

Performance-Based Seismic Design:

Understanding Critical Seismic Actions in Structures



Performance Based Seismic Design Rising

Victor M. Corman



Performance Based Seismic Design Rising:

Performance-Based Seismic Engineering: Vision for an Earthquake Resilient Society Matej Fischinger, 2014-07-15 The Bled workshops have traditionally produced reference documents providing visions for the future development of earthquake engineering as foreseen by leading researchers in the field The participants of the 2011 workshop built on the tradition of these events initiated by Professors Fajfar and Krawinkler to honor their important research contributions and have now produced a book providing answers to crucial questions in today's earthquake engineering What visible changes in the design practice have been brought about by performance based seismic engineering What are the critical needs for future advances What actions should be taken to respond to those needs The key answer is that research interests should go beyond the narrow technical aspects and that the seismic resilience of society as a whole should become an essential part of the planning and design process The book aims to provide essential guidelines for researchers professionals and students in the field of earthquake engineering It will also be of particular interest for all those working at insurance companies governmental civil protection and emergency management agencies that are responsible for assessing and planning community resilience The introductory chapter of the book is based on the keynote presentation given at the workshop by the late Professor Helmut Krawinkler As such the book includes Helmut's last and priceless address to the engineering community together with his vision and advice for the future development of performance based design earthquake engineering and seismic risk management

Advances in Performance-Based Earthquake Engineering Michael N. Fardis, 2010-07-05 Performance based Earthquake Engineering has emerged before the turn of the century as the most important development in the field of Earthquake Engineering during the last three decades It has since then started penetrating codes and standards on seismic assessment and retrofitting and making headway towards seismic design standards for new structures as well The US have been a leader in Performance based Earthquake Engineering but also Europe is a major contributor Two Workshops on Performance based Earthquake Engineering held in Bled Slovenia in 1997 and 2004 are considered as milestones The ACES Workshop in Corfu Greece of July 2009 builds on them attracting as contributors world leaders in Performance based Earthquake Engineering from North America Europe and the Pacific rim Japan New Zealand Taiwan China It covers the entire scope of Performance based Earthquake Engineering Ground motions for performance based earthquake engineering Methodologies for Performance based seismic design and retrofitting Implementation of Performance based seismic design and retrofitting and Advanced seismic testing for performance based earthquake engineering Audience This volume will be of interest to scientists and advanced practitioners in structural earthquake engineering geotechnical earthquake engineering engineering seismology and experimental dynamics

High-Rise Buildings under Multi-Hazard Environment Mingfeng Huang, 2016-08-15 This book discusses performance based seismic and wind resistant design for high rise building structures with a particular focus on establishing

an integrated approach for performance based wind engineering which is currently less advanced than seismic engineering This book also provides a state of the art review of numerous methodologies including computational fluid dynamics CFD extreme value analysis structural optimization vibration control pushover analysis response spectrum analysis modal parameter identification for the assessment of the wind resistant and seismic performance of tall buildings in the design stage and actual tall buildings in use Several new structural optimization methods including the augmented optimality criteria method have been developed and employed in the context of performance based design This book is a valuable resource for students researchers and engineers in the field of civil and structural engineering

Performance Based Seismic Design for Tall Buildings Ramin Golesorkhi, Leonard Joseph, Ron Klemencic, David Shook, John Viise, 2017-10-30

Performance Based Seismic Design (PBSD) is a structural design methodology that has become more common in urban centers around the world particularly for the design of high rise buildings The primary benefit of PBSD is that it substantiates exceptions to prescribed code requirements such as height limits applied to specific structural systems and allows project teams to demonstrate higher performance levels for structures during a seismic event However the methodology also involves significantly more effort in the analysis and design stages with verification of building performance required at multiple seismic demand levels using Nonlinear Response History Analysis (NRHA) The design process also requires substantial knowledge of overall building performance and analytical modeling in order to proportion and detail structural systems to meet specific performance objectives This CTBUH Technical Guide provides structural engineers developers and contractors with a general understanding of the PBSD process by presenting case studies that demonstrate the issues commonly encountered when using the methodology along with their corresponding solutions The guide also provides references to the latest industry guidelines as applied in the western United States with the goal of disseminating these methods to an international audience for the advancement and expansion of PBSD principles worldwide

Computational Structural Engineering Yong Yuan, Junzhi Cui, Herbert A. Mang, 2009-06-05

Following the great progress made in computing technology both in computer and programming technology computation has become one of the most powerful tools for researchers and practicing engineers It has led to tremendous achievements in computer based structural engineering and there is evidence that current developments will even accelerate in the near future To acknowledge this trend Tongji University Vienna University of Technology and Chinese Academy of Engineering co organized the International Symposium on Computational Structural Engineering 2009 in Shanghai CSE 09 CSE 09 aimed at providing a forum for presentation and discussion of state of the art development in scientific computing applied to engineering sciences Emphasis was given to basic methodologies scientific development and engineering applications Therefore it became a central academic activity of the International Association for Computational Mechanics (IACM) the European Community on Computational Methods in Applied Sciences (ECCOMAS) The Chinese Society of Theoretical and Applied Mechanics the China Civil Engineering Society and the

