



Steel Structures Design: ASD/LRFD

Alan Williams

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A COMPLETE GUIDE TO THE DESIGN OF STEEL STRUCTURES

Steel Structures Design: ASD/LRFD introduces the theoretical background and fundamental basis of steel design and covers the detailed design of members and their connections. This in-depth resource provides clear interpretations of the American Institute of Steel Construction (AISC) *Specification for Structural Steel Buildings*, 2010 edition, the American Society of Civil Engineers (ASCE) *Minimum Design Loads for Buildings and Other Structures*, 2010 edition, and the International Code Council (ICC) *International Building Code*, 2012 edition. The code requirements are illustrated with 170 design examples, including concise, step-by-step solutions.

Coverage includes:

- Steel buildings and design criteria
- Design loads
- Behavior of steel structures under design loads
- Design of steel structures under design loads
- Design of steel beams in flexure
- Design of steel beams for shear and torsion
- Design of compression members
- Stability of frames
- Design by inelastic analysis
- Design of tension members
- Design of bolted and welded connections
- Plate girders
- Composite construction

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