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Seismic Design, Assessment and Retrofitting of Concrete Buildings Designers' Guide to EN 1998-1 and EN 1998-5 Eurocode 8 BS EN 1998-1-2. Eurocode 8. Design of Structures for Earthquake Resistance Designers' Guide to Eurocode 8 Designers' Guide to EN 1998-1 and EN 1998-5 BS EN 1998-1-1. Eurocode 8. Design of Structures for Earthquake Resistance Seismic Design of Concrete Buildings to Eurocode 8 BS EN 1998-2. Eurocode 8. Design of Structures for Earthquake Resistance Eurocode 8 BS EN 1998-3. Eurocode 8. Design of Structures for Earthquake Resistance Seismic Design of Concrete Buildings to Eurocode 8 ENV 1998-1-4 BS EN 1998-5. Eurocode 8. Design of Structures for Earthquake Resistance Designers' Guide to EN 1998-1 and 1998-5 Eurocode-Compliant Seismic Analysis and Design of R/C Buildings Seismic Design of Buildings to Eurocode 8 ENV 1998-4 BS EN 1998-4. Eurocode 8. Design of Structures for Earthquake Resistance Designers' Guide to EN 1998-1 and 1998-5. Eurocode 8 Eurocode 8--design of Structures for Earthquake Resistance Perspectives on European Earthquake Engineering and Seismology Eurocode 8: Design of structures for earthquake resistance - Part 1: General rules, seismic actions and rules for buildings Design of Steel Structures for Buildings in Seismic Areas Design of Steel Structures for Buildings in Seismic Areas Bridge Engineering Handbook Critical comparison of major seismic codes for buildings The Seismic Design Handbook STESSA 2003 - Behaviour of Steel Structures in Seismic Areas Seismic Design and Analysis of Tanks Handbook of International Bridge Engineering DS/EN 1998-1 Eurocode 8, Design of Structures for Earthquake Resistance: Assessment and retrofitting of buildings Applied Geotechnics for Construction Projects, Volume 3 Eurocode 8 Applied Geotechnics for Construction Projects, Volume 2 Applied Geotechnics for Construction Projects, Volume 1 Recent Advances in Earthquake Geotechnical Engineering and Microzonation Future Directions for EN1998 Steel Designers' Manual Perspectives on European Earthquake Engineering and Seismology

Earthquake-resistant design, Structures, Structural design, Seismology, Structural systems, Construction systems, Hazard prevention in buildings, Safety measures, Seismic intensity, Plastic analysis, Design calculations, Foundations, Classification systems, Subsoil, Earthquake zones, Earthquakes, Mathematical calculations This classic manual on structural steel design provides a major source of reference for structural engineers and fabricators working with the leading construction material. Based fully on the concepts of limit state design, the manual has been revised to take account of the 2000 revisions to BS 5950. It also looks at new developments in structural steel, environmental issues and outlines the main requirements of the Eurocode on structural steel. 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 This series of Designers Guides to the Eurocodes provides comprehensive guidance in the form of design aids, indications for the most convenient design procedures and worked examples. All of the individual guides work in conjunction with the Designers' Guide to EN1990 Eurocode: Basis of Structural

Design. An Original Source of Expressions and Tools for the Design of Concrete Elements with Eurocode Seismic design of concrete buildings needs to be performed to a strong and recognized standard. Eurocode 8 was introduced recently in the 30 countries belonging to CEN, as part of the suite of Structural Eurocodes, and it represents the first European Standard for seismic design. It is also having an impact on seismic design standards in countries outside Europe and will be applied there for the design of important facilities. This book: Contains the fundamentals of earthquakes and their effects at the ground level, as these are affected by local soil conditions, with particular reference to EC8 rules Provides guidance for the conceptual design of concrete buildings and their foundations for earthquake resistance Overviews and exemplifies linear and nonlinear seismic analysis of concrete buildings for design to EC8 and their modelling Presents the application of the design verifications, member dimensioning and detailing rules of EC8 for concrete buildings, including their foundations Serves as a commentary of the parts of EC8 relevant to concrete buildings and their foundations, supplementing them and explaining their proper application Seismic Design of Concrete Buildings to Eurocode 8 suits graduate or advanced undergraduate students, instructors running courses on seismic design and practicing engineers interested in the sound application of EC8 to concrete buildings. Alongside simpler examples for analysis and detailed design, it includes a comprehensive case study of the conceptual design, analysis and detailed design of a realistic building with six stories above grade and two basements, with a complete structural system of walls and frames. Homework problems are given at the end of some of the chapters. 