

# Design of Seismic-Resistant Steel Building Structures

## *1. Introduction and Basic Principles*

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# Seismic Resistant Steel Structures

**Michel Bruneau (Ph.D), Chia-Ming  
Uang, Andrew Stuart Whittaker**



## Seismic Resistant Steel Structures:

**Seismic Resistant Steel Structures** Federico M. Mazzolani, Victor Gioncu, 2014-05-04 The catastrophic earthquakes of the last decades Mexico City 1985 Loma Prieta 1989 Northridge 1994 Kobe 1995 have seriously undermined their reputation of steel structures which in the past represented the most suitable solution for seismic resistant structures Even if in very few cases the performance of steel joints and members was unexpectedly bad showing that it was due to some lacks in the current design concept As a consequence of the lessons learned from the above dramatic events many progress has been recently achieved in the conception design and construction by introducing the new deals of the performance based design including the differentiation of earthquaketypes and considering all factor influencing the steel structure behaviour under strong ground motions In this scenario the aim of the book is to transfer the most recent achievements into practical rules for a safe design of seismic resistant steel structures The seven Chapters cover the basic principles and design criteria for seismic resistant steel structures which are applied to the main structural typologies like moment resistant frames braced frames and composite structures with particular reference to connections and details Ductility of Seismic-Resistant Steel Structures Victor Gioncu, Federico Mazzolani, 2003-09-02 This book is a state of the art report on the ductility of steel structures containing a comprehensive review of the technical literature available and presenting the results of the authors own extensive research activities in this area Analytical and numerical methods are described and a wealth of practical information is provided Ductility Theory and Design of Seismic Resistant Steel Frames Federico Mazzolani, Vincenzo Piluso, 1996-05-09 A state of the art summary of recent developments in the behaviour analysis and design of seismic resistant steel frames Much more than a simple background volume it gives the most recent results which can be used in the near future to improve the codified recommendations for steel structures in seismic zones It contains new material which cannot be found in any standard reference book on seismic engineering *Seismic Design of Steel Structures* Victor Gioncu, Federico Mazzolani, 2013-11-20 Providing real world applications for different structural types and seismic characteristics *Seismic Design of Steel Structures* combines knowledge of seismic behavior of steel structures with the principles of earthquake engineering This book focuses on seismic design and concentrates specifically on seismic resistant steel structures Drawing on experience from the Northridge to the Tohoku earthquakes it combines understanding of the seismic behavior of steel structures with the principles of earthquake engineering The book focuses on the global as well as local behavior of steel structures and their effective seismic resistant design It recognises different types of earthquakes takes into account the especial danger of fire after earthquake and proposes new bracing and connecting systems for new seismic resistant steel structures and also for upgrading existing reinforced concrete structures Includes the results of the extensive use of the DUCTROCT M computer program which is used for the evaluation of the seismic available ductility both monotonic and cyclic for different types of earthquakes Demonstrates good design principles by highlighting the behavior of

seismic resistant steel structures in many applications from around the world Provides a methodological approach making a clear distinction between strong and low to moderate seismic regions This book serves as a reference for structural engineers involved in seismic design as well as researchers and graduate students of seismic structural analysis and design

**STESSA 2003 - Behaviour of Steel Structures in Seismic Areas** Federico Mazzolani,2018-03-29 Presenting a comprehensive overview of recent developments in the field of seismic resistant steel structures this volume reports upon the latest progress in theoretical and experimental research into the area and groups findings in the following key sections performance based design of structures structural integrity under exceptional loading material and member behaviour connections global behaviour moment resisting frames passive and active control strengthening and repairing codification design and application Ductile Design of Steel Structures Michel Bruneau (Ph.D),Chia-Ming Uang,Andrew Stuart

Whittaker,1998 Ensure ductile behavior in any steel structure Engineer earthquake resistant structures using today s most advanced ductile steel design techniques This guide gives you the latest seismic resistant design criteria based on research into the recent Northridge and Kobe earthquakes You get fingertip access to the ductile properties of steel essential data on the plastic behavior of cross sections and systematic methods and applications of plastic analysis This time saving resource walks you through the seismic design of ductile braced frames and moment resisting frames provides the special detailing requirements needed to ensure satisfactory plastic behavior gives you an overview of special steel based energy dissipation systems and much more *Ductility of Seismic-Resistant Steel Structures* Victor Gioncu,Federico Mazzolani,2003-09-02

This book is a state of the art report on the ductility of steel structures containing a comprehensive review of the technical literature available and presenting the results of the authors own extensive research activities in this area Analytical and numerical methods are described and a wealth of practical information is provided Ductility of Seismic Resistant Steel Structures will be of great use to advanced students researchers designers and professionals in the field of civil structural and earthquake engineering **Behaviour of Steel Structures in Seismic Areas** Federico Mazzolani,Ricardo

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Performance-based Plastic Design Subhash Chandra Goel,Shih-Ho Chao,2008-01-01 Theory and Design of Seismic Resistant Steel Frames Federico Mazzolani,Vincenzo Piluso,2012-09-10 A state of the art summary of recent developments in the behaviour analysis and design of seismic resistant steel frames Much more than a simple background volume it gives the most recent results which can be used in the near future to improve the codified recommendations for steel structures in seismic zones It contains new material which cann

