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The design of structural steel members has developed over the past century from a simple approach involving a few basic properties of steel and elementary mathematics to a more sophisticated treatment demanding a thorough knowledge of structural and material behavior. Steel Structures: Design and Behavior, 5/e strives to present in a logical manner the theoretical background needed for developing and explaining design requirements. Beginning with coverage of background material, including references to pertinent research, the development of specific formulas used in the AISC Specifications is followed by a generous number of design examples explaining in detail the process of selecting minimum weight members to satisfy given conditions.

Appropriate for civil engineering courses in structural steel design, the fourth edition of this classic text provides background for designing steel structural elements using the 1993 AISC Load and Resistance Factor Design (LRFD) and the 1989 AISC Allowable Stress Design (ASD) Specifications. As in previous successful editions, a logical sequence of topics is featured, making complex material easy to understand. Emphasis throughout is placed on the explanation of the LRFD approach involving "limit states" and factored loads. To provide secondary coverage for the major topics--such as tension members, axially loaded columns, beams, beam-columns, and composite construction--the ASD formulations are developed from the strength-related concepts of LRFD. Throughout the book, all concepts are illustrated by numerical examples using LRFD; for the most important concepts, examples using ASD are also included. Many new end-of-chapter problems and references round out the text's presentation. Learning Aids Large Quantity of Numerical Examples * Problems on Design Procedures * Chapter Introductions Supplements For the Instructor: "Solutions Manual," available only from your sales specialist.

Learning Aids Large Quantity of Numerical Examples * Problems on Design Procedures * Chapter Introductions Supplements For the Instructor:

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The fully revised fourth edition of this successful textbook fills a void which will arise when British designers start using the European steel code EC3 instead of the current steel code BS5950. The principal feature of the fourth edition is the discussion of the behaviour of steel structures and the criteria used in design according to the British version of EC3. Thus it serves to bridge the gap which too often occurs when attention is concentrated on methods of analysis and the sizing of structural components. Because emphasis is placed on the development of an understanding of behaviour, many analytical details are either omitted in favour of more descriptive explanations, or are relegated to appendices. The many worked examples both illustrate the behaviour of steel structures and exemplify details of the design process. The Behaviour and Design of Steel Structures to EC3 is a key text for senior undergraduate and graduate students, and an essential reference tool for practising structural engineers in the UK and other countries.

Steel and Composite Structures: Behaviour and Design for Fire Safety presents a systematic and thorough description of the behaviour of steel and composite structures in fire, and shows how design methods are developed to quantify our understanding. Quantitative descriptions of fire behaviour, heat transfer in construction elements and structural analysis using numerical methods are all addressed and existing codes and standards for steel and composite fire safety design are critically examined. Using a comprehensive and systematic description of structural fire safety engineering principles, the author explains and illustrates the important difference between the behaviour of isolated structural elements and whole structures under fire conditions. This book is a vital source of information to structural and fire engineers. It will also be of considerable interest and value to students and researchers in this field.

Behavior and Design of High-Strength Constructional Steel presents readers with extensive information on the behavior of high-strength constructional steels, providing them with the confidence they need to use them in a safe and economic manner to design and construct steel structures. The book includes detailed discussions on the mechanical properties of HSS while explaining the latest progress in research and design guidelines, including material properties at ambient and elevated temperatures. In addition, the book explains the behavior of elementary members subject to different types of loads and load combinations, and those that are integral to the design of bolted and welded connections. The hysteretic behavior of HSS materials and members are also discussed. This is critical for application and designs under earthquakes and fire conditions. The buckling behaviors of HSS box-section and H-section columns are included in terms of experimental and numerical investigations, along with the geometric imperfection induced by welding. Provides a comprehensive review on the topic of high-strength constructional steel and the latest progress in research and design guidelines Explains the behavior of elementary members subjected to different types of loads and load combinations Recommends structural systems for using high-strength constructional steels in seismic zones

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

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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

This book publishes the proceedings from the Third International Workshop on Connections in Steel Structures: Behaviour, Strength and Design held in Trento, Italy, 29-31 May 1995. The workshop brought together the world's foremost experts in steel connections research, development, fabrication and design. The scope of the papers reflects state-of-the-art issues in all areas of endeavour, and manages to bring together the needs of researchers as well as designers and fabricators. Topics of particular importance include connections for composite (steel-concrete) structures, evaluation methods and reliability issues for semi-rigid connections and frames, and the impact of extreme loading events such as those imposed by major earthquakes. The book highlights novel methods and applications in the field and ensures that designers and other members of the construction industry gain access to the new results and procedures.

In 1988 the American Institute of Steel Construction changed the method from Allowable Stress Design (ASD) to Load Resistance Factor Design (LRFD) on which the building code is based. This text develops a treatment of steel which is behavior-oriented and explains the causation for the LRFD approach. Focuses on creating cost-effective solutions for designing situations efficiently; discusses problems engineers must face on a regular basis; and offers insight into potential areas of concern. Also covers earthquake resistant design procedure. Includes over 400 drawings and 36 photos.

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