



Ductile Design of Steel Structures, 2nd Edition (P/L Custom Scoring Survey)

By Michel Bruneau, Chia-Ming Uang, S.E., Rafael Sabelli



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Comprehensive coverage of the background and design requirements for plastic and seismic design of steel structures

Thoroughly revised throughout, *Ductile Design of Steel Structures*, Second Edition, reflects the latest plastic and seismic design provisions and standards from the American Institute of Steel Construction (AISC) and the Canadian Standard Association (CSA). The book covers steel material, cross-section, component, and system response for applications in plastic and seismic design, and provides practical guidance on how to incorporate these principles into structural design.

Three new chapters address buckling-restrained braced frame design, steel plate shear wall design, and hysteretic energy dissipating systems and design strategies. Eight other chapters have been extensively revised and expanded, including a chapter presenting the basic seismic design philosophy to determine seismic loads. Self-study problems at the end of each chapter help reinforce the concepts presented. Written by experts in earthquake-resistant design who are active in the development of seismic guidelines, this is an invaluable resource for students and professionals involved in earthquake engineering or other areas related to the analysis and design of steel structures.

COVERAGE INCLUDES:

- Structural steel properties
- Plastic behavior at the cross-section level
- Concepts, methods, and applications of plastic analysis
- Building code seismic design philosophy
- Design of moment-resisting frames
- Design of concentrically braced frames
- Design of eccentrically braced frames
- Design of steel energy dissipating systems
- Stability and rotation capacity of steel beams

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Editorial Review

About the Author

Michel Bruneau, P.E., P.Eng., is Professor in the Department of Civil, Structural, and Environmental Engineering at the State University of New York at Buffalo, and an ASCE Fellow. He is a member of various AISC and CSA committees developing seismic design specifications for bridges and buildings. Dr. Bruneau has conducted extensive research on the evaluation and retrofit of existing steel structures subjected to large destructive forces. He has authored more than 400 technical publications and has received many awards for his work.

Chia-Ming Uang, Ph.D., is Professor in the Department of Structural Engineering at the University of California, San Diego. A member of the AISC's Committee on Specification and Committee on Research, he received the AISC Special Achievement Award in 2007. Dr. Uang has authored numerous articles on seismic behavior and design of steel structures.

Rafael Sabelli, S.E., is a Principal and Director of Seismic Design at Walter P. Moore and Associates, Inc., and was President of the Structural Engineers Association of California from 2009 to 2010. He is a member of the AISC Task Committee on the Seismic Provisions for Structural Steel Buildings and the ASCE 7 Seismic Subcommittee. Mr. Sabelli is the coauthor of AISC Design Guide 20: Steel Plate Shear Walls as well as of numerous research papers on conventional and buckling-restrained braced frames.

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