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. This series of Designers Guides to the Eurocodes provides comprehensive guidance in the form of design aids, indications for the most convenient design procedures and worked examples. All of the individual guides work in conjunction with the Designers' Guide to EN1990 Eurocode: Basis of Structural Design. Reflecting the historic first European seismic code, this professional book focuses on seismic design, assessment and retrofitting of concrete buildings, with thorough reference to, and application of, EN-Eurocode 8. Following the publication of EN-Eurocode 8 in 2004-05, 30 countries are now introducing this European standard for seismic design, for application in parallel with existing national standards (till March 2010) and exclusively after that. Eurocode 8 is also expected to influence standards in countries outside Europe, or at the least, to be applied there for important facilities. Owing to the increasing awareness of the threat posed by existing buildings substandard and deficient buildings and the lack of national or international standards for assessment and retrofitting, its impact in that field is expected to be major. Written by the lead person in the development of the EN-Eurocode 8, the present handbook explains the principles and rationale of seismic design according to modern codes and provides thorough guidance for the conceptual seismic design of concrete buildings and their foundations. It examines the experimental behaviour of concrete members under cyclic loading and modelling for design and analysis purposes; it develops the essentials of linear or nonlinear seismic analysis for the purposes of design, assessment and retrofitting (especially using Eurocode 8); and gives detailed guidance for modelling concrete buildings at the member and at the system level. Moreover, readers gain access to overviews of provisions of Eurocode 8, plus an understanding for them on the basis of the simple models of the element behaviour presented in the book. Also examined are the modern trends in performance- and displacement-based seismic assessment of existing buildings, comparing the relevant provisions of Eurocode 8 with those of new US prestandards, and details of the most common and popular seismic retrofitting techniques for concrete buildings and guidance for retrofitting strategies at the system level. Comprehensive walk-through examples of detailed design elucidate the application of Eurocode 8 to common situations in practical design. Examples and case studies of seismic assessment and retrofitting of a few real buildings are also presented. From the reviews: "This is a massive book that has no equal in the published literature, as far as the reviewer knows. It is dense and comprehensive and leaves nothing to chance. It is certainly taxing on the reader and the potential user, but without it, use of

Eurocode 8 will be that much more difficult. In short, this is a must-read book for researchers and practitioners in Europe, and of use to readers outside of Europe too. This book will remain an indispensable backup to Eurocode 8 and its existing Designers' Guide to EN 1998-1 and EN 1998-5 (published in 2005), for many years to come. Congratulations to the author for a very well planned scope and contents, and for a flawless execution of the plan". AMR S. ELNASHAI "The book is an impressive source of information to understand the response of reinforced concrete buildings under seismic loads with the ultimate goal of presenting and explaining the state of the art of seismic design. Underlying the contents of the book is the in-depth knowledge of the author in this field and in particular his extremely important contribution to the development of the European Design Standard EN 1998 - Eurocode 8: Design of structures for earthquake resistance. However, although Eurocode 8 is at the core of the book, many comparisons are made to other design practices, namely from the US and from Japan, thus enriching the contents and interest of the book".

