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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,

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Cetin, M.ASCE6.

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were compiled and
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the data then used to

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develop probabilistic
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Abstract This
And research provides two
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methods to assess the
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piezocone (CPTu),
and then a procedure
is proposed to
develop the seismic
fragility curves of soil

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liquefaction. For this purpose, a reliable liquefaction case history dataset based on CPT and CPTu tests is compiled.

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A novel probabilistic method is developed in this paper for

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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.

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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
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probabilistic
liquefaction
triggering threshold,
whereas the post-
treatment data
plotted on the right of
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~~Verifying liquefaction
remediation beneath
an earth dam ...~~

Two methods
presented here are
the Deterministic

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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
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comprises select
papers presented
during the Indian
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This volume discusses
concepts of soil
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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

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researchers and
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focus on the following: (i) polymer-based dust suppressant, (ii) cement concrete materials, (iii) pavement preservation techniques, (iv) frost front in a cold-region circular tunnel, (v) metro station in non-cemented soil, (vi) seismic-liquefaction,

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(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

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There are many

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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 effects of these

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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

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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,

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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

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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 development of design philosophies and performance criteria for resilient buildings and new

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sustainable
communities.

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the best contributions
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Greece, Italy, Japan,
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Portugal, Romania,
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United Kingdom. The
content of the book
focuses on seismicity
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earthquake
engineering,
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regulations,

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risks within a
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essential in view of
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to create early
warning models to
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problem of disaster
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coverage of social,
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impacts on disasters

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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

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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

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Specialists in the field of earthquake geotechnical engineering, are the invited lecturers of the International Conference on Earthquake Geotechnical Engineering from Case History to Practice in the honour of Professor Kenji Ishihara held in

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describes simplified
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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

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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.

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