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This new edition of the Manual includes the 2016 Specification for Structural Steel Buildings, with improvements and revisions in the provisions for slender-element compression members, shear strength and double angle and WT flexural strength, as well as the 2016 Code of Standard Practice, which clarifies the use of models, and new and enhanced Architecturally Exposed Structural Steel (AESS) standards. "AISC is aware of the difficulty experienced by the structural engineering profession ...

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The AISC Committee on Specifications and the American Iron and Steel Institute (AISI) formed a joint Committee on Terminology to standardize common terminology used in the design of steel structures. A copy of the most current Committee on Terminology report is available for download here:

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This Manual is the thirteenth major update of the AISC Steel Construction Manual, which was first published in 1927. With this revision, the previously separate Allowable Stress Design and Load and Resistance Factor Design methods have been combined. Thus, this Manual replaces both the 9th Edition ASD Manual and the 3rd Edition LRFD Manual.

Originally published in 1926 [i.e. 1927]
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ed.: Manual of steel construction.

Geschwindner's 2nd edition of Unified Design of Steel Structures provides an understanding that structural analysis and design are two integrated processes as well as the necessary skills and knowledge in investigating, designing, and detailing steel

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structures utilizing the latest design methods according to the AISC Code. The goal is to prepare readers to work in design offices as designers and in the field as inspectors. This new edition is compatible with the 2011 AISC code as well as marginal references to the AISC manual for design examples and illustrations, which was seen as a real advantage by the survey respondents.

Furthermore, new sections have been added on: Direct Analysis, Torsional and flexural-torsional buckling of columns, Filled HSS columns, and Composite column interaction. More real-world examples are included in

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addition to new use of three-dimensional illustrations in the book and in the image gallery; an increased number of homework problems; and media approach Solutions Manual, Image Gallery.

Includes bibliographical references and index.

This book is intended for classroom teaching

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in architectural and civil engineering at the graduate and undergraduate levels. Although it has been developed from lecture notes given in structural steel design, it can be useful to practicing engineers. Many of the examples presented in this book are drawn from the field of design of structures.

Design of Steel Structures can be used for one or two semesters of three hours each on the undergraduate level. For a two-semester curriculum, Chapters 1 through 8 can be used during the first semester. Heavy emphasis should be placed on Chapters 1 through 5, giving the student a brief exposure to the

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consideration of wind and earthquakes in the design of buildings. With the new federal requirements vis a vis wind and earthquake hazards, it is beneficial to the student to have some understanding of the underlying concepts in this field. In addition to the class lectures, the instructor should require the student to submit a term project that includes the complete structural design of a multi-story building using standard design procedures as specified by AISC Specifications. Thus, the use of the AISC Steel Construction Manual is a must in teaching this course. In the second semester,

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Chapters 9 through 13 should be covered. At the undergraduate level, Chapters 11 through 13 should be used on a limited basis, leaving the student more time to concentrate on composite construction and built-up girders.

An introductory textbook for teaching structural steel design to civil and structural engineering students.

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