EDUARDO C. CARVALHO This handbook contains up-to-date existing structures, computer applications, and information on planning, analysis, and design seismic design of wood structures. A new and very useful feature of this edition of earthquake-resistant building structures. Its intention is to provide engineers, architects, is the inclusion of a companion CD-ROM disc developers, and students of structural containing the complete digital version of the handbook itself and the following very engineering and architecture with authoritative, yet practical, design information. It represents important publications: an attempt to bridge the persisting gap between 1. UBC-IBC (1997-2000) Structural advances in the theories and concepts of Comparisons and Cross References, ICBO, earthquake-resistant design and their 2000. implementation in seismic design practice. 2. NEHRP Guidelines for the Seismic The distinguished panel of contributors is Rehabilitation of Buildings, FEMA-273, Federal Emergency Management Agency, composed of 22 experts from industry and universities, recognized for their knowledge and 1997. extensive practical experience in their fields. 3. NEHRP Commentary on the Guidelinesfor They have aimed to present clearly and the Seismic Rehabilitation of Buildings, FEMA-274, Federal Emergency concisely the basic principles and procedures pertinent to each subject and to illustrate with Management Agency, 1997. practical examples the application of these 4. NEHRP Recommended Provisions for principles and procedures in seismic design Seismic Regulations for New Buildings and practice. Where applicable, the provisions of Older Structures, Part 1 - Provisions, various seismic design standards such as mc FEMA-302, Federal Emergency 2000, UBC-97, FEMA-273/274 and ATC-40 Management Agency, 1997. An Original Source of Expressions and Tools for the Design of Concrete Elements with Eurocode Seismic design of concrete buildings needs to be performed to a strong and recognized standard. Eurocode 8 was introduced recently in the 30 countries belonging to CEN, as part of the suite of Structural Eurocodes, and it represents the first European Standard for seismic design. It is also having an impact on seismic design standards in countries outside Europe and will be applied there for the design of important facilities. This book: Contains the fundamentals of earthquakes and their effects at the ground level, as these are affected by local soil conditions, with particular reference to EC8 rules Provides guidance for the conceptual design of concrete buildings and their foundations for earthquake resistance Overviews and exemplifies linear and nonlinear seismic analysis of concrete buildings for design to EC8 and their modelling Presents the application of the design verifications, member dimensioning and detailing rules of EC8 for concrete buildings, including their foundations Serves as a commentary of the parts of EC8 relevant to concrete buildings and their foundations, supplementing them and explaining their proper application Seismic Design of Concrete Buildings to Eurocode 8 suits graduate or advanced undergraduate students, instructors running courses on seismic design and practicing engineers interested in the sound application of EC8 to concrete buildings. Alongside simpler examples for analysis and detailed design, it includes a comprehensive case study of the conceptual design, analysis and detailed design of a realistic building with six stories above grade and two basements, with a complete structural system of walls and frames. Homework problems are given at the end of some of the chapters. Earthquake-resistant design, Structures, Structural design, Seismology, Structural systems, Buildings,

Seismic coefficient, Seismic loading, Earthquakes, Stability, Repair, Design calculations, Mathematical calculations, Ductility, Mechanical properties of materials, Strength of materials, Stiffness, Laboratory testing, Building maintenance, Concretes, Structural timber, Damage, Masonry work, Steels, Safety measures Seismic Design and Analysis of Tanks A detailed view on the effects of seismic activity on tank structures As the use of above-ground and underground storage tanks (ASTs and USTs) continues to grow—with approximately 545,000 in the USA alone—the greatest threat to ASTs and USTs is earthquakes, causing the contamination of groundwater, a vital source of drinking water throughout the world. These tanks suffer a great deal of strain during an earthquake, as a complicated pattern of stress affects them, such that poorly designed tanks have leaked, buckled, or even collapsed during seismic events. Furthermore, in oil and gas industrial plants, the risk of damage is even more critical due to the effects of explosion, collapse, and air or soil contamination by chemical fluid spillages. Seismic Design and Analysis of Tanks provides the first in-depth discussion of the principles and applications of shell structure design and earthquake engineering analyses focused on tank structures, and it explains how these methodologies can help prevent the destruction of ASTs and USTs during earthquakes. Providing a thorough examination of the design, analysis, and performance of steel, reinforced concrete, and precast tanks, this book takes a look at tanks that are above-ground, underground, or elevated, anchored and unanchored, and rigid or flexible, and evaluates the efficacy of each method during times of seismic shaking—and it does so without getting bogged down in impenetrable mathematics and theory. Seismic Design and Analysis of Tanks