Architectural Society of China A total of 10 invited papers and around 140 contributed papers were presented in the proceedings of the symposium Contributors of papers came from 20 countries around the world and covered a wide spectrum related to the computational structural engineering *Advances in Civil Structures IV* Chao He Chen, Guang Fan Li, Qi Zhong Shen, Bi Feng Jiang, 2014-07-04 Selected peer reviewed papers from the 4th International Conference on Civil Engineering Architecture and Building Materials CEABM 2014 May 24-25 2014 Haikou China Energy-Based Seismic Engineering Amadeo Benavent-Climent, Fabrizio Mollaioli, 2021-04-30 This volume gathers the latest advances innovations and applications in the field of seismic engineering as presented by leading researchers and engineers at the 1st International Workshop on Energy Based Seismic Engineering IWEBSE held in Madrid Spain on May 24-26 2021 The contributions cover a diverse range of topics including energy based EDPs damage potential of ground motion structural modeling in energy based damage assessment of structures energy dissipation demand on structural components innovative structures with energy dissipation systems or seismic isolation as well as seismic design and analysis Selected by means of a rigorous peer review process they will spur novel research directions and foster future multidisciplinary collaborations **Performance-based Design of Steel Moment Frames Using Target Drift and Yield Mechanism** Soon-Sik Lee, Subhash Chandra Goel, 2001

Probabilistic performance-based seismic design fib Fédération internationale du béton, 2012-05-07 In the last ten to fifteen years a vast amount of research has been undertaken to improve on earlier methods for analysing the seismic reliability of structures These efforts focused on identifying aspects of prominent relevance and disregarding the inessential ones with the goal of producing methods that are both more efficient and easier to use in practice Today this goal can be said to be substantially achieved During these years scientific activity covered all of the many aspects involved in such a multidisciplinary problem ranging from seismology to geotechnics to structural analysis and economy all of them to be consistently organised into a probabilistic framework As the output of this research was dispersed into a multitude of technical papers fib Commission 7 thought it worthwhile to select the essential aspects of this large body of knowledge and to present them into a coherent and accessible document for structural engineers To this end a task group of specialists was formed whose qualifications come from their personal involvement in the above mentioned developments throughout this period of time From its inception the group decided that the bulletin should have had a distinct educational character and provide a clear overview of the methods available The outcome is a compact volume that starts by introducing the concepts and definitions of performance based engineering continues with two chapters on assessment and design respectively presenting the methods in detail accompanied by illustrative examples and concludes with an appendix with sample programming excerpts for their implementation It is believed that at present fib Bulletin 68 represents a unique compendium on probabilistic performance based seismic design Seismic Isolation, Structural Health Monitoring, and Performance Based Seismic Design in Earthquake Engineering Azer A. Kasimzade, Erdal Şafak, Carlos E. Ventura, Farzad Naeim, Yoichi

Mukai,2018-08-13 This book features chapters based on selected presentations from the International Congress on Advanced Earthquake Resistance of Structures AERS2016 held in Samsun Turkey from 24 to 28 October 2016 It covers the latest advances in three widely popular research areas in Earthquake Engineering Performance Based Seismic Design Seismic Isolation Systems and Structural Health Monitoring The book shows the vulnerability of high rise and seismically isolated buildings to long periods of strong ground motions and proposes new passive and semi active structural seismic isolation systems to protect against such effects These systems are validated through real time hybrid tests on shaking tables Structural health monitoring systems provide rapid assessment of structural safety after an earthquake and allow preventive measures to be taken such as shutting down the elevators and gas lines before damage occurs Using the vibration data from instrumented tall buildings the book demonstrates that large distant earthquakes and surface waves which are not accounted for in most attenuation equations can cause long duration shaking and damage in tall buildings The overview of the current performance based design methodologies includes discussions on the design of tall buildings and the reasons common prescriptive code provisions are not sufficient to address the requirements of tall building design In addition the book explains the modelling and acceptance criteria associated with various performance based design guidelines and discusses issues such as selection and scaling of ground motion records soil foundation structure interaction and seismic instrumentation and peer review needs The book is of interest to a wide range of professionals in earthquake engineering including designers researchers and graduate students

Frontiers of Green Building, Materials and Civil Engineering Dong Ye Sun,Wen Pei Sung,Ran Chen,2011-07-27 Selected peer reviewed papers from the 2011 International Conference on Green Building Materials and Civil Engineering GBMCE 2011 Shangri La China August 22 23 2011 *WCTE 2006* ,2006 **Performance-Based Seismic Design of Concrete Structures and Infrastructures** Plevris,

Vagelis,Kremmyda, Georgia,Fahjan, Yasin,2017-02-14 Solid design and craftsmanship are a necessity for structures and infrastructures that must stand up to natural disasters on a regular basis Continuous research developments in the engineering field are imperative for sustaining buildings against the threat of earthquakes and other natural disasters Performance Based Seismic Design of Concrete Structures and Infrastructures is an informative reference source on all the latest trends and emerging data associated with structural design Highlighting key topics such as seismic assessments shear wall structures and infrastructure resilience this is an ideal resource for all academicians students professionals and researchers that are seeking new knowledge on the best methods and techniques for designing solid structural designs

The Second U.S.-Japan Workshop on Performance-Based Earthquake Engineering Methodology for Reinforced Concrete Building Structures [proceedings] Toshimi Kabeyasawa,2000 **Performance-based Earthquake-resistant Design of Framed Buildings Using Energy Concepts** Amador Teran-Gilmore,1996 **U.S.-Japan Workshop on Performance-Based Earthquake Engineering Methodology for Reinforced Concrete Building Structures** Toshimi

Kabeyasawa,1999 *Performance Based Seismic Engineering of Buildings: pt. 3. Preliminary Northridge lessons. pt. 4. Moving the blue book toward performance based engineering* Structural Engineers Association of California. Vision 2000 Committee,1995 Performance Based Seismic Engineering of Buildings: pt. 1. Interim recommendations. pt. 2. Conceptual framework Structural Engineers Association of California. Vision 2000 Committee,1995 **First Hawaiian Center** Gary Y. K. Chock,Charles Alexander,Peter Schubert,1997 **Concrete International** ,2008

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