



Guide to Stability Design Criteria for Metal Structures

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The definitive guide to stability design criteria, fully updated and incorporating current research

Representing nearly fifty years of cooperation between Wiley and the Structural Stability Research Council, the *Guide to Stability Design Criteria for Metal Structures* is often described as an invaluable reference for practicing structural engineers and researchers. For generations of engineers and architects, the Guide has served as the definitive work on designing steel and aluminum structures for stability. Under the editorship of Ronald Ziemian and written by SSRC task group members who are leading experts in structural stability theory and research, this *Sixth Edition* brings this foundational work in line with current practice and research.

The *Sixth Edition* incorporates a decade of progress in the field since the previous edition, with new features including:

- **Updated chapters** on beams, beam-columns, bracing, plates, box girders, and curved girders. Significantly revised chapters on columns, plates, composite columns and structural systems, frame stability, and arches
- **Fully rewritten chapters** on thin-walled (cold-formed) metal structural members, stability under seismic loading, and stability analysis by finite element methods
- **State-of-the-art coverage** of many topics such as shear walls, concrete filled tubes, direct strength member design method, behavior of arches, direct analysis method, structural integrity and disproportionate collapse resistance, and inelastic seismic performance and design recommendations for various moment-resistant and braced steel frames

Complete with over 350 illustrations, plus references and technical memoranda, the *Guide to Stability Design Criteria for Metal Structures, Sixth Edition* offers detailed guidance and background on design specifications, codes, and standards worldwide.

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