

**Program to Reduce the Earthquake Hazards of  
Steel Moment-Frame Structures**

## **Recommended Seismic Evaluation and Upgrade Criteria for Existing Welded Steel Moment-Frame Buildings**

# Recommended Seismic Evaluation Upgrade

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## **Recommended Seismic Evaluation Upgrade:**

Recommended Seismic Evaluation and Upgrade Criteria for Existing Welded Steel Moment-Frame Buildings (FEMA 351)  
Federal Emergency Agency, 2013-03-16 This report FEMA 351 Recommended Seismic Evaluation and Upgrade Criteria for Existing Welded Steel Moment Frame Buildings has been developed by the SAC Joint Venture under contract to the Federal Emergency Management Agency FEMA to provide structural engineers with recommended criteria for evaluation of the probable performance of existing steel moment frame buildings in future earthquakes and to provide a basis for updating and revision of evaluation and rehabilitation guidelines and standards It is one of a series of companion publications addressing the issue of the seismic performance of steel moment frame buildings The set of companion publications includes FEMA 350 Recommended Seismic Design Criteria for New Steel Moment Frame Buildings This publication provides recommended criteria supplemental to FEMA 302 1997 NEHRP Recommended Provisions for Seismic Regulations for New Buildings and Other Structures for the design and construction of steel moment frame buildings and provides alternative performance based design criteria FEMA 351 Recommended Seismic Evaluation and Upgrade Criteria for Existing Welded Steel Moment Frame Buildings This publication provides recommended methods to evaluate the probable performance of existing steel moment frame buildings in future earthquakes and to retrofit these buildings for improved performance FEMA 352 Recommended Postearthquake Evaluation and Repair Criteria for Welded Steel Moment Frame Buildings This publication provides recommendations for performing postearthquake inspections to detect damage in steel moment frame buildings following an earthquake evaluating the damaged buildings to determine their safety in the postearthquake environment and repairing damaged buildings FEMA 353 Recommended Specifications and Quality Assurance Guidelines for Steel Moment Frame Construction for Seismic Applications This publication provides recommended specifications for the fabrication and erection of steel moment frames for seismic applications The recommended design criteria contained in the other companion documents are based on the material and workmanship standards contained in this document which also includes discussion of the basis for the quality control and quality assurance criteria contained in the recommended specifications The information contained in these recommended evaluation and upgrade criteria hereinafter referred to as Recommended Criteria is presented in the form of specific recommendations for design and performance evaluation procedures together with supporting commentary explaining part of the basis for these recommendations

**Recommended Seismic Evaluation and Upgrade Criteria for Existing Welded Steel Moment-frame Buildings** SAC Joint Venture. Guidelines Development Committee, 2000      *Recommended Postearthquake Evaluation and Repair Criteria for Welded Steel Moment-frame Buildings* SAC Joint Venture. Guidelines Development Committee, 2000      *Recommended Seismic Design Criteria for New Steel Moment-frame Buildings* SAC Joint Venture. Guidelines Development Committee, 2000

**Recommended Seismic Design Criteria for New Steel Moment-Frame Buildings (FEMA 350)** Federal Emergency

Agency,2013-03-16 This report FEMA 350 Recommended Seismic Design Criteria for New Steel Moment Frame Buildings has been developed by the SAC Joint Venture under contract to the Federal Emergency Management Agency FEMA to provide organizations engaged in the development of consensus design standards and building code provisions with recommended criteria for the design and construction of new buildings incorporating moment resisting steel frame construction to resist the effects of earthquakes It is one of a series of companion publications addressing the issue of the seismic performance of steel moment frame buildings The set of companion publications includes FEMA 350 Recommended Seismic Design Criteria for New Steel Moment Frame Buildings This publication provides recommended criteria supplemental to FEMA 302 1997 NEHRP Recommended Provisions for Seismic Regulations for New Buildings and Other Structures for the design and construction of steel moment frame buildings and provides alternative performance based design criteria FEMA 351 Recommended Seismic Evaluation and Upgrade Criteria for Existing Welded Steel Moment Frame Buildings This publication provides recommended methods to evaluate the probable performance of existing steel moment frame buildings in future earthquakes and to retrofit these buildings for improved performance FEMA 352 Recommended Postearthquake Evaluation and Repair Criteria for Welded Steel Moment Frame Buildings This publication provides recommendations for performing postearthquake inspections to detect damage in steel moment frame buildings following an earthquake evaluating the damaged buildings to determine their safety in the postearthquake environment and repairing damaged buildings FEMA 353 Recommended Specifications and Quality Assurance Guidelines for Steel Moment Frame Construction for Seismic Applications This publication provides recommended specifications for the fabrication and erection of steel moment frames for seismic applications The recommended design criteria contained in the other companion documents are based on the material and workmanship standards contained in this document which also includes discussion of the basis for the quality control and quality assurance criteria contained in the recommended specifications The information contained in these recommended design criteria hereinafter referred to as Recommended Criteria is presented in the form of specific design and performance evaluation procedures together with supporting commentary explaining part of the basis for these recommendations **Structural Analysis and Design of Tall Buildings** Bungale S.

