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CPT-Based Probabilistic and Deterministic Assessment of In Situ Seismic Soil Liquefaction Potential. R. E. S. Moss, M.ASCE1; R. B. Seed, M.ASCE2; R. E. Kayen, M.ASCE3; J. P. Stewart, M.ASCE4; A. Der Kiureghian, M.ASCE5; and K. O. Cetin, M.ASCE6. Abstract: This paper presents a complete methodology for both probabilistic and deterministic assessment of seismic soil liquefaction triggering potential based on the cone penetration test CPT .

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and deterministic assessment of seismic soil liquefaction triggering potential based on the cone penetration test (CPT). A comprehensive worldwide set of CPT-based liquefaction field case histories were compiled and back analyzed, and the data then used to develop probabilistic triggering correlations.

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potential based on the cone penetration test CPT. A comprehensive worldwide set of CPT-based liquefaction field

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Abstract This research provides two probabilistic and deterministic methods to assess the liquefaction potential based on the piezocone (CPTu), and then a procedure is proposed to develop the seismic fragility curves of soil liquefaction. For this purpose, a reliable liquefaction case history dataset based on CPT and CPTu tests is

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compiled.

~~Probabilistic and Deterministic Assessment of Liquefaction ...~~

A novel probabilistic method is developed in this paper for properly accounting for the uncertainty associated with CPT-based subsurface soil classification and stratification. The method properly classifies and stratifies subsurface soils in a 2D vertical cross-section from limited CPT soundings.

~~Probabilistic soil classification and stratification in a ...~~

The factor of safety against liquefaction is obtained from SPT and CPT-based simplified procedures. The pre-treatment subsurface penetration data plotted to the left of the recommended deterministic and probabilistic liquefaction triggering threshold,

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whereas the post-treatment data plotted on the right of the boundary curve.

~~Verifying liquefaction remediation beneath an earth dam ...~~

Two methods presented here are the Deterministic Approach proposed by Robertson and Wride (1998), and the Probabilistic Approach proposed by Moss and co-workers. Case study of the liquefaction potential evaluation is done for the Golem area, where geotechnical data from CPTU test were collected.

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This volume comprises select papers presented during the Indian Geotechnical Conference 2018. This volume discusses concepts of soil dynamics and studies related to earthquake geotechnical engineering, slope stability, and landslides. The papers presented in this volume analyze failures connected to geotechnical and geological origins to improve professional practice, codes of analysis and design. This volume will prove useful to researchers and practitioners alike.

This book deals with the attempts made by the scientists, researchers and practitioners to address different emerging issues in transportation and geotechnical engineering. Papers focus on the following: (i) polymer-based dust suppressant, (ii) cement concrete materials, (iii) pavement preservation techniques, (iv) frost front in

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a cold-region circular tunnel, (v) metro station in non-cemented soil, (vi) seismic-liquefaction, (vii) mechanical responses of asphalt pavement at bridge approach, (viii) warm mix asphalt, and (ix) behavior of pile foundation. This volume is useful for the researchers and practitioners who work in the area transportation and geotechnical engineering. Papers were selected from the 5th GeoChina International Conference 2018 – Civil Infrastructures Confronting Severe Weathers and Climate Changes: From Failure to Sustainability, held on July 23 to 25, 2018 in HangZhou, China.

There are many regions worldwide which are susceptible to extreme loads such as earthquakes. These can cause loss of life and adverse impacts on civil infrastructures, the environment, and communities. A series of methods and measures have been used to mitigate the

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effects of these extreme loads. The adopted approaches and methods must enable civil structures to be resilient and sustainable. Therefore, to reduce damage and downtime in addition to protecting life and promoting safety, new resilient structure technologies must be proposed and developed. This special issue book focuses on methods of enhancing the sustainability and resilience of civil infrastructures in the event of extreme loads (e.g., earthquakes). This book contributes proposals of and theoretical, numerical, and experimental research on new and resilient civil structures and their structural performance under extreme loading events. These works will certainly play a significant role in promoting the application of new recoverable structures. Moreover, this book also introduces some case studies discussing the implementation of low-damage structural systems in buildings as well as articles on the

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development of design philosophies and performance criteria for resilient buildings and new sustainable communities.

This book contains the best contributions presented during the 6th National Conference on Earthquake Engineering and the 2nd National Conference on Earthquake Engineering and Seismology - 6CNIS & 2CNISS, that took place on June 14-17, 2017 in Bucharest - Romania, at the Romanian Academy and Technical University of Civil Engineering of Bucharest. The book offers an updated overview of seismic hazard and risk assessment activities, with an emphasis on recent developments in Romania, a very challenging case study because of its peculiar intermediate-depth seismicity and evolutive code-compliant building stock. Moreover, the book collects input of renowned scientists and professionals

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from Germany, Greece, Italy, Japan, Netherlands, Portugal, Romania, Spain, Turkey and United Kingdom. The content of the book focuses on seismicity of Romania, geotechnical earthquake engineering, structural analysis and seismic design regulations, innovative solutions for seismic protection of building structures, seismic risk evaluation, resilience-based assessment of structures and management of emergency situations. The sub-chapters consist of the best papers of 6CNIS & 2CNISS selected by the International Advisory and Scientific Committees. The book is targeted at researchers and experts in seismic hazard and risk, evaluation and rehabilitation of buildings and structures, insurers and re-insurers, and decision makers in the field of emergency situations and recovery activities.

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Integrated Disaster Science and Management: Global Case Studies in Mitigation and Recovery bridges the gap between scientific research on natural disasters and the practice of disaster management. It examines natural hazards, including earthquakes, landslides and tsunamis, and uses integrated disaster management techniques, quantitative methods and big data analytics to create early warning models to mitigate impacts of these hazards and reduce the risk of disaster. It also looks at mitigation as part of the recovery process after a disaster, as in the case of the Nepal earthquake. Edited by global experts in disaster management and engineering, the book offers case studies that focus on the critical phases of disaster management. Identifies advanced techniques and models based on natural disaster science for forecasting disasters and analyzing risk Offers a holistic approach to the problem of

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disaster management, including preparation, recovery, and resilience Includes coverage of social, economic, and environmental impacts on disasters

This book offers a broad perspective on important topics in earthquake geotechnical engineering and gives specialists and those that are involved with research and application a more comprehensive understanding about the various topics. Consisting of eighteen chapters written by authors from the most seismic active regions of the world, such as USA, Japan, Canada, Chile, Italy, Greece, Portugal, Taiwan, and Turkey, the book reflects different views concerning how to assess and minimize earthquake damage. The authors, a prominent group of specialists in the field of earthquake geotechnical engineering, are the invited lecturers of the

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International Conference on Earthquake Geotechnical Engineering from Case History to Practice in the honour of Professor Kenji Ishihara held in Istanbul, Turkey during 17-19 June 2013.

Communication of risks within a transparent and accountable framework is essential in view of increasing mobility and the complexity of the modern society and the field of geotechnical engineering does not form an exception. As a result, modern risk assessment and management are required in all aspects of geotechnical issues, such as planning, desi

... "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

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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.

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Soil Liquefaction during Recent Large-Scale Earthquakes contains selected papers presented at the New Zealand Japan Workshop on Soil Liquefaction during Recent Large-Scale Earthquakes (Auckland, New Zealand, 2-3 December 2013). The 2010-2011 Canterbury earthquakes in New Zealand and the 2011 off the Pacific Coast of Tohoku Earthquake in

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