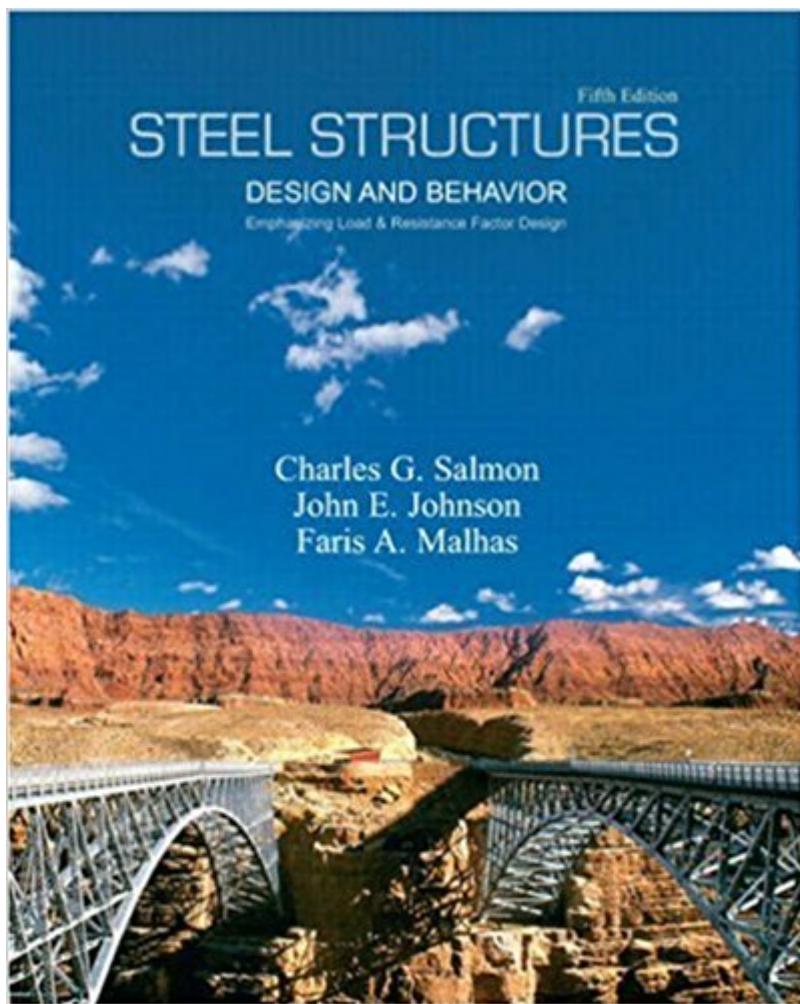


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Steel Structures: Design And Behavior (5th Edition)



Synopsis

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/eÂ strives to present in a logical manner the theoretical background needed for developing and explaining design requirements.Â 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.

Book Information

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Customer Reviews

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. --This text refers to an out of print or unavailable edition of this title.

The AISC Manual of Steel Construction is basically the steel bible complete with the numerous design examples and so forth. However, attempting to do steel design with that book alone does have its occasional short comings. This book bridges the gaps and fills in the blanks and allows the designer to have a better understanding of why he's doing what he's doing. I bought it because not only do I design, but I lecture as well; and I need to have sound understanding of the material before I present it to my students. My weaknesses were block shear rupture and welding. After reading this book and using it in conjunction with my AISC Manual, I am much more comfortable when designing structural steel braced and FR moment connections. I tend to use flange plates and single shear plates a lot and used to over design to compensate for my lack of understanding. Use this book together with your AISC Manual 13th Edition and your AISC Design Guides and you will be in a very good position to handle most structural steel design problems encountered. The book format and way of presenting information is userfriendly and has a striking resemblance to Reinforced Concrete Design by James MacGregor (another very informative and helpful technical resource). All formulae and nomenclature are explained and referenced properly so that it does not lose or frustrate the reader.

The book itself is nice. Covers a lot, pretty straight forward. However the hardcopy of the book is already coming apart. I've had it barely 1 month, and I only use it at my desk yet the entire binding is already broken from just turning the pages like you normally would. Not satisfied with the quality of the book.

I bought this as the required textbook for my graduate Steel Structures II class. While I didn't use the book a lot in class, I am still glad I have it, although it really isn't the go-to reference it could be. The 5th edition is very similar to the 4th edition, only it has been updated to follow the AISC 13th edition steel design specification. In keeping with the combined nature of the 13th edition code, there are examples in both ASD and LRFD design philosophies. All the basic and many advanced steel design concepts provided in the AISC steel code are covered in the book (including plate girders and torsion), but I feel that some of the topics could be covered more thoroughly. The

sections on composite members and beam-columns are rudimentary and much of the time the AISC Steel Construction Manual offers more and better explanations (in both the code and commentary). The chapter on plate girders is pretty good and the one I found to be the most useful. It was also nice to see the inclusion of a section on torsion, which is often omitted from basic steel design textbooks. In conclusion, this isn't a single spectacular textbook or reference, but it is useful to have around.

Excelent book, a little outdated... but great... i will buy the next edition when they published it.

The product was defective. Pages easily pull out. There was a problem with the bonding process. was great though and is replacing it and paying for returning the item to them.

All that you need for any level steel design class

The book of Salmon and Johnson allways has been a reference in any design in US, together with the book of Omar Blodgett. Still having quality, explain very well the formulas behind the code. It is a must!

Perfect!! love it

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