Taranath,2016-04-19 As software skills rise to the forefront of design concerns the art of structural conceptualization is often minimized Structural engineering however requires the marriage of artistic and intuitive designs with mathematical accuracy and detail Computer analysis works to solidify and extend the creative idea or concept that might have started out as a sketch on the back of an envelope From Sketches on the Back of an Envelope to Elegant Economical Buildings The Art of Structural Conceptualization Bridging the gap between the conceptual approach and computer analysis Structural Analysis and Design of Tall Buildings Steel and Composite Construction integrates the design aspects of steel and composite buildings in one volume Using conceptual thinking and basic strength of material concepts as foundations the book shows engineers

how to use imperfect information to estimate the answer to larger and more complex design problems by breaking them down into more manageable pieces Written by an accomplished structural engineer this book discusses the behavior and design of lateral load resisting systems the gravity design of steel and composite floors and columns and methods for determining wind loads It also examines the behavior and design of buildings subject to inelastic cyclic deformation during large earthquakes with an emphasis on visual and descriptive analysis as well as the anatomy of seismic provisions and the rehabilitation of seismically vulnerable steel buildings Intuitive Techniques for Construction and Design The book covers a range of special topics including performance based design and human tolerance for the wind induced dynamic motions of tall buildings It also presents preliminary analysis techniques graphical approaches for determining wind and seismic loads and graphical aids for estimating unit quantity of structural steel The final chapter deals with the art of connection design Forty case studies from New York s Empire State Building to Kuala Lumpur s Petronas Towers highlight the aspects of conceptualization that are key in the design of tall and ultra tall buildings A comprehensive design reference this book guides engineers to visualize conceptualize and realize structural systems for tall buildings that are elegant and economical

Guidelines for the Seismic Evaluation and Upgrade of Water Transmission Facilities John M. Eidinger, Ernesto A. Avila, 1999-01-01 Prepared by the Technical Council on Lifeline Earthquake Engineering of ASCE This TCLEE Monograph provides guidelines for the seismic evaluation and upgrade of water transmission facilities including aqueducts tunnels canals buried pipelines elevated pipelines and their appurtenances Topics covered include the performance of these facilities in past earthquakes geotechnical issues performance criteria risk analysis analysis methods and a series of case studies The guidelines can also be used for the design of new water transmission facilities The case studies cover seismic designs and retrofits for the Mokelumne Aqueduct the Contra Costa Canal the Borel Canal buried pipes at fault crossings and auxiliary water fire fighting systems The case studies also examine post earthquake operations financial issues and the benefits of seismic retrofits

**Reinforced Concrete Design of Tall Buildings** Bungale S. Taranath, 2009-12-14 An exploration of the world of concrete as it applies to the construction of buildings Reinforced Concrete Design of Tall Buildings provides a practical perspective on all aspects of reinforced concrete used in the design of structures with particular focus on tall and ultra tall buildings Written by Dr Bungale S Taranath this work explains t

