

The book was found

# Unified Design Of Steel Structures



## Synopsis

Unified Design of Steel Structures, 3rd edition, continues the unified LRFD and ASD approach to teaching structural steel design established in the first two editions. It addresses the design of steel structures for buildings as governed by the ANSI/AISC 360-16 Specification for Structural Steel Buildings, published by the American Institute of Steel Construction (AISC). It is intended primarily as a text for a first course in steel design for civil and architectural engineers. Such a course usually occurs in the third or fourth year of an engineering program. The book can also be used in a second, building-oriented course in steel design, depending on the coverage in the first course. In addition to its use as a textbook, it provides a good review for practicing engineers looking to learn the provisions of the latest specification or to convert their practice from any of the old specifications to the new specification. Users are expected to have a firm knowledge of statics and strength of materials and have easy access to the AISC Steel Construction Manual, 15th Edition. All examples that rely on LRFD and ASD provisions are fully presented, even if it means some duplication, so that regardless of approach being taught, there will be no need to refer to the other approach example. All homework problems that could be LRFD or ASD are presented both ways so that the instructor may choose the approach they want the student to follow. Subjects addressed include: principles of limit states design; load factors, resistance factors, and safety factors; tension member design; column or compression member design; beam or bending member design; plate girder design; design of beam-columns or members subjected to combined axial load and bending; bracing member design; composite member design; connection basics including bolts, welds, and connecting elements; design of shear connections, light bracing connections and direct bearing connections; design of moment connections; and basics of seismic design. Unified Design of Steel Structures, 3rd edition, also features multi-chapter problems and a new Integrated Design Project. Instructors can add a few, selected problems throughout the term, or include a full project, design of a four-story office building. Either way, all of the tools are here to help students learn how to apply the AISC Specification to the design of a structural steel building. Sample pages from the AISC Steel Construction Manual can be found throughout the book. Students can easily reference design aids and quickly learn how to use them. Keywords: steel design, beam design, column design, beam-column design, composite design, connection design, AISC

## Book Information

Paperback: 626 pages

Publisher: CreateSpace Independent Publishing Platform (May 3, 2017)

Language: English

ISBN-10: 1543207529

ISBN-13: 978-1543207521

Product Dimensions: 8.5 x 1.4 x 11 inches

Shipping Weight: 3.9 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars 2 customer reviews

Best Sellers Rank: #19,155 in Books (See Top 100 in Books) #9 in [Books > Engineering & Transportation > Engineering > Civil & Environmental > Structural](#)

## Customer Reviews

Louis F. Geschwindner, Ph.D., P.E.; Former Vice President of Engineering and Research, American Institute of Steel Construction; Professor Emeritus of Architectural Engineering, The Pennsylvania State University; and Senior Consultant, Providence Engineering Corporation  
Judy Liu, Ph.D.; Professor, School of Civil and Construction Engineering, Oregon State University  
Charles J. Carter, Ph.D, S.E.; President, American Institute of Steel Construction

This is a very good steel design textbook, among the best available for introductory or intermediate courses. I plan on using it in the courses that I teach for a few reasons. 1) It is written in a matter-of-fact way and rarely gets into the weeds while maintaining technical rigor. 2) It describes fundamental behavior, but is also closely tied to the AISC Manual (explaining where information is located and how to use the many tables) 3) The content of this textbook is up to date with the 2016 Specification. 4) There are plenty of detailed examples. 5) For instructors, the problem solutions that have been released so far are very clear. 6) The price is reasonable, which is particularly important since a student would need to have the Manual as well.

Perfect, I'm a lecturer and I will take this book as a textbook for this year 2017-2018, so every student in my class should buy this book. It is really cheap to buy if compared with the old edition. The chapters are arranged in excellent processes and idea.

[Download to continue reading...](#)

Unified Design of Steel Structures  
Steel Structures: Design and Behavior 4th Edition (Book Only)  
Steel Structures: Design and Behavior (5th Edition)  
Ductile Design of Steel Structures, 2nd Edition (P/L Custom Scoring Survey)  
Design and Analysis of Composite Structures: With Applications to Aerospace Structures  
Fretboard Roadmaps - Lap Steel Guitar: The Essential Patterns That All

Great Steel Players Know and Use Coming Out (Danielle Steel) (Danielle Steel) Steel: The Story of Pittsburgh's Iron and Steel Industry, 1852-1902 Advanced High Strength Steel and Press Hardening: Proceedings of the 3rd International Conference on Advanced High Strength Steel and Press Hardening - Ichnsu 2016 Steel & Stone Companion Collection (Steel & Stone Book 6) Object-Oriented Analysis and Design with the Unified Process (Available Titles CengageNOW) Graphic Design Success: Over 100 Tips for Beginners in Graphic Design: Graphic Design Basics for Beginners, Save Time and Jump Start Your Success (graphic ... graphic design beginner, design skills) Starting Out with Java: From Control Structures through Data Structures (3rd Edition) Introduction to Structures (Architect's Guidebooks to Structures) Anatomy of Orofacial Structures - Enhanced Edition: A Comprehensive Approach, 7e (Anatomy of Orofacial Structures (Brand)) Anatomy of Orofacial Structures, 7e (Anatomy of Orofacial Structures (Brand)) Java Software Structures: Designing and Using Data Structures (4th Edition) Seismic Design of Building Structures: A Professional's Introduction to Earthquake Forces and Design Details, 8th ed. Seismic Design of Building Structures: A Professionals Introduction to Earthquake Forces and Design Details Einstein's Dice and Schrödinger's Cat: How Two Great Minds Battled Quantum Randomness to Create a Unified Theory of Physics

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)