



Design of Steel Structures

Edwin H. Gaylord, Charles N. Gaylord, James E. Stallmeyer

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This text can be used for courses in steel structures and steel design at the senior/first year graduate level. The book teaches students how to design steel structures and their connections, with primary respect to bridges and buildings. 32 design problems portray structural members as components of real-world structures rather than as isolated elements and help students to prepare flow diagrams and computer programs. There is a discussion of the design calculations for the truss spans and composite-beam approach spans of a highway bridge in Maryland. The authors discuss both the theoretical treatment of every topic along with the important applications and specifications, including the AISC, the AASHTO, and the AREA specifications. The text covers both the Allowable Stress Design (ASD) and the Load and Resistance Factor Design (LRFD) procedures. The procedures are covered separately so that one may be skipped if desired. A solutions manual is available.

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