readers will also find: A global approach to the best analytical and practical solutions available in each region: discussion of the latest US codes and standards from the American Society of Civil Engineers (ACSE 7), the American Concrete Institute (ACI 350,3, 371.R), the American Water Works Association (AWWA D100, D110, D115), and the American Petroleum Institute (API 650) an overview of the European codes and standards, including Eurocode 8-4 and CEN-EN 14015 Hundreds of step-by-step equations, accompanied by illustrations Photographs illustrating real-world damage to tanks caused by seismic events Perfect for practising structural engineers, geotechnical engineers, civil engineers, and engineers of all kinds who are responsible for the design, analysis, and performance of tanks and their foundations—as well as students studying engineering—Seismic Design and Analysis of Tanks is a landmark text, the first work of its kind to deal with the seismic engineering performance of all types of storage tanks. This book focuses on the seismic design of building structures and their foundations to Eurocode 8. It covers the principles of seismic design in a clear but brief manner and then links these concepts to the provisions of Eurocode 8. It addresses the fundamental concepts related to seismic hazard, ground motion models, basic dynamics, seismic analysis, siting considerations, structural layout, and design philosophies, then leads to the specifics of Eurocode 8. Code procedures are applied with the aid of walk-through design examples which, where possible, deal with a common case study in most chapters. As well as an update throughout, this second edition incorporates three new and topical chapters dedicated to specific seismic design aspects of timber buildings and masonry structures, as well as base-isolation and supplemental damping. There is renewed interest in the use of sustainable timber buildings, and masonry structures still represent a popular choice in many areas. Moreover, seismic isolation and supplemental damping can offer low-damage solutions which are being increasingly considered in practice. The book stems primarily from practical short courses on seismic design which have been run over a number of years and through the development Eurocode 8. The contributors to this book are either specialist academics with significant consulting experience in seismic design, or leading practitioners who are actively engaged in large projects in seismic areas. This experience has provided significant insight into important areas in which guidance is required. fib Bulletin 69 illustrates and compares major buildings seismic codes applied in the different Continents, namely U.S., Japan, New Zealand, Europe, Canada, Chile and Mexico. Bulletin 69 was prepared by Task Group 7.6 of fib Commission 7, under the leadership of the late Professor Robert (Bob) Park which, in tandem with Professor Paulay, had developed in the seventies new fundamental design concepts, most notably capacity design approach and structural design for ductility,

that had made the NZ seismic Code the most advanced one of the time. This new approach has highly influenced the development of Eurocode 8, to which Bob Park has significantly contributed. Bob Park was also well informed of the situation in Japan, USA, Canada and South America. Such a wide view is reflected in Bulletin 69 showing similarities and differences among the major seismic codes, accompanied as far as possible by comments, hopefully useful for fostering international harmonization. A comprehensive summary of the major codes is provided in the first chapter of the bulletin. All codes are separately presented according to a common framework: an introduction section, which describes the history, the philosophy, the process development, the performance-based criteria, the strength of materials and the incorporation of strength reduction factors of each code; a second section devoted to the demand side, which specifies the seismic design actions and associated criteria of each code for areas of different seismicity and for structures with different ductility properties/requirements; a third section devoted to the capacity side, which describes the capacities of members and joints and associated criteria of each code, including member strengths in flexure, shear and bars anchorage, desirable hierarchies of strength attainment, deformation capacities of mechanisms of inelastic deformation, detailing of beams, columns and structural walls, detailing of beam-column joints for shear and the detailing of diaphragms. The second chapter is devoted to the comparison of the more significant issues dealt in the considered codes. This includes: seismic design actions and associated criteria, capacity design practice, beams, columns, confinement, structural walls and joints. It is felt that fib Bulletin 69 represents a useful, unique instrument for rapidly gaining an overview of the distinguishing features of the major world codes, under both their conceptual framework and application rules. This book collects 5 keynote and 15 topic lectures presented at the 2nd European Conference on Earthquake Engineering and Seismology (2ECEES), held in Istanbul, Turkey, from August 24 to 29, 2014. The conference was organized by the Turkish Earthquake Foundation - Earthquake Engineering Committee and Prime Ministry, Disaster and Emergency Management Presidency under the auspices of the European Association for Earthquake Engineering (EAEE) and European Seismological Commission (ESC). The book's twenty state-of-the-art