



Applied Structural Steel Design (4th Edition)

By Leonard Spiegel, George F. Limbrunner

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Written specifically for the engineering technology/technician level, this book offers a straight-forward, elementary, noncalculus, practical problem-solving approach to the design, analysis, and detailing of structural steel members. Using numerous example problems and a step-by-step solution format, it focuses on the classical and traditional ASD (Allowable Stress Design) method of structural steel design (the method still most used today) and introduces the LRFD (Load and Resistance Factor Design) method (fast-becoming the method of choice for the future). Introduction to Steel Structures. Tension Members. Axially Loaded Compression Members. Beams. Special Beams. Beam-Columns. Bolted Connections. Welded Connections. Open Web Steel Joists and Metal Deck. Continuous Construction and Plastic Design. Structural Steel Detailing: Beams. Structural Steel Detailing: Columns. LRFD: Structural Members. LRFD: Connections. For technicians, technologists, engineers, and architects preparing for state licensing examinations for professional registration.

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Editorial Review

Review

"The chapters on steel detailing and open web steel joists provide more in-depth coverage to these topics than is normally found in such works." - Thomas M. Burns, Cincinnati State Technical and Community College "The text can be easily read and understood. It is presented clearly and spaciously." - John Buttlerwerth, Cincinnati State Technical Community College

From the Publisher

While the objective of this Third Edition remains the same as its predecessors--to furnish readers with a basic understanding of the strength and behavior of structural steel members and their interrelationships in simple structural systems --the text has been both updated and improved for today's audience.

From the Back Cover

Applied Structural Steel Design, Fourth Edition, continues to serve readers with a basic understanding of the strength and behavior of structural steel members and their interrelationships in simple structural systems. By providing content that is primarily an elementary, noncalculus, practical approach to the design and analysis of structural steel members, using numerous example problems and a step-by-step solution format, this text has remained true to its reader-friendly tradition. This edition, however, is a transitional text that bridges two methods of design that are currently being used: Load and Resistance Factor Design (LRFD) and Allowable Stress Design (ASD). Most engineering professionals agree that LRFD will become the dominant method in the future. However, since the traditional ASD method remains popular and practical and is still widely used, this text uses the traditional method while devoting entire chapters to the LRFD method.

Key features of this edition:

- The use of a dual system of units: the customary American system as well as the SI system
- Expanded coverage of plastic design
- The use of "spreadsheet" homework problems throughout the book

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