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(Margie Jaskolski)

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Cengage Learning, 2015. Softcover. Book Condition: New. 5th or later edition. Steel Design covers the fundamentals of structural steel design with an emphasis on the design of members and their connections, rather than the integrated design of buildings. The book is designed so that instructors can easily teach LRFD, ASD, or both, time-permitting. The application of fundamental principles is encouraged for design procedures as well as for practical design, but a theoretical approach is also provided to enhance student development. While the book is intended for junior-and senior-level engineering students, some of the later chapters can be used in graduate courses and practicing engineers will find this text to be an essential reference tool for reviewing current practices. Features Designed so that instructors can easily teach either LRFD or ASD, or both with most examples incorporating both LRFD and ASD solutions. Assigned problems are given at the end of each chapter, providing practice with both approaches and where appropriate, the required approach is specified in the statement of the problem. Answers to selected problems are given at the back of the book. Although this book is oriented toward practical design, sufficient theory is included to avoid a `cookbook` approach. Content has been updated to conform to the newest AISC Specification and Steel Construction Manual. Provides a detailed description of the reorganization of the Specification and Steel Construction Manual. Includes a new discussion on frame analysis methods. Modified beam design examples. Expanded material on the moment amplification method. New material on shear strength of bolts, incorporating the new strength values given in the specification, as well as the new AISC equation for slip-critical bolt strength. A new emphasis on the use of the lower-bound moment of inertia in computing deflections. Majority of problems have been revised from the previous edition. Table...

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