papers were written by the most prominent researchers in Europe and address a comprehensive collection of topics on earthquake engineering, as well as interdisciplinary subjects such as engineering seismology and seismic risk assessment and management. Further topics include engineering seismology, geotechnical earthquake engineering, seismic performance of buildings, earthquake-resistant engineering structures, new techniques and technologies and managing risk in seismic regions. The book also presents the Third Ambraseys Distinguished Award Lecture given by Prof. Robin Spence in honor of Prof. Nicholas N. Ambraseys. The aim of this work is to present the state-of-the-art and latest practices in the fields of earthquake engineering and seismology, with Europe's most respected researchers addressing recent and ongoing developments while also proposing innovative avenues for future research and development. Given its cutting-edge content and broad spectrum of topics, the book offers a unique reference guide for researchers in these fields. Audience: This book is of interest to civil engineers in the fields of geotechnical and structural earthquake engineering; scientists and researchers in the fields of seismology, geology and geophysics. Not only scientists, engineers and students, but also those interested in earthquake hazard assessment and mitigation will find in this book the most recent advances. Geotechnical engineering is now a fundamental component of construction projects. The third volume of this book is its backbone, dedicated to foundations for civil and industrial construction projects. Applied Geotechnics for Construction Projects 3 first presents the basic theoretical principles and rules governing the designing and validation of foundations; shallow, semi-deep and deep, then presents real foundation projects with a detailed comparison of the approaches and methods of calculating foundations in relation to the reference systems and rules in force, closely compared to and validated by the Eurocodes. The third chapter presents examples of foundation projects, covering high-side building rafts, strip footings, piles and embankments, enriched by an unprecedented level of experience in the field of foundations for civil and industrial construction projects. It ends with examples of damage to foundations and practical appendices. Each chapter of this third volume is

illustrated with photographs and measurements of construction sites and is built on both theory and experience in the field of foundations as a whole. The result is a combination of geotechnical expertise and lessons learned from experience, both of which are highly valuable in the field of applied geotechnics for construction projects. Outstanding advances have been achieved on Earthquake Geotechnical Engineering and Microzonation in the last decade mostly due to the increase in the recorded instrumental in-situ data and large number of case studies conducted in analyzing the observed effects during the recent major earthquakes. During the 15th International Conference on Soil Mechanics and Geotechnical Engineering held in Istanbul in August 2001, the Technical Committee of Earthquake Geotechnical Engineering, (TC4) of the International Society of Soil Mechanics and Geotechnical Engineering organised a regional seminar on Geotechnical Earthquake Engineering and Microzonation where an effort has been made to present the recent advances in the field by eminent scientists and researchers. The book idea was first suggested by the participants of this seminar. The purpose of this book as well as of the seminar was to present the broad spectrum of earthquake geotechnical engineering and seismic microzonation including strong ground motion, site characterisation, site effects, liquefaction, seismic microzonation, solid waste landfills and foundation engineering. The subject matter requires multidisciplinary input from different fields of engineering seismology, soil dynamics, geotechnical and structural engineering. The chapters in this book are prepared by some of the distinguished lecturers who took part in the seminar supplemented with contributions of few distinguished experts in the field of earthquake geotechnical engineering. The editor would like to express his gratitude to all authors for their interest and efforts in preparing their manuscripts. Without their enthusiasm and support, it would not have been possible to complete this book. An international team of experts has joined forces to produce the Bridge Engineering Handbook. They address all facets-the planning, design, inspection, construction, and maintenance of a variety of bridge structures-creating a must-have resource for every bridge engineer. This unique, comprehensive reference provides the means to review standard practices and keep abreast of new developments and state-of-the-art practices. Comprising 67 chapters in seven sections, the authors present: Fundamentals: Provides the basic concepts and theory of bridge engineering Superstructure Design: Discusses all types of bridges Substructure Design: Addresses columns, piers, abutments, and foundations Seismic Design: Presents the latest in seismic bridge design Construction and Maintenance: Focuses on the practical issues of bridge structures Special Topics: Offers new and important information and unique solutions Worldwide Practice: Summarizes bridge engineering practices around the world. Discover virtually all you need to know about any type of bridge: Reinforced, Segmental, and Prestressed Concrete Steel beam and