**STESSA 2000: Behaviour of Steel Structures in Seismic Areas** Federico Mazzolani,Robert Tremblay,2021-07-28 This is a review of developments in the behaviour and design of steel

structures in seismic areas The proceedings look at the analytical and experimental research on the seismic response of steel structures and cover topics such as global behaviour and codification design and application *Earthquake Resistant Steel Structures*, 2010 This document aims to present in a straightforward manner the essentials of seismic design of steel structures which is a field of engineering and construction to which AcelorMittal contributes by continuous research efforts that bring better steel products and original design solutions to the market These include the widely used Reduced Beam Section concept RBS or dog bone for moment resisting frames Section 10 INERD dissipative connections for braced frames Section 12 and the use of composite columns to mitigate soft storey failures in reinforced concrete structures Section 18

*Seismic Design of Steel Structures* Victor Gioncu, Federico Mazzolani, 2013-11-20 Providing real world applications for different structural types and seismic characteristics Seismic Design of Steel Structures combines knowledge of seismic behavior of steel structures with the principles of earthquake engineering This book focuses on seismic design and concentrates specifically on seismic resistant steel structures Drawing on **Behaviour of Steel Structures in Seismic Areas** Federico Mazzolani, Victor Gioncu, 1995-10-12 This book forms the proceedings of the International Workshop organised by the European Convention for Constructional Steelwork held in Timisoara Romania in June 1994 It presents the latest progress in theoretical and experimental research on the behaviour of steel structures in seismic areas taking into account the basic problems of local and global ductility codification design and applications It relates strongly to the activities on international codification taking place in Europe *Design of Steel Structures for Buildings in Seismic Areas* ECCS - European Convention for Constructional Steelwork, Associação Portuguesa de Construção, 2018-01-03 This volume elucidates the design criteria and principles for steel structures under seismic loads according to Eurocode 8 1 Worked Examples illustrate the application of the design rules Two case studies serve as best practice samples **STESSA 2003 - Behaviour of Steel Structures in Seismic Areas** Federico Mazzolani, 2018-03-29 Presenting a comprehensive overview of recent developments in the field of seismic resistant steel structures this volume reports upon the latest progress in theoretical and experimental research into the area and groups findings in the following key sections performance based design of structures structural integrity under exceptional loading material and member behaviour connections global behaviour moment resisting frames passive and active control strengthening and repairing codification design and application *Behaviour of Steel Structures in Seismic Areas* Federico M. Mazzolani, James M. Ricles, Richard Sause, 2009 BEHAVIOUR OF STEEL STRUCTURES IN SEISMIC AREAS is a comprehensive overview of recent developments in the field of seismic resistant steel structures It comprises a collection of papers presented at the sixth International Specialty Conference STESSA 2009 held in Philadelphia Pennsylvania USA in August 2009 The latest progress in both theoretical and experimental research on the behaviour of steel structures in seismic areas is presented under the followings themes Performance Based Design of Structures Seismic Wind and Exceptional Load Material Behaviour Member Behaviour

Connection Behaviour Global Behaviour Analytical and Experimental Methods Mixed and Composite Structures Passive and Active Control Strengthening and Repairing Codification Design Fabrication and Practice The intention of the book is to transfer the findings of scientists and experts involved in research codification and application to the common practice This book provides a complete framework of the most recent trends in the field of steel structures in seismic areas with particular reference to the utilisation of multi level performance based design concepts the analysis of factors influencing the steel structure behaviour during strong ground motions minimizing earthquake damage seismic retrofit the collapse behavior of steel structures recent developments in advanced large scale experimental techniques and the utilization of large scale seismic testing facilities The book is a valuable resource for engineers scientists and Ph D students in Civil Engineering Earthquake Engineering Structural Engineering Steel Construction Steel Development and Building Disaster Prevention

Ductile Design of Steel Structures, 2nd Edition Michel Bruneau, Chia-Ming Uang, Rafael Sabelli, 2011-08-01

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 Behaviour of Steel Structures in Seismic Areas Federico M. Mazzolani, Gregory Anthony MacRae, George Charles Clifton, 2018 This collection of papers and keynote lectures presented at the 9th International Conference on the Behaviour of Steel Structures in Seismic Areas Stessa 2018 Christchurch New Zealand February 14 17 2018 is a comprehensive overview of the recent state of the art developments in the field of seismic resistant steel structures The book is a valuable source for all stakeholders involving scientists professionals companies and authorities dealing with the reduction of the seismic risk in earthquake prone countries Moment Resistant Connections of Steel Frames in Seismic Areas Federico Mazzolani, 2000-04-27 An

unexpected brittle failure of connections and of members occurred during the last earthquakes of Northridge and Kobe. For this reason, a heightened awareness developed in the international scientific community, particularly in the earthquake-prone countries of the Mediterranean and Eastern Europe, of the urgent need to investigate this topic. This volume results from a European project dealing with the reliability of moment-resistant connections of steel frames in seismic areas. It is a must-have for engineers who want to be at the cutting edge of design in seismic areas.

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