

# Earthquake geotechnical engineering practice

## Module 4. Earthquake resistant foundation design

November 2021



# Earthquake Geotechnical Engineering Design Geotechnical Geological And Earthquake Engineering

**Alper Ilki, Michael N. Fardis**



## **Earthquake Geotechnical Engineering Design Geotechnical Geological And Earthquake Engineering:**

**Earthquake Geotechnical Engineering Design** Michele Maugeri, Claudio Soccodato, 2014-02-03 Pseudo static analysis is still the most used method to assess the stability of geotechnical systems that are exposed to earthquake forces However this method does not provide any information about the deformations and permanent displacements induced by seismic activity Moreover it is questionable to use this approach when geotechnical systems are affected by frequent and rare seismic events Incidentally the peak ground acceleration has increased from 0.2-0.3 g in the seventies to the current value of 0.6-0.8 g Therefore a shift from the pseudo static approach to performance based analysis is needed Over the past five years considerable progress has been made in Earthquake Geotechnical Engineering Design EGED The most recent advances are presented in this book in 6 parts The evaluation of the site amplification is covered in Part I of the book In Part II the evaluation of the soil foundation stability against natural slope failure and liquefaction is treated In the following 3 Parts of the book the EGED for different geotechnical systems is presented as follows the design of levees and dams including natural slopes in Part III the design of foundations and soil structure interaction analysis in Part IV underground structures in Part V Finally in Part VI new topics like the design of reinforced earth retaining walls and landfills are covered *Earthquake Geotechnical Engineering* Kyriazis D. Pitilakis, 2007-06-14 This book contains the full papers on which the invited lectures of the 4th International Conference on Geotechnical Earthquake Engineering 4ICEGE were based The conference was held in Thessaloniki Greece from 25 to 28 June 2007 The papers offer a comprehensive overview of the progress achieved in soil dynamics and geotechnical earthquake engineering examine ongoing and unresolved issues and discuss ideas for the future

**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 **Proceedings of the 4th International Conference on**

**Performance Based Design in Earthquake Geotechnical Engineering (Beijing 2022)** Lanmin Wang, Jian-Min Zhang, Rui Wang, 2022-09-19 The 4th International Conference on Performance based Design in Earthquake Geotechnical Engineering PBD IV is held in Beijing China The PBD IV Conference is organized under the auspices of the International Society of Soil Mechanics and Geotechnical Engineering Technical Committee TC203 on Earthquake Geotechnical Engineering and Associated Problems ISSMGE TC203 The PBD I PBD II and PBD III events in Japan 2009 Italy 2012 and Canada 2017 respectively were highly successful events for the international earthquake geotechnical engineering community The PBD events have been excellent companions to the International Conference on Earthquake Geotechnical Engineering ICEGE series that TC203 has held in Japan 1995 Portugal 1999 USA 2004 Greece 2007 Chile 2011 New Zealand 2015 and Italy 2019 The goal of PBD IV is to provide an open forum for delegates to interact with their international colleagues and advance performance based design research and practices for earthquake geotechnical engineering

*Developments in Earthquake Geotechnics* Susumu Iai, 2017-10-17 This book provides a timely review and summary of the recent advances in state of the art earthquake geotechnics The earthquake disasters in Japan and New Zealand in 2011 prompted the urgent need for the state of the art earthquake geotechnics to be put into practice for disaster mitigation By reviewing the developments in earthquake geotechnics over more than half a century this unique book enables readers to obtain solid grasp of this discipline It is based on contributions from 18 leading international experts who met in Kyoto in June 2016 to discuss a range of issues related to the developments of earthquake geotechnics It comprehensively discusses various areas of earthquake geotechnics including performance based seismic design the evolution of geotechnical seismic response analysis from 1964 2015 countermeasures against liquefaction solutions for nuclear power plant disasters the tsunami caused inundation of the Tokyo metropolitan area and a series of state of the art effective stress analyses of case histories from the 2011 East Japan Earthquake The book is of interest to advanced level researchers and practicing engineers in the field of earthquake geotechnics

*Recent Advances in Earthquake Engineering in Europe* Kyriazis Pitilakis, 2018-04-24 This book is a collection of invited lectures including the 5th Nicholas Ambraseys distinguished lecture four keynote lectures and twenty two thematic lectures presented at the 16th European Conference on Earthquake Engineering held in Thessaloniki Greece in June 2018 The lectures are put into chapters written by the most prominent internationally recognized academics scientists engineers and researchers in Europe They address a comprehensive collection of state of the art and cutting edge topics in earthquake engineering engineering seismology and seismic risk assessment and management The book is of interest to civil engineers engineering seismologists seismic risk managers policymakers and consulting companies covering a wide spectrum of fields from geotechnical and structural earthquake engineering to engineering seismology and seismic risk assessment and management Scientists professional engineers researchers civil protection policymakers and students interested in the seismic design of civil engineering structures and