**Reliability Evaluation of Dynamic Systems Excited in Time Domain - Redset** Achintya Haldar, Hamoon Azizsoltani, J. Ramon Gaxiola-Camacho, Sayyed Mohsen Vazirizade, Jungwon Huh, 2023-02-17 RELIABILITY EVALUATION OF DYNAMIC SYSTEMS EXCITED IN TIME DOMAIN REDSET Multi disciplinary approach to structural reliability analysis for dynamic loadings offering a practical alternative to the random vibration theory and simulation Reliability Evaluation of Dynamic Systems Excited in Time Domain REDSET is a multidisciplinary concept that enables readers to estimate the underlying risk that could not be solved in the past The major hurdle was that the required limit state functions LSFs are implicit in nature and the lack of progress in the reliability

evaluation methods for this class of problems The most sophisticated deterministic analysis requires that the dynamic loadings must be applied in the time domain To satisfy these requirements REDSET is developed Different types and forms of dynamic loadings including seismic wind induced wave and thermomechanical loading in the form of heating and cooling of solder balls used in computer chips are considered to validate REDSET Time domain representations and the uncertainty quantification procedures including the use of multiple time histories are proposed and demonstrated for all these dynamic loadings Both onshore and offshore structures are used for validation The potential of REDSET is demonstrated for implementing the Performance Based Seismic Design PBSDB concept now under development in the United States For wider multidisciplinary applications structures are represented by finite elements to capture different types of nonlinearity more appropriately Any computer program capable of conducting nonlinear time domain dynamic analysis can be used and the underlying risk can be estimated with the help of several dozens or hundreds of deterministic finite element analyses providing an alternative to the simulation approach To aid comprehension of REDSET numerous illustrative examples and solution strategies are presented in each chapter Written by award winning thought leaders from academia and professional practice the following sample topics are included Fundamentals of reliability assessment including set theory modeling of uncertainty the risk based engineering design concept and the evolution of reliability assessment methods Implicit performance or limit state functions are expressed explicitly by the extensively modified response surface method with several new experimental designs Uncertainty quantification procedures with multiple time histories for different dynamic loadings illustrated with examples The underlying risk can be estimated using any computer program representing structures by finite elements with only few deterministic analyses REDSET is demonstrated to be an alternative to the classical random vibration concept and the basic simulation procedure for risk estimation purposes REDSET changes the current engineering design paradigm Instead of conducting one deterministic analysis a design can be made more dynamic load tolerant resilient and sustainable with the help of a few additional deterministic analyses This book describing REDSET is expected to complement two other books published by Wiley and authored by Haldar and Mahadevan Probability Reliability and Statistical Methods in Engineering Design and Reliability Assessment Using Stochastic Finite Element Analysis The book is perfect to use as a supplementary resource for upper level undergraduate and graduate level courses on reliability and risk based design

**Tall Building Design** Bungale S. Taranath, 2016-10-04 Addresses the Question Frequently Proposed to the Designer by Architects Can We Do This Offering guidance on how to use code based procedures while at the same time providing an understanding of why provisions are necessary Tall Building Design Steel Concrete and Composite Systems methodically explores the structural behavior of steel concrete and composite members and systems This text establishes the notion that design is a creative process and not just an execution of framing proposals It cultivates imaginative approaches by presenting examples specifically related to essential building codes and standards Tying together

