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D 2. Project: Engineer:

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The procedures are
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LRFD procedures of the American Institute of Steel Construction, as presented in the Load and Resistance Factor Design Manual of Steel Construction (AISC 1986a). With minor modifications, the procedures may also be used with Allowable Stress Design techniques (see section 3.8).

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I I This book is intended to guide practicing structural engineers into more profitable routine designs with the AISC Load and Resistance

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Factor Design
Specification (LRFD)
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buildings. LRFD is a method of proportioning steel structures so that no applicable limit state is exceeded when the structure is subjected to all appropriate factored load combinations.

Strength limit states are related to safety, and concern maximum load

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carrying capacity,

Serviceability limit states are related to performance under service load conditions such as deflections. The term "resistance" includes both strength states and serviceability limit states. LRFD is a new approach to the design of structural steel for buildings. It involves explicit consideration of

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limit states, multiple load factors and resistance factors, and implicit probabilistic determination of reliability. The type of factoring used by LRFD differs from the allowable stress design of Chapters A through M of the 1989 Ninth Edition of the AISC Specifications for Allowable Stress

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Design, where only the resistance is divided by a factor of safety to obtain an allowable stress, and from the plastic design provisions of Chapter N, where the loads are multiplied by a common load factor of 1.7 for gravity loads and 1.3 for gravity loads acting with wind or seismic loads. LRFD offers the structural

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engineer greater
flexibility, rationality,
and economy than the
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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
structures utilizing the
latest design methods

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advantage by the
survey respondents.

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sections have been
added on:

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columns, Filled HSS
columns, and Composite
column interaction.

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examples are included

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AISC developed Design
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set clear expectations
and provide practical

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Design information for the steel industry related to the framing around stairways and the structural support of stairs themselves. The guide provides information related to the design and layout of steel elements for steel-framed stairways, guards, handrails and related components.

Background information

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regarding stairways, code requirements, and design methods is presented, and complete design examples are also included. You can read more about the contents of Design Guide 34 in the December 2018 Modern Steel Construction article "Stepping Up" at www.modernsteel.com.

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Structural Steel Design to Eurocode 3 and AISC Specifications deals with the theory and practical applications of structural steel design in Europe and the USA. The book covers appropriate theoretical and background information, followed by a more design-oriented coverage focusing on

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environments, engineers are more and more likely to encounter both codes. Written for design engineers and students of civil and structural engineering, this book will help both groups to become conversant with both code systems.

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This book is intended for classroom teaching 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

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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

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through 5, giving the student a brief exposure to the 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

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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

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semester, 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.

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