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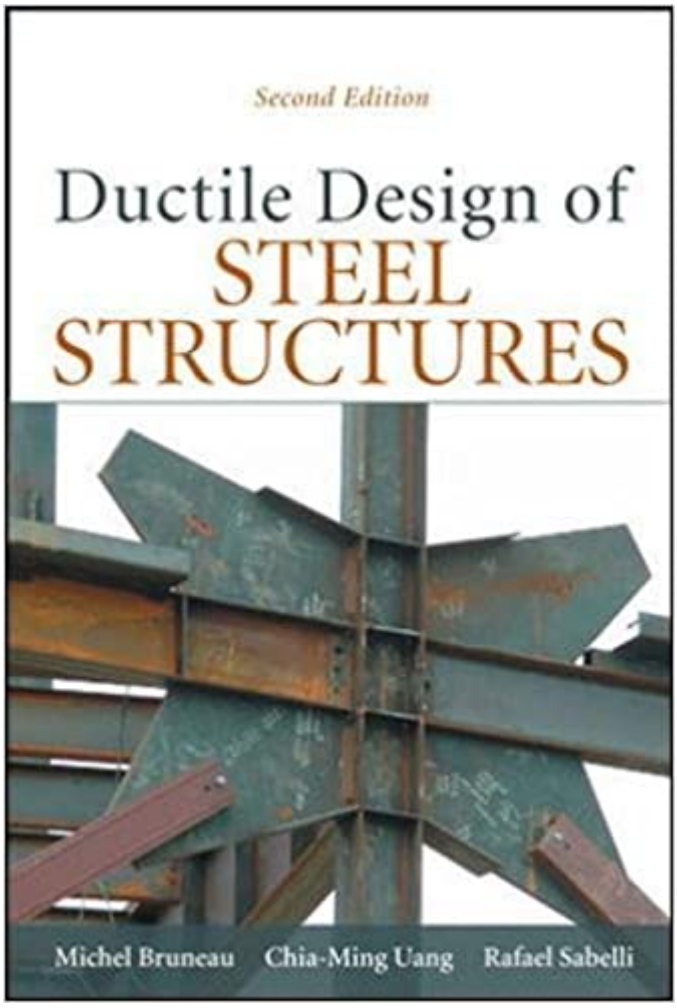
Ductile Design Of Steel Structures, 2nd Edition (P/L Custom Scoring Survey)



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Synopsis

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

Book Information

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Customer Reviews

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 AISCÃ¢â ¬â„¢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.

This text was extremely useful in a seismic design course I took. By blending a review of current research efforts with clear design procedures, Prof Bruneau and his co-authors provide an engineering textbook different than many others. It’s more than a how-to; it’s more of a here’s-why.The book offers aspiring and practicing engineers a thorough explanation of different frame options and understanding of their behavior. It then demonstrates how best to design each particular type of frame including design examples. At the same time, the authors make clear that there is still research to be done to better understand the behavior of steel structures under earthquake loads.I suspect this is one of those textbooks that I will reference for years to come.

Well written book overall. The material is very clear. The only noticeable downfall so far is that the writing stile is not particularly concise and is filled with long run-on sentences at times.

This book was sold as a brand new book. When it arrived, the cover was completely torn off the spine.. I returned it immediately. This is quite poor

A must have for all engineers, researchers, and students interested in developing solid background in plastic design and seismic design of steel structures. Also a great reference book. Emphasis on behavior and understanding, which is they key to a great career in structural engineering.

Excellent reference for steel design. It has historic background about every structural sistem. The topics include: frames, braced frames: concentrically and excentrically braced and other systems.

Excellent book in advanced design topics of steel, recommended after taking one or two courses on basic steel design.

What can you say, useful source of design information and especially like the digital version

Great book.

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