plate girder Steel box girder Orthotropic deck Horizontally curved Truss Arch Suspension Cable-stayed Timber Movable Floating Railroad Special attention is given to rehabilitation, retrofit, and maintenance, and the Bridge Engineering Handbook offers over 1,600 tables, charts, and illustrations in ready-to-use format. An abundance of worked-out examples give readers step-by-step design procedures and the section on Worldwide Practice provides a broad and valuable perspective on the "big picture" of bridge engineering. This book aims to serve as an essential reference to facilitate civil engineers involved in the design of new conventional (ordinary) reinforced concrete (R/C) buildings regulated by the current European EC8 (EN 1998-1:2004) and EC2 (EN 1992-1-1:2004) codes of practice. The book provides unique step-by-step flowcharts which take the reader through all the required operations, calculations, and verification checks prescribed by the EC8 provisions. These flowcharts are complemented by comprehensive discussions and practical explanatory comments on critical aspects of the EC8 code-regulated procedure for the earthquake resistant design of R/C buildings. Further, detailed analysis and design examples of typical multi-storey three-dimensional R/C buildings are included to illustrate the required steps for achieving designs of real-life structures which comply with the current EC8 provisions. These examples can be readily used as verification tutorials to check the reliability of custom-made computer programs and of commercial Finite Element software developed/used for the design of earthquake resistant R/C buildings complying with the EC8 (EN 1998-1:2004) code. This book will

be of interest to practitioners working in consulting and designing engineering companies and to advanced undergraduate and postgraduate level civil engineering students attending courses and curricula in the earthquake resistant design of structures and/or undertaking pertinent design projects. This comprehensive and up-to-date reference work and resource book covers state-of-the-art and state-of-the-practice for bridge engineering worldwide. Countries covered include Canada and the United States in North America; Argentina and Brazil in South America; Bosnia, Bulgaria, Croatia, Czech Republic, Denmark, Finland, France, Greece, Macedonia, Poland, Russia, Serbia, Slovakia, and Ukraine in the European continent; China, Indonesia, Japan, Chinese Taipei, and Thailand in Asia; and Egypt, Iran, and Turkey in the Middle East. The book examines the use of different materials for each region, including stone, timber, concrete, steel, and composite. It examines various bridge types, including slab, girder, segmental, truss, arch, suspension, and cable-stayed. A color insert illustrates select landmark bridges. It also presents ten benchmark comparisons for highway composite girder design from different countries; the highest bridges; the top 100 longest bridges, and the top 20 longest bridge spans for various bridge types including suspension, cable-stayed, extradosed, arch, girder, movable bridges (vertical lift, swing, and bascule), floating, stress ribbon, and timber; and bridge construction methods. 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. This guide focuses specifically on EN 1998-2 (Eurocode 8. Part 2 Bridges), the design standard for use in the seismic design of bridges in which horizontal seismic actions are mainly resisted through bending of the piers or at the abutments; however it can also be applied to the seismic design of cable-stayed and arched bridges. This book collects 5 keynote and 15 topic lectures presented at the 2nd European Conference on Earthquake Engineering and Seismology (2ECEES), held in Istanbul, Turkey, from August 24 to 29, 2014. The conference was organized by the Turkish Earthquake Foundation - Earthquake Engineering Committee and Prime Ministry, Disaster and Emergency Management Presidency under the auspices of the European Association for Earthquake Engineering (EAEE) and European Seismological Commission (ESC). The book's twenty state-of-the-art papers were written by the most prominent researchers in Europe and address a comprehensive collection of topics on earthquake engineering, as well as interdisciplinary subjects such as engineering seismology and seismic risk assessment and management. Further topics include engineering seismology, geotechnical earthquake engineering, seismic performance of buildings, earthquake-resistant engineering structures, new techniques and technologies and managing risk in seismic regions. The book also presents the Third Ambraseys Distinguished Award Lecture given by Prof. Robin Spence in honor of Prof. Nicholas N. Ambraseys. The aim of this work is to present the state-of-the art and latest practices in the fields of earthquake engineering and seismology, with Europe's most respected researchers addressing recent and ongoing developments while also proposing innovative avenues for future research and development. Given its cutting-edge content and broad spectrum of topics, the book offers a unique reference guide for researchers in these fields. Audience: This book is of interest to civil engineers in the fields of geotechnical and structural earthquake engineering; scientists and researchers in the fields of seismology, geology and geophysics. Not only scientists, engineers and students, but also those interested in earthquake hazard assessment and mitigation will find in this book the most recent advances.

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