons While the weight of a structure constitutes a significant part of the cost, a minimum weight design is not necessarily the minimum cost design. Little attention in structural optimization has been paid to the cost optimization problem, particularly of realistic three-dimensional structures. Cost optimization is becoming a priority in all civil engineering projects, and the concept of Life-Cycle Costing is penetrating design, manufacturing and construction organizations. In this groundbreaking book the authors present novel computational models for cost optimization of large scale, realistic structures, subjected to the actual constraints of commonly used design codes. As the first book on the subject this book:

- Contains detailed step-by-step algorithms
- Focuses on novel computing techniques such as genetic algorithms, fuzzy logic, and parallel computing
- Covers both Allowable Stress Design (ASD) and Load and Resistance Factor Design (LRFD) codes
- Includes realistic design examples covering large-scale, high-rise building structures
- Presents computational models that enable substantial cost savings in the design of structures
- Fully automated structural design and cost optimization is where large-scale design technology is heading, thus Cost Optimization of Structures: Fuzzy Logic, Genetic Algorithms, and Parallel Computing will be of great interest to civil and structural engineers, mechanical engineers, structural design software developers, and architectural engineers involved in the design of structures and life-cycle cost optimisation. It is also a pioneering text for

graduate students and researchers working in building design and structural optimization.

Handbook of Steel Connection Design and Details

McGraw Hill Professional The Definitive Guide to Steel Connection Design Fully updated with the latest AISC and ICC codes and specifications, Handbook of Structural Steel Connection Design and Details, Second Edition, is the most comprehensive resource on load and resistance factor design (LRFD) available. This authoritative volume surveys the leading methods for connecting structural steel components, covering state-of-the-art techniques and materials, and includes new information on welding and connections. Hundreds of detailed examples, photographs, and illustrations are found throughout this practical handbook. Handbook of Structural Steel Connection Design and Details, Second Edition, covers:

- Fasteners and welds for structural connections
- Connections for axial, moment, and shear forces
- Welded joint design and production
- Splices, columns, and truss chords
- Partially restrained connections
- Seismic design
- Structural steel details
- Connection design for special structures
- Inspection and quality control
- Steel deck connections
- Connection to composite members

Build with Steel

A Companion to the AISC Manual

BUILD WITH STEEL introduces beginners to load and resistance factor design (LRFD) for steel buildings. The book covers the topics encountered in undergraduate steel design courses and on national exams (FE and PE). The full color layout is rich with photos, illustrations, and examples. It carefully explains the basis and application of the tables and specifications found in the AISC Steel Construction Manual (14th edition). Royalty Free.