

Design of Seismic-Resistant Steel Building Structures

1. Introduction and Basic Principles

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with the support of the
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Seismic Resistant Steel Structures

Federico Mazzolani, Ricardo Herrera

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the authors' names.

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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 there putation 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

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

Performance-based Plastic Design Subhash Chandra Goel, Shih-Ho Chao, 2008-01-01

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

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

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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

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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 engineerse who want to be at the cutting edge of design in seismic areas

Earthquake Resistant Engineering Structures VII M. Phocas,C.A. Brebbia,P. Komodromos,2009-04-23 Based on the proceedings of the Seventh International Conference on Earthquake Resistant Engineering Structures ERES this book presents basic and applied research in the main

fields of engineering relevant to earthquake resistant analysis and design of structural systems

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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

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Steel - A New and Traditional Material for Building Dan Dubina, Viorel Ungureanu, 2006-08-17 In an era of new composite materials and high strength concrete and with an increasing demand for sustainable building technologies the importance of the role of steel in construction is being challenged Nonetheless steel can successfully be used to refurbish and retrofit historical buildings as well as being a material of choice for new building structures Steel can effectively be

combined with a variety of other materials to obtain structures which are characterized by a high performance response under different types of static and dynamic activity The proceedings contains nine keynote lectures from international experts and is further divided into five sections calculation models and methods studies and advances in design codes steel and mixed building technology steel under exceptional actions and steel in remarkable constructions and refurbishment

Light Gauge Metal Structures Recent Advances Jacques Rondal, Dan Dubina, 2007-08-08 The aim of this book is to review recent research and technical advances including the progress in design codes related to the engineering applications of light gauge metal sections made in carbon high strength and stainless steel as well as aluminium alloys Included is a review of the new technologies for connections of light gauge metal members Main advanced applications for residential non residential and industrial buildings and pallet rack systems are also covered For the first time this book takes into account all the metallic materials now used more and more for structural components The book will be of great interest not only for researchers but also for design engineers faced to the use of new metallic materials in modern structural applications

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Table of Contents Seismic Resistant Steel Structures

1. Understanding the eBook Seismic Resistant Steel Structures
 - The Rise of Digital Reading Seismic Resistant Steel Structures
 - Advantages of eBooks Over Traditional Books
2. Identifying Seismic Resistant Steel Structures
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Seismic Resistant Steel Structures
 - User-Friendly Interface
4. Exploring eBook Recommendations from Seismic Resistant Steel Structures
 - Personalized Recommendations
 - Seismic Resistant Steel Structures User Reviews and Ratings
 - Seismic Resistant Steel Structures and Bestseller Lists
5. Accessing Seismic Resistant Steel Structures Free and Paid eBooks
 - Seismic Resistant Steel Structures Public Domain eBooks
 - Seismic Resistant Steel Structures eBook Subscription Services
 - Seismic Resistant Steel Structures Budget-Friendly Options
6. Navigating Seismic Resistant Steel Structures eBook Formats

- ePub, PDF, MOBI, and More
 - Seismic Resistant Steel Structures Compatibility with Devices
 - Seismic Resistant Steel Structures Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Seismic Resistant Steel Structures
 - Highlighting and Note-Taking Seismic Resistant Steel Structures
 - Interactive Elements Seismic Resistant Steel Structures
 8. Staying Engaged with Seismic Resistant Steel Structures
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Seismic Resistant Steel Structures
 9. Balancing eBooks and Physical Books Seismic Resistant Steel Structures
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Seismic Resistant Steel Structures
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Seismic Resistant Steel Structures
 - Setting Reading Goals Seismic Resistant Steel Structures
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Seismic Resistant Steel Structures
 - Fact-Checking eBook Content of Seismic Resistant Steel Structures
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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