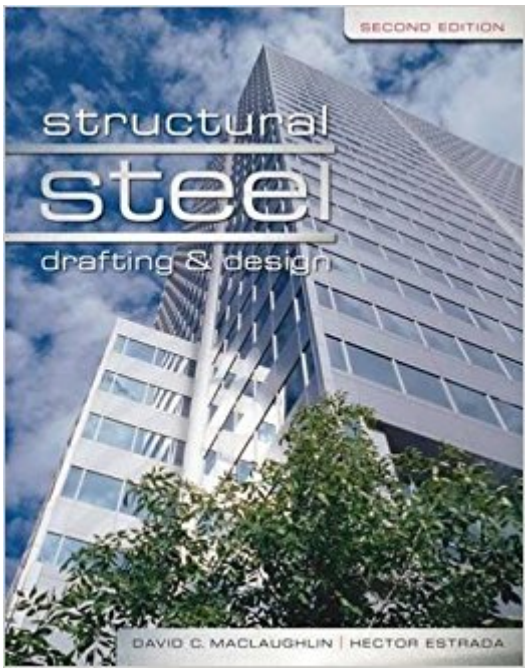
Structural Steel Drafting And Design



Synopsis

Practical and easy to use, this text lays a solid groundwork for beginning and intermediate students to pursue careers in architecture, construction, or civil engineering. The text clarifies the vital interdependence between structural steel design and fabrication drawings, equipping students to work flexibly with both. First and foremost a drafting book, Structural Steel Drafting and Design gives an overview of structural design theory while providing numerous examples, illustrations, and real-world assignments. Students also become acquainted with critical tables and reference material from industry-standard sources, as well as the merits of Load and Resistance Factor Design and Allowable Strength Design.

Book Information

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Customer Reviews

Structural Steel Design Drawing For Steel Construction Steel: An Economical Choice For Commercial And Industrial Buildings: Introduction, Steel Frame Construction, The Economy Of Steel Frame Construction, Load Resistance Factor Design, Summary, Study Questions. An Introduction To The World Of Structural Steel: Introduction, Steel As A Structural Material, Common Structural Steel Rolled Shapes, The Manual Of Steel Construction, Open-Web Steel Joists, Steel Joist Institute Load Tables, Summary, Study Questions. The Structural Drafter In The Structural Engineering Design Or Fabricator"s Office: Introduction, Structural Engineering, Desirable Characteristics Of The Structural Drafter, Engineering Office Organization, Summary, Study Questions. Reading Architectural Drawings For Steel-Framed Buildings: Introduction, Architectural

Materials And Symbols, Architectural Floor Plans, Exterior Elevations, Building Sections, Architectural Wall Sections And Details, Summary, Study Questions. An Overview Of Basic Structural Steel Design Calculations: Introduction, Basic Structural Design Considerations And Terminology, The Design And Selection Of Open-Web Steel Joists, The Design And Selection Of W-Shape (Wide Flange) Beams And Girders, The Design Of Beam Bearing Plates, The Design Of Steel Columns, The Design Of Column Baseplates, Summary, Study Questions. The Preparation Of Structural Steel Design Drawings And Details: Introduction, The Basic Objectives Of Structural Design, The Structural Steel Grid System, Structural Steel Sections, Structural Steel Details, Summary, Study Questions. Structural Steel Sections And Details For Commercial And Industrial Buildings : Structural Steel Fabrication Drawings For Steel Construction The Structural Designer/Fabricator Relationship, An Introduction To Structural Steel Shop Drafting, Column Detailing, Structural Connections, Beam Detailing, Anchor Rods and Anchor Rod Plans, The Steel Erection Plan, The Field Bolt List, An Introduction To Non-Rectangular Framing, Cad In Structural Drafting.

David MacLaughlin is retired from the Chippewa Valley Technical College (25 years) as head of the construction engineering department.Dr. Hector Estrada is currently professor and chair of the Department of Civil Engineering at the University of the Pacific. He has published on structural engineering and engineering education in various peer-reviewed journals, conference proceedings, and presented research work at various technical conferences. He has served as reviewer for a number of journals (including the ASCE Journal of Structural Engineering and ASCE Journal of Engineering Mechanics), conferences, book publishers, and funding agencies. His past and current service includes membership in several national ASCE and ASME committees.

I got it for school and it was very informative and easy to read. The figures were clear and very well done, but there were so many of them on different pages from the page they were referenced from it was hard to really get anything out of them. The questions provided at the end of each chapter served as a good review.

Item is as described and arrived faster than expected.

my son said this book was excellent book

very informative!!!!!!!!!!

This is a well thought out, carefully organized and well documented introduction to structural steel drafting. I am in a related industry and bought the book to further acquaint myself with the subject. I feel that I certainly got my money's worth, and congratulate the author on his conscientious and thoughtful presentation.

bought for a class

I have been a Steel Detailer for 14 years. I found the book interesting and well thought out. The book is split into two sections. The first is for the Structural Design shop and the second for the Detailing shop. What the author covers, he covers in a thorough manner. I would like to have seen a section on horizontal and vertical bracing, which was not even mentioned in the book. Many of the authors example detail drawings left out some information which the shop might find helpful. For instance, stantard hole size for the drawing or the distance from the end of a clip angle to the end of the cut member. The author states that because there is an "industry standard" that this information does not have to be shown. He explains that 13/16 holes are the standard size, and so no notation is required on a drawing if 13/16 holes are used. It has been my experience that this information may be "industry standard," but the shops I have draw for all require it on the detail drawings. Trying to use this book to train a new detailer is a challenge. The drafting standard used to create the examples in the detailing section may be "industry standard," but it does not quite meet my standard. It is an OK book, but not perfect.

For experienced steel detailer. This book is not useful. But for a beginner, you can expect to learn your job in overall scale. It tells a little bit of everything, There is NO details in symbolic, how to start the first line of drawing, what are need to be put in the drawing and shop detailed.

Design (6th Edition) Drafting House Plans: A Whole House System for Planning and Design (A Simplified Design System) Advanced High Strength Steel and Press Hardening: Proceedings of the 3rd International Conference on Advanced High Strength Steel and Press Hardening - Ichsu 2016 Fretboard Roadmaps - Lap Steel Guitar: The Essential Patterns That All Great Steel Players Know and Use Steel: The Story of Pittsburgh's Iron and Steel Industry, 1852-1902 Coming Out (Danielle Steel) (Danielle Steel) Steel & Stone Companion Collection (Steel & Stone Book 6) Structural Dynamics of Earthquake Engineering: Theory and Application Using Mathematica and Matlab (Woodhead Publishing Series in Civil and Structural Engineering) Strengthening of Reinforced Concrete Structures: Using Externally-Bonded Frp Composites in Structural and Civil Engineering (Woodhead Publishing Series in Civil and Structural Engineering) 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) Structural Analysis and Synthesis: A Laboratory Course in Structural Geology Structural Analysis and Synthesis: A Laboratory Course in Structural Geology 3rd (third) edition by Rowland, Stehen M., Duebendorfer, Ernest M., Schiefelbein, I published by Wiley-Blackwell (2007) [Spiral-bound]