



Earthquake Geotechnical Engineering Design (Geotechnical, Geological and Earthquake Engineering)

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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.

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George Bash:

This book untitled Earthquake Geotechnical Engineering Design (Geotechnical, Geological and Earthquake Engineering) to be one of several books which best seller in this year, honestly, that is because when you read this publication you can get a lot of benefit upon it. You will easily to buy this particular book in the book retail store or you can order it by using online. The publisher of this book sells the e-book too. It makes you quickly to read this book, because you can read this book in your Mobile phone. So there is no reason for you to past this publication from your list.

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