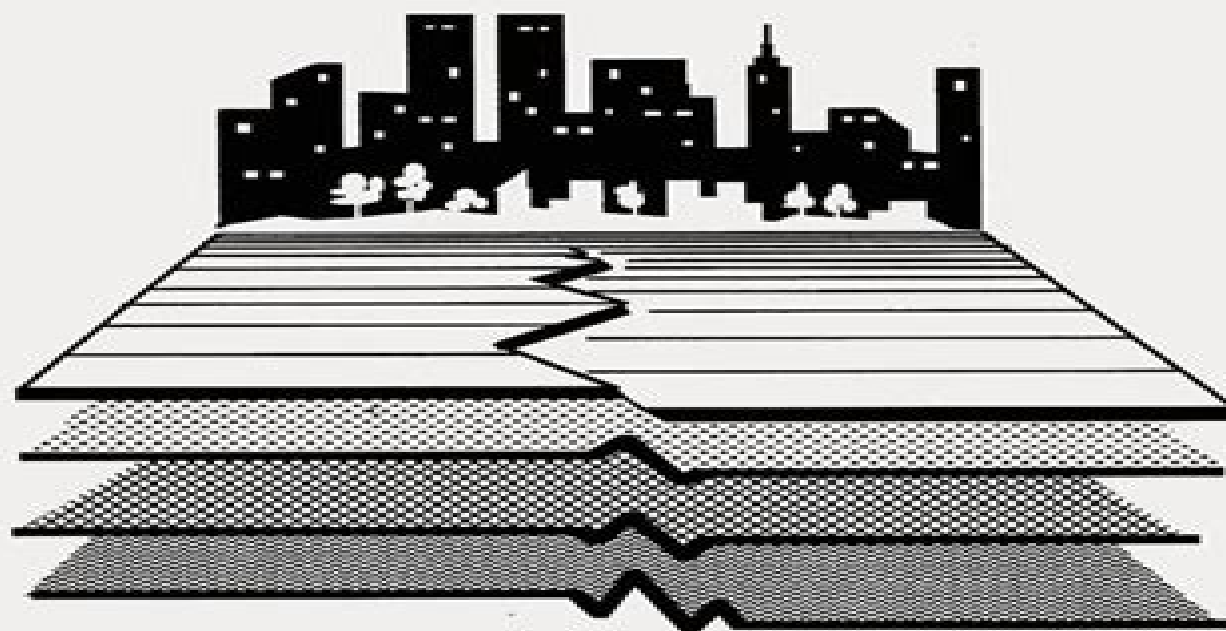


GLOBAL TOPICS REPORT ON THE PRESTANDARD AND COMMENTARY FOR THE SEISMIC REHABILITATION OF BUILDINGS



Global Topics Report On The Prestandard And Commentary For The Seismic Rehabilitation Of Buildings

Clarence W. de Silva



Global Topics Report On The Prestandard And Commentary For The Seismic Rehabilitation Of Buildings:

Global Topics Report on the Prestandard and Commentary for the Seismic Rehabilitation of Buildings Ugo Morelli, Thomas R. McLane, 2000-01-01 The third in a series of reports chronicling the development of the NEHRP Guidelines for the Seismic Rehab of Buildings into the Prestandard Commentary for the Seismic Rehab of Buildings This report provides a narrative discussion permanent record of the technical changes made to the Guidelines as the document evolved into the Prestandard It is the vehicle by which new technical information was introduced into the Prestandard as issues were identified when possible resolved by the Prestandard Project Team Also includes a brief discussion of new concepts introduced to the engineering profession in the publication of the original Guidelines Commentary documents *Global Topics Report on the Prestandard and Commentary for the Seismic Rehabilitation of Buildings* Federal Emergency Management Agency, 2013-04-02 Among the FEMA documents covering the topic of making existing buildings more resistant to the effects of earthquakes this volume occupies a unique position it is the only one that fulfills a historical need When the decision was made to convert the performance based Guidelines for the Seismic Rehabilitation of Buildings FEMA 273 into a prestandard containing mandatory language FEMA 356 there was considerable concern among design professionals that some of the major characteristics and salient features of the original document or indeed its very fabric would be adversely affected in the conversion process This Global Topics Report is the third in a series of reports chronicling the development of the FEMA 273 NEHRP Guidelines for the Seismic Rehabilitation of Buildings into the FEMA 356 Prestandard and Commentary for the Seismic Rehabilitation of Buildings The purpose of this report is to provide a narrative discussion and permanent record of the technical changes made to Guidelines as the document evolved into the Prestandard It is the vehicle by which new technical information was introduced into the Prestandard as issues were identified and when possible resolved by the Prestandard Project Team For completeness this report also includes a brief discussion of new concepts introduced to the engineering profession in the publication of the original FEMA 273 Guidelines and FEMA 274 Commentary documents As the Guidelines were used by the industry questions arose regarding application of certain procedures interpretation of some provisions and results stemming from portions of the methodology These questions have been formulated into statements termed global issues and recorded in this report for reference during the prestandard project and future revisions of the document At the time the Guidelines were published it was known that additional research was needed to refine the accuracy and applicability of certain procedures and analytical studies were required to test and substantiate certain new concepts and philosophical themes Unresolved issues reported by BSSC to be present at the time of publication are incorporated into this report and identified with the designation previously unresolved in the classification of the issue The purpose of Global Topics Report 1 Identification of Global Issues dated April 12 1999 was to formulate a statement and classify global issues that had been identified as of the date of the report The issues identified in that report were presented

