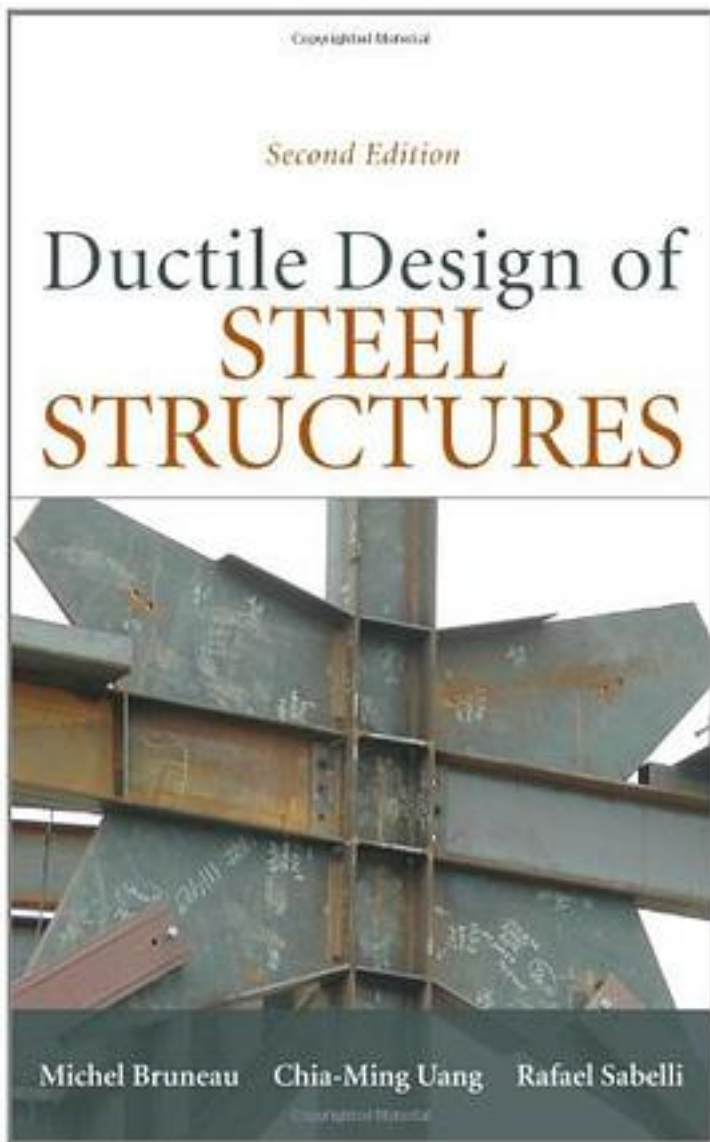


Ductile Design of Steel Structures, 2nd Edition



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A completely revised and updated in-depth guide to the requirements central to earthquake-resistant design of steel structures. Ductile Design of Steel Structures, Second Edition promotes and presents the fundamental principles behind the design of ductile steel structures. It has been updated to reflect the design provisions for two new structural systems--buckling restrained braced frames and steel plate shear walls--introduced in the Canadian Standard for the Design of Steel Structures. The book also reflects the changes to the AISC and CSA design provisions. Although steel remains the most ductile of the modern structural engineering materials, research demonstrates that special care is necessary to ensure ductile structural behavior, even when structural stability is not a concern. This book fully addresses the requirements for earthquake-resistant design of steel structures. New to the Second Edition: The addition of renowned structural engineer Rafael Sabelli to the author team. Four new chapters--buckling restrained braced frames; steel plate shear walls; broader hysteretic energy dissipating systems; blast-resistant and progressive-collapse-resistant design. Expanded and completely revised chapters on concentrically braced frames and eccentrically braced frames. Updates to reflect the AISC (American Institute for Steel Construction) and CSA (Canadian Standards Association) design requirements. Self-study problems at the end of each chapter. Detailed coverage: Introduction; Structural Steel; Plastic Behavior at the Cross-Section Level; Concepts of Plastic Analysis; Systematic Methods of Plastic Analysis Applications of Plastic Analysis; Design of Ductile Concentrically Braced Frames; Design of Ductile Eccentrically Braced Frames; Design of Ductile Moment-Resisting Frames; Design of Ductile Buckling-Restrained Braced Frames; Design of Ductile Steel Plate Shear Walls; Other Ductile Steel Energy Dissipating Systems; Limit State Philosophy in Seismic Design Provisions; Blast-Resistant (Collapse-Resistant) Design of Ductile Steel Structures; Stability and Rotation Capacity of Steel Beams; Partial Solutions to Self-Study Problems

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