infrastructures hazard and risk assessment seismic mitigation policies and strategies will find in this book not only the most recent advances in the state of the art but also new ideas on future earthquake engineering and resilient design of structures Chapter 1 of this book is available open access under a CC BY 4.0 license Geotechnical Earthquake Engineering Milutin Srbulov, 2008-09-19 Included on the Choice list with the outstanding academic Earth Sciences titles 2008 This volume describes simplified dynamic analyses that bridge the gap between the rather limited provisions of design codes and the rather eclectic methods used in sophisticated analyses Graphs and spreadsheets are included for the ease and speed of use of simplified analyses of soil slope in stability and displacements caused by earthquakes sand liquefaction and flow caused by earthquakes dynamic soil foundation interaction bearing capacity and additional settlement of shallow foundations earthquake motion effects on tunnels and shafts frequent liquefaction potential mitigation measures A number of comments on the assumptions used in different methods limitation and factors affecting the results are given Several case histories are also included in the appendices in order to assess the accuracy and usefulness of the simplified methods Audience This work is of interest to geotechnical engineers engineering geologists earthquake engineers and students *Special Topics in Earthquake Geotechnical Engineering* Mohamed A. Sakr, Atilla Ansal, 2012-02-27 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 **Seismic Design**

**Methods for Steel Building Structures** George A. Papagiannopoulos, George D. Hatzigeorgiou, Dimitri E.

Beskos, 2022-01-01 The book after two introductory chapters on seismic design principles and structural seismic analysis methods proceeds with the detailed description of seismic design methods for steel building structures These methods include all the well known methods like force based or displacement based methods plus some other methods developed by the present authors or other authors that have reached a level of maturity and are applicable to a large class of steel building structures For every method detailed practical examples and supporting references are provided in order to illustrate the methods and demonstrate their merits As a unique feature the present book describes not just one as it is the case with existing books on seismic design of steel structures but various seismic design methods including application examples worked in detail The book is a valuable source of information not only for MS and PhD students but also for researchers and practicing engineers engaged with the design of steel building structures **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.

Seismic Behaviour and Design of Irregular and Complex Civil Structures III Dietlinde Köber, Mario De Stefano, Zbigniew Zembaty, 2020-03-06 This book presents state of the art knowledge on problems of the effects of structural irregularities on their seismic response. It also covers specific spatial and rotational seismic loads on these structures. Rapid progress in respective research on irregular structures and unconventional seismic loads requires prompt updates of the state of the art in this area. These problems are of particular interest to both researchers and practitioners because these are non-conservative effects compared with the approach of the traditional seismic design, e.g. Eurocode 8 Uniform Building Code etc. This book will be of particular interest to researchers, PhD students and engineers dealing with design of structures under seismic excitations.

Experimental Research in Earthquake Engineering Fabio Taucer, Roberta Apostolska, 2015-04-20 In this volume top seismic experts and researchers from Europe and around the world, including the George E. Brown, Jr. Network for Earthquake Engineering Simulation (NEES) in the USA, present the most recent outcome of their work in experimental testing as well as the results of the transnational access activities of external researchers who have used Europe's seven largest and most advanced seismic testing facilities in the framework of the Seismic Engineering Research Infrastructures for European Synergies (SERIES) Project, financed by the European Commission in its 7th Framework Programme (2007-2013). This includes EU's largest reaction wall facility, EU's four largest shaking table laboratories and its two major centrifuges. The work presented includes state of the art research towards the seismic design assessment and retrofitting of structures as well as the development of innovative research toward new fundamental technologies and techniques promoting efficient and joint

use of the research infrastructures The contents of this volume demonstrate the fruits of the effort of the European Commission in supporting research in earthquake engineering

**Earthquake Engineering in Europe** Mihail Garevski, Atilla Ansal, 2010-08-05 This book contains 9 invited keynote and 12 theme lectures presented at the 14th European Conference on Earthquake Engineering 14ECEE held in Ohrid Republic of Macedonia from August 30 to September 3 2010 The conference was organized by the Macedonian Association for Earthquake Engineering MAEE under the auspices of European Association for Earthquake Engineering EAE The book is organized in twenty one state of the art papers written by carefully selected very eminent researchers mainly from Europe but also from USA and Japan The contributions provide a very comprehensive collection of topics on earthquake engineering as well as interdisciplinary subjects such as engineering seismology and seismic risk assessment and management Engineering seismology geotechnical earthquake engineering seismic performance of buildings earthquake resistant engineering structures new techniques and technologies and managing risk in seismic regions are all among the different topics covered in this book The book also includes the First Ambraseys Distinguished Award Lecture given by Prof Theo P Tassios in the honor of Prof Nicholas N Ambraseys The aim is to present the current state of knowledge and engineering practice addressing recent and ongoing developments while also projecting innovative ideas for future research and development It is not always possible to have so many selected manuscripts within the broad spectrum of earthquake engineering thus the book is unique in one sense and may serve as a good reference book for researchers in this field Audience This book will be 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