and discussed at the ASCE Standards Committee Meeting on March 3 1999 in San Francisco The discussions resulted in clarifications to some of the issues as well as a consensus on the recommended classification of each issue Comments from Standards Committee members were incorporated into the report and were used by the Project Team in moving issues toward resolution Global Topics Report 2 was published on March 22 2000 The purpose of the second report was to formulate statements for new global issues identified since Global Topics Report 1 and to document resolution of issues that were incorporated into the Second Draft of the Prestandard This third and final Global Topics Report contains new global issues identified since the publication of the previous two reports and final resolutions of previously identified issues The appendices to this report contain the results of special focused studies which serve as back up data to the resolution of selected issues These studies are referenced in the body of this report where applicable and included in the appendices for future reference Upon completion of the Case Studies Project the final report FEMA 343 Case Studies An Assessment of the NEHRP Guidelines for the Seismic Rehabilitation of Buildings was made available to the Prestandard Project Team

Global Topics Report on the Prestandard and Commentary for the Seismic Rehabilitation of Buildings, 2000 **Case Studies of Rehabilitation, Repair, Retrofitting, and Strengthening of Structures** Mourad M. Bakhoun, 2010

Earthquake Engineering Handbook Charles Scawthorn, Wai-Fah Chen, 2002-09-27 Earthquakes are nearly unique among natural phenomena they affect virtually everything within a region from massive buildings and bridges down to the furnishings within a home Successful earthquake engineering therefore requires a broad background in subjects ranging from the geologic causes and effects of earthquakes to understanding the impact of these effects on foundations buildings structures the infrastructure and even their social and economic impact The Earthquake Engineering Handbook is a comprehensive resource that covers the spectrum of topics relevant to designing for and mitigating earthquakes In it international experts present engineering practices research and developments in North America Europe and the Pacific Rim countries The emphasis is on professional applications with discussion ranging from basic dynamics and geoscience to new technologies intended to avoid rather than resist the forces of earthquakes Covering both traditional and innovative practices the Earthquake Engineering Handbook is the first professional reference that brings together all of earthquake engineering's many facets Formulas tables and illustrations give immediate answers to questions arising in practice and summaries of the essential elements of each topic paint a global picture from which readers can develop understanding and the ability to think beyond the results presented **FEMA Publications Catalog** United States. Federal Emergency Management Agency, 2001

Recent Trends in Civil Engineering Arjun Sil, Denise-Penelope N. Kontoni, Rathish Kumar Pancharathi, 2022-10-03 This book presents the select proceedings of International Conference on Recent Advancements in Civil Engineering ICRACE 2021 Various topics covered include theory and advanced technology of engineering structure high rise structure and large span structure bridge and tunnel engineering advanced concrete technology durable structures

building energy conservation and green architecture disaster management smart structures and materials soil and rock mechanics geotechnology hydraulic and hydro power engineering road bridge engineering and sustainable transportation infrastructures This book will be useful for researchers and professionals working in the area of civil engineering and allied fields **Report** ,2002 *Coupled Site and Soil-Structure Interaction Effects with Application to Seismic Risk Mitigation*