precision and accuracy it also bridges the gap between two design approaches one based on initiative skill and the other based on computer skill The book explains loads and load combinations typically used in building design explores methods for determining design wind loads using the provisions of ASCE 7 10 and examines wind tunnel procedures It defines conceptual seismic design as the avoidance or minimization of problems created by the effects of seismic excitation It introduces the concept of performance based design PBD It also addresses serviceability considerations prediction of tall building motions damping devices seismic isolation blast resistant design and progressive collapse The final chapters explain gravity and lateral systems for steel concrete and composite buildings The Book Also Considers Preliminary analysis and design techniques The structural rehabilitation of seismically vulnerable steel and concrete buildings Design differences between code sponsored approaches The concept of ductility trade off for strength Tall Building Design Steel Concrete and Composite Systems is a structural design guide and reference for practicing engineers and educators as well as recent graduates entering the structural engineering profession This text examines all major concrete steel and composite building systems and uses the most up to date building codes *Recommended Seismic Evaluation and Upgrade Criteria for Existing Welded Steel Moment-frame Buildings* ,2000 **Damping Technologies for Tall Buildings** Alberto Lago,Dario Trabucco,Antony Wood,2018-09-25 Damping Technologies for Tall Buildings provides practical advice on the selection design installation and testing of damping systems Richly illustrated with images and schematics this book presents expert commentary on different damping systems giving readers a way to accurately compare between different device categories and gain and understand the advantages and disadvantages of each In addition the book covers their economical and sustainability implications Case studies are included to provide a direct understanding on the possible applications of each device category Provides an expert guide on the selection and deployment of the various types of damping technologies Drawn from extensive contributions from international experts and research projects that represent the current state of the art and design in damping technologies Includes 25 real case studies collected with very detailed information on damping design installation testing and other building implications **Policy Guide to Steel Moment-Frame Construction** William J. Hall,2008-07 Prior to the 1994 Northridge and 1995 Kobe earthquakes engineers believed that steel moment frames would bend under earthquake loading but not break As a result this became one of the most common types of construction used for major bldgs in areas subject to severe earthquakes The discovery of the potential for fracturing in these frames called to question the adequacy of the building code provisions dealing with this type of construction and created a crisis of confidence In response FEMA issued this policy guide to provide a non technical summary of valuable information an understanding of the risk associated with steel moment frame buildings and the practical measures that can be taken to reduce this risk Illustrations Wind and Earthquake Resistant Buildings Bungale S. Taranath,2004-12-15 Developed as a resource for practicing engineers while simultaneously serving as a text in a formal classroom setting Wind and Earthquake

Resistant Buildings provides a fundamental understanding of the behavior of steel concrete and composite building structures. The text format follows in a logical manner the typical process of designing a building.

**Catalog of FEMA Earthquake Resources** United States. Federal Emergency Management Agency, 2013. *A Policy Guide to Steel Moment-frame Construction* Ronald O. Hamburger, 2000.

**Earthquake Risk Reduction** David J. Dowrick, 2003-09-12. Encompassing theory and field experience this book covers all the main subject areas in earthquake risk reduction ranging from geology seismology structural and soil dynamics to hazard and risk assessment risk management and planning engineering and the architectural design of new structures and equipment. Earthquake Risk Reduction outlines individual national weaknesses that contribute to earthquake risk to people and property calculates the seismic response of soils and structures using the structural continuum Subsoil Substructure Superstructure. Non structure evaluates the effectiveness of given designs and construction procedures for reducing casualties and financial losses provides guidance on the key issue of choice of structural form presents earthquake resistant designs methods for the four main structural materials steel concrete reinforced masonry and timber as well as for services equipment plant and non structural architectural components contains a chapter devoted to problems involved in improving retrofitting the existing built environment. Compiled from the author's extensive professional experience in earthquake engineering this key text provides an excellent treatment of the complex multidisciplinary process of earthquake risk reduction. This book will prove an invaluable reference and guiding tool to practicing civil and structural engineers and architects researchers and postgraduate students in seismology local governments and risk management officials.

FEMA Publications Catalog United States. Federal Emergency Management Agency, 2001. *Case Studies of Rehabilitation, Repair, Retrofitting, and Strengthening of Structures* Mourad M. Bakhoun, 2010.

**System Modeling and Optimization** Adam Korytowski, Maciej Szymkat, Kazimierz Malanowski, Wojciech Mitkowski, 2009-10-27. This book constitutes a collection of extended versions of papers presented at the 23 IFIP TC7 Conference on System Modeling and Optimization which was held in Cracow Poland on July 23-27 2007. It contains 7 plenary and 22 contributed articles the latter selected via a peer reviewing process. Most of the papers are concerned with optimization and optimal control. Some of them deal with practical issues e.g. performance based design for seismic risk reduction or evolutionary optimization in structural engineering. Many contributions concern optimization of infinite dimensional systems ranging from a general overview of the variational analysis through optimization and sensitivity analysis of PDE systems to optimal control of neutral systems. A significant group of papers is devoted to shape analysis and optimization. Sufficient optimality conditions for ODE problems and stochastic control methods applied to mathematical finance are also investigated. The remaining papers are on mathematical programming modeling and information technology. The conference was the 23rd event in the series of such meetings biennially organized under the auspices of the Seventh Technical Committee Systems Modeling and Optimization of the International Federation for Information Processing IFIP TC7.



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