**Seismic Behaviour and Design of Irregular and Complex Civil Structures IV** Rita Bento, Mario De Stefano, Dietlinde Köber, Zbigniew Zembaty, 2022-01-18 This volume contains papers of the 9th European Workshop on the Seismic Behaviour of Irregular and Complex Structures 9EWICS held in Lisbon Portugal in 2020 This workshop organized at Instituto Superior Técnico University of Lisbon continued the successful three annual series of workshops started back in 1996 Its organization had the sponsorship of Working Group 8 Seismic Behaviour of Irregular and Complex Structures of the European Association of Earthquake Engineering This international event provided a platform for discussion and exchange of ideas and unveiled new insights on the possibilities and challenges of irregular and complex structures under seismic actions The topics addressed include criteria for regularity seismic design of irregular structures seismic assessment of irregular and complex structures retrofit of irregular and complex structures and soil structure interaction for irregular and complex structures Beyond an excellent number of interesting papers on these topics this volume includes the papers of the two invited lectures one devoted to irregularities in RC buildings including perspectives in current seismic design codes difficulties in their application and further research needs and another one

dedicated to the challenging and very up to date topic in the area of seismic response of masonry building aggregates in historical centers This volume includes 26 contributions from authors of 11 countries giving a complete and international view of the problem The holds particular interest for all the community involved in the challenging task of seismic design assessment and or retrofit of irregular and complex structures

**Geotechnical Predictions and Practice in Dealing with Geohazards** Jian Chu,Sri P.R. Wardani,Atsushi Iizuka,2013-06-12 The recent earthquake disasters in Japan and a series of other disasters in the world have highlighted again the need for more reliable geotechnical prediction and better methods for geotechnical design and in particular dealing with geohazards This book provides a timely review and summaries of the recent advances in theories analyses and methods for geotechnical predictions and the most up to date practices in geotechnical engineering and particularly in dealing with geohazards A special section on the geotechnical aspects of the recent Tohoku earthquake disaster in Japan is also presented in this book Key Features This book is written by a group of internationally renowned researchers and practioners to honour and mark the 40 years contribution of one of the greatest educators researchers and engineers in the world Professor Hideki Ohta to geotechnical engineering Professor Ohta is presently professor at Chou University after his retirement from Tokyo Institute of Technology Japan The book provides some first hand information on the 2011 Tohuko earthquake disasters in Japan the most recent update on the theories and methods for geotechnical analyses and predictions and the latest methods and practices in geotechnical engineering in particular dealing with geotechnical hazard It is a rare occasion for some 30 plus international authorities to write on their best topic that they have been working on for years The book is a must have collection for any libraries and professionals in geotechnical engineering

*Introduction to Dynamics of Structures and Earthquake Engineering* Gian Paolo Cimellaro,Sebastiano Marasco,2018-03-26 This work is an elementary but comprehensive textbook which provides the latest updates in the fields of Earthquake Engineering Dynamics of Structures Seismology and Seismic Design introducing relevant new topics to the fields such as the Neodeterministic method Its main purpose is to illustrate the application of energy methods and the analysis in the frequency domain with the corresponding visualization in the Gauss Argant plan However emphasis is also given to the applications of numerical methods for the solution of the equation of motion and to the ground motion selection to be used in time history analysis of structures As supplementary materials this book provides OPENSIGNAL a rare and unique software for ground motion selection and processing that can be used by professionals to select the correct earthquake records that would run in the nonlinear analysis The book contains clear illustrations and figures to describe the subject in an intuitive way It uses simple language and terminology and the math is limited only to cases where it is essential to understand the physical meaning of the system Therefore it is suitable also for those readers who approach these subjects for the first time and who only have a basic understanding of mathematics linear algebra and static analysis of structures

Handbook on Tunnels and Underground Works Emilio Bilotta,Renato Casale,Claudio Giulio di



Prisco,Salvatore Miliziano,Daniele Peila,Andrea Pigorini,Enrico Maria Pizzarotti,2022-02-22 The book provides a new global updated thorough clear and practical risk based approach to tunnelling design and construction methods and discusses detailed examples of solutions applied to relevant case histories It is organized in three sequential and integrated volumes Volume 1 Concept Basic Principles of Design Volume 2 Construction Methods Equipment Tools and Materials Volume 3 Case Histories and Best Practices The book covers all aspects of tunnelling giving useful and practical information about design Volume 1 construction Volume 2 and best practices Volume 3 It provides the following features and benefits updated vision on tunnelling design tools materials and construction balanced mix of theory technology and applied experience different and harmonized points of view from academics professionals and contractors easy consultation in the form of a handbook risk oriented approach to tunnelling problems The tunnelling industry is amazingly widespread and increasingly important all over the world particularly in developing countries The possible audience of the book are engineers geologists designers constructors providers contractors public and private customers and in general technicians involved in the tunnelling and underground works industry It is also a suitable source of information for industry professionals senior undergraduate and graduate students researchers and academics