Tom Schanz,Roumen Iankov,2009-06-18 Proceedings of the NATO Advanced Research Workshop on Coupled Site and Soil Structure Interaction Effects with Application to Seismic Risk Mitigation Borovets Bulgaria 30 August 3 September 2008

Vibration and Shock Handbook Clarence W. de Silva,2005-06-27 Every so often a reference book appears that stands apart from all others destined to become the definitive work in its field The Vibration and Shock Handbook is just such a reference From its ambitious scope to its impressive list of contributors this handbook delivers all of the techniques tools instrumentation and data needed to model analyze monitor modify and control vibration shock noise and acoustics Providing convenient thorough up to date and authoritative coverage the editor summarizes important and complex concepts and results into snapshot windows to make quick access to this critical information even easier The Handbook s nine sections encompass fundamentals and analytical techniques computer techniques tools and signal analysis shock and vibration methodologies instrumentation and testing vibration suppression damping and control monitoring and diagnosis seismic vibration and related regulatory issues system design application and control implementation and acoustics and noise suppression The book also features an extensive glossary and convenient cross referencing plus references at the end of each chapter Brimming with illustrations equations examples and case studies the Vibration and Shock Handbook is the most extensive practical and comprehensive reference in the field It is a must have for anyone beginner or expert who is serious about investigating and controlling vibration and acoustics *Proceedings of Seminar on Seismic Design, Performance, and Retrofit of Nonstructural Components in Critical Facilities* ,2003

Special Topics in Earthquake Geotechnical Engineering Mohamed A. Sakr,Atilla Ansal,2012-03-20 Geotechnical Earthquake Engineering and Soil Dynamics as well as their interface with Engineering Seismology Geophysics and Seismology have all made remarkable progress over the past 15 years mainly due to the development of instrumented large scale experimental facilities to the increase in the quantity and quality of recorded earthquake data to the numerous well documented case studies from recent strong earthquakes as well as enhanced computer capabilities One of the major factors contributing to the aforementioned progress is the increasing social need for a safe urban environment large infrastructures and essential facilities The main scope of our book is to provide the geotechnical engineers geologists and seismologists with the most recent advances and developments in the area of earthquake geotechnical engineering seismology and soil dynamics **The Second U.S.-Japan Workshop on Performance-Based Earthquake Engineering Methodology for Reinforced Concrete Building Structures [proceedings]** Toshimi Kabeyasawa,2000 **New Experimental Capabilities and Loading Protocols for Seismic**

Qualification and Fragility Assessment of Nonstructural Systems ,2008 **PEER Center News** ,1998 **Books In Print 2004-2005** Ed Bowker Staff,Staff Bowker, Ed,2004 Theory and Practice in Earthquake Engineering and Technology T. G. Sitharam,Sreevalsa Kolathayar,Ravi S. Jakka,Vasant Matsagar,2022-06-07 This book contains diverse topics relevant to earthquake engineering and technology The chapters are of interest to readers from various disciplines as the different chapters discuss popular topics on earthquake engineering and allied disciplines The chapters have adequate illustrations and tables for clarifying underlying concepts The reader can understand the fundamental concepts easily and the book is highly useful for practice in the field in addition to classroom learning Techniques for the Seismic Rehabilitation of Existing Buildings ,2006 **Proceedings of the International Conference on Earthquake Engineering and Structural Dynamics** Rajesh Rupakhety,Simon Olafsson,Bjarni Bessason,2018-06-30 This book includes a collection of chapters that were presented at the International Conference on Earthquake Engineering and Structural Dynamics ICESD held in Reykjavik Iceland between 12 14 June 2017 The contributions address a wide spectrum of subjects related to wind engineering earthquake engineering and structural dynamics Dynamic behavior of ultra long span bridges that are discussed in this volume represent one of the most challenging and ambitious contemporary engineering projects Concepts principles and applications of earthquake engineering are presented in chapters addressing various aspects such as ground motion modelling hazard analysis structural analysis and identification design and detailing of structures risk due to non structural components and risk communication and mitigation The presented chapters represent the state of the art in these fields as well as the most recent developments **Earthquake Engineering** Yousef Bozorgnia,Vitelmo V. Bertero,2004-05-11 This multi contributor book provides comprehensive coverage of earthquake engineering problems an overview of traditional methods and the scientific background on recent developments It discusses computer methods on structural analysis and provides access to the recent design methodologies and serves as a reference for both professionals and res

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Introduction

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