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Chapter 6 on flexural members includes a discussion of the shape factor and its significance. The use of Manual Table 3-10, the beam curves, with C_b not equal to 1.0, is expanded and a new example is included to illustrate the use of Manual Table 3-2, the economy tables, for noncompact beams.

Unified Design of Steel Structures, 3 Edition

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This book provides a detailed introduction to the design of steel structural members and their connections, with emphasis on their use in bridges and buildings. A discussion is provided of the theory and behaviour of such members under various combinations of loads. This is followed by a discussion of applications according to standard specifications for load-and-resistance factor design, and ...

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where appropriate, are in compliance with the following Parts of Eurocode 3 Design of steel structures: EN 1993-1-1 Design of steel structures: General rules and rules for buildings EN 1993-1-2 Design of steel structures: Structural fire design EN 1993-1-3 Design of steel structures: General rules: Supplementary rules for

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Based on the understanding that the strength of an element or structure can be determined independently of the design philosophy, the 2005 unified ANSI/AISC 360-05 Specification for Structural Steel Buildings successfully brought together the two divergent approaches to the design of steel structures, the ASD and the LRFD.

Unified Design of Steel Structures 3rd edition ...

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At the end of year 2005, new AISC Specification was released that contained formulas for both Allowable Stress Design and Load and Resistance Factor Design in non-dimensional format to be used for both the FPS and SI units. In year 2010, this specification for steel structures design and the seismic provisions were updated. This book is prepared in the light of the new Specifications.

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