**Geotechnical Earthquake Engineering** Steven L. Kramer,Jonathan P. Stewart,2024-11-29 This fully updated second edition provides an introduction to geotechnical earthquake engineering for first year graduate students in geotechnical or earthquake engineering graduate programs with a level of detail that will also be useful for more advanced students as well as researchers and practitioners It begins with an introduction to seismology and earthquake ground motions then presents seismic hazard analysis and performance based earthquake engineering PBEE principles Dynamic soil properties pertinent to earthquake engineering applications are examined both to facilitate understanding of soil response to seismic loads and to describe their practical measurement as part of site characterization These topics are followed by site response and its analysis and soil structure interaction Ground failure in the form of soil liquefaction cyclic softening surface fault rupture and seismically induced landslides are also addressed and the book closes with a chapter on soil improvement and hazard mitigation The first edition has been widely used around the world by geotechnical engineers as well as many seismologists and structural engineers The main text of this book and the four appendices Cover fundamental concepts in applied seismology geotechnical engineering and structural dynamics Contain numerous references for further reading allowing for detailed exploration of background or more advanced material Present worked example problems that illustrate the application of key concepts emphasized in the text Include chapter summaries that emphasize the most important points Present concepts of performance based earthquake engineering with an emphasis on uncertainty and the types of probabilistic analyses needed to implement PBEE in practice Present a broad interdisciplinary narrative drawing from the fields of seismology geotechnical engineering and structural engineering to facilitate holistic understanding of how geotechnical earthquake engineering is applied in seismic hazard and risk analyses

and in seismic design      *Perspectives on European Earthquake Engineering and Seismology* Atilla Ansal, 2015-08-28 This book collects 4 keynote and 15 theme 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 EAE and European Seismological Commission ESC The book's nineteen state of the art chapters 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 First Professor Inge Lehmann Distinguished Award Lecture given by Prof Shamita Das in honor of Prof Dr Inge Lehmann 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      *Seismic Evaluation and Rehabilitation of Structures* Alper Ilki, Michael N. Fardis, 2013-08-15 In the past facilities considered to be at the end of their useful life were demolished and replaced with new ones that better met the functional requirements of modern society including new safety standards Humankind has recently recognised the threats to the environment and to our limited natural resources due to our relentless determination to destroy the old and build anew With the awareness of these constraints and the emphasis on sustainability in future the majority of old structures will be retrofitted to extend their service life as long as feasible In keeping with this new approach the EU's Construction Products Regulation 305/2011 which is the basis of the Eurocodes included the sustainable use of resources as an Essential Requirement for construction So the forthcoming second generation of EN Eurocodes will cover not only the design of new structures but the rehabilitation of existing ones as well Most of the existing building stock and civil infrastructures are seismically deficient When the time comes for a decision to prolong their service life with the help of structural and architectural upgrading seismic retrofitting may be needed Further it is often decided to enhance the earthquake resistance of facilities that still meet their functional requirements and fulfil their purpose if they are not earthquake safe In order to decide how badly a structure needs seismic upgrading or to prioritise it in a population of structures a seismic evaluation is

needed which also serves as a guide for the extent and type of strengthening Seismic codes do not sufficiently cover the delicate phase of seismic evaluation nor the many potential technical options for seismic upgrading therefore research is on going and the state of the art is constantly evolving All the more so as seismic evaluation and rehabilitation demand considerable expertise to make best use of the available safety margins in the existing structure to adapt the engineering capabilities and techniques at hand to the particularities of a project to minimise disruption of use etc Further as old structures are very diverse in terms of their materials and layout seismic retrofitting does not lend itself to straightforward codified procedures or cook book approaches As such seismic evaluation and rehabilitation need the best that the current state of the art can offer on all aspects of earthquake engineering This volume serves this need as it gathers the most recent research of top seismic experts from around the world on seismic evaluation retrofitting and closely related subjects

Immerse yourself in heartwarming tales of love and emotion with Crafted by is touching creation, Experience Loveis Journey in **Earthquake Geotechnical Engineering Design Geotechnical Geological And Earthquake Engineering** . This emotionally charged ebook, available for download in a PDF format ( PDF Size: \*), is a celebration of love in all its forms. Download now and let the warmth of these stories envelop your heart.

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