



Steel Structures: Design and Behavior (4th Edition)

By Charles G. Salmon, John E. Johnson

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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. The fourth edition of this best-selling work reflects the latest changes occurring in the design requirements for structural steel using the 1993 AISC Load and Resistance Factor Design and the 1989 AISC Allowable Stress Design Specifications. Although emphasis throughout the text is on an explanation of the LRFD approach involving "limit states" and factored loads, the ASD formulations are developed from the strength-related concepts of LRFD for the major topics (such as tension members, axially loaded columns, beams, and composite construction). Noted for its logical and thorough presentation of the theoretical background needed for developing and explaining design requirements, Steel Structures uses a generous number of numerical design examples to demonstrate the process of selecting minimum weight members to satisfy given conditions. Considerable attention has been paid to presenting for the beginning student the necessary elastic and inelastic stability concepts, the understanding of which is essential to properly apply steel design rules.

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Editorial Review

From the Back Cover

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.

Users Review

From reader reviews:

Lauren Marine:

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Michael Farrell:

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Roberto Garcia:

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