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LRFD Manual of Steel Construction - Third Edition



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Product Description

This is the second printing of the Manual and includes all technical revisions and corrections.

This Manual is condensed back into a single volume with all member and connection design information in one book that's still thumb-cut for easy reference.

[Read the Modern Steel Construction Article](#) about the new LRFD Manual (66KB PDF).

It has been reorganized and reformatted to provide practical and efficient access to the information you need to design and construct structural steel buildings. Roadmaps take you quickly to applicable specifications, codes and standards, as well as the applicable provisions in those standards.

All current structural shapes are covered, including the old standard gages, the new T , k and k_1 values for W-shapes and the 0.93 wall thickness reduction factor for HSS.

Guidance is provided on the new OSHA safety regulations, stability bracing requirements and proper material specification.

New information is provided on design drawing information requirements, criteria needed for connection design, mill, fabrication and erection tolerances, facade issues, temperature effects and fire protection requirements with summaries of common UL assemblies.

Also included in the Third Edition:

- AISC Shapes Database V3.1 CD
- 1999 LRFD Specification for Structural Steel Buildings
- 2000 LRFD Specification for Steel Hollow Structural Sections
- 2000 LRFD Specification for Single-Angle Members
- 2000 RCSC Specification for Structural Joints Using ASTM A325 or A490 Bolts
- 2000 Code of Standard Practice for Steel Buildings and Bridges
- Shape information updated to current series
- Coverage of round HSS added
- Dimensions and properties for double channels back-to-back added
- Tables of surface and box perimeter, weight/area to perimeter ratios and surface areas expanded to cover all common shapes
- Roadmaps to applicable codes and standards for structural steel design
- New section on properly specifying materials, including shapes, plates, fasteners and other products
- New information on corrosion protection and seismic design
- New section with design aids for tension members, including explicit consideration of net section requirements to ensure connectable member selection
- New beam selection tables based on I_x , Z_x , I_y and Z_y
- New ΦM_n vs. L_b plots for channels
- New Floor Plate design aids
- Additional beam diagrams and formulas
- New design aid for beam-columns that covers all W-shapes and provides quicker designs
- New bolt length selection tables
- Updated entering and tightening clearances for bolts
- Welding information, including prequalified welded joint tables, updated to AWS D1.1-2000
- Updated information on prying action and Whitmore Section
- Updated information on strength of coped beams
- Selection tables for single-plate connections now include 12 rows of bolts and 1 1/8-in diameter bolts
- New information and examples for flexible moment connections (an update of Disque's "wind" connection approach)
- Relaxed limitations on the use of moment end-plate connections
- Updated information on the design of anchor rods
- New table of dimensions of common washers for use with anchor rods
- Composite tables now for 4 and 5 ksi concrete
- U.S. customary/Metric shapes series cross-reference

AISC is currently selling the second printing of the Manual of Steel Construction. Technical revisions and corrections have been made in the second printing of the Third Edition (January, 2003). To facilitate the incorporation of revisions and corrections, a booklet has been constructed using excerpts from revised pages, with corrections noted. This booklet is available by clicking [HERE](#).

Related Product(s)

[Code of Standard Practice for Steel Buildings and Bridges, March 18, 2005](#)

[Specification for the Design of Steel Hollow Structural Sections, November 10, 2000](#)

[Specification for Structural Joints Using ASTM A325 or A490 Bolts, June 23, 2000](#)

[Load and Resistance Factor Design \(LRFD\) Specification for Structural Steel Buildings, December 27, 1999](#)

[Load and Resistance Factor Design Specification for Single-Angle Members, November 10, 2000](#)

[AISC Shapes Database Versions 3.1 and 3.1H - U.S. and Metric units](#)

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