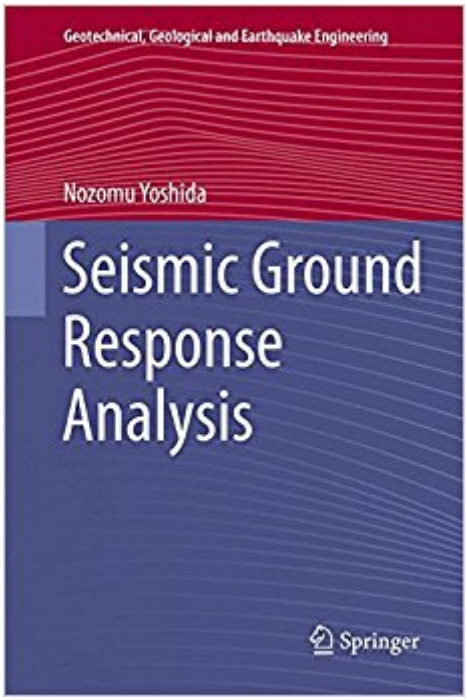
Seismic Ground Response Analysis (Geotechnical, Geological And Earthquake Engineering)



Synopsis

This book presents state-of-the-art information on seismic ground response analysis, and is not only very valuable and useful for practitioners but also for researchers. The topics covered are related to the stages of analysis: 1. Input parameter selection, by reviewing the in-situ and laboratory tests used to determine dynamic soil properties as well as the methods to compile and model the dynamic soil properties from literature;2. Input ground motion; 3. Theoretical background on the equations of motion and methods for solving them; 4. The mechanism of damping and how this is modeled in the equations of motions; 5. Detailed analysis and discussion of results of selected case studies which provide valuable information on the problem of seismic ground response analysis from both a theoretical and practical point of view.

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Customer Reviews

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Very good

Seismic Ground Response Analysis (Geotechnical, Geological and Earthquake Engineering) Perspectives on Earthquake Geotechnical Engineering: In Honour of Prof. Kenji Ishihara (Geotechnical, Geological and Earthquake Engineering) Seismic Design and Assessment of Bridges: Inelastic Methods of Analysis and Case Studies (Geotechnical, Geological and Earthquake Engineering) Seismic Risk and Engineering Decisions (Developments in Geotechnical Engineering) Geotechnical Earthquake Engineering, Second Edition (Mechanical Engineering) Geotechnical Earthquake Engineering Seismic design with supplemental energy dissipation devices (Publication / Earthquake Engineering Research Institute) Fire Following Earthquake (American Society of Civil Engineers: Technical Council on Lifeline Earthquake Engineering Monograph, No. 26) Geotechnical Engineering and Earth's Materials and Processes (Engineering in Action) Earthquake Engineering: From Engineering Seismology to Performance-Based Engineering ASD/LRFD Wind and Seismic: Special Design Provisions for Wind and Seismic with Commentary (2008) Principles of Geotechnical Engineering (Activate Learning with these NEW titles from Engineering!) Seismic Principles Practice Exams for the California Civil Seismic Exam Seismic Loads: Guide to the Seismic Load Provisions of ASCE 7 - 10 Seismic Interpretation of Contractional Fault-Related Folds: An AAPG Seismic Atlas (AAPG Studies in Geology) Drawing Geological Structures (Geological Field Guide) Seismic Design of Building Structures: A Professional's Introduction to Earthquake Forces and Design Details, 8th ed. Seismic Design of Building Structures: A Professionals Introduction to Earthquake Forces and Design Details Earthquake: Perspectives on Earthquake Disasters (Disaster Dossiers) Structural Dynamics of Earthquake Engineering: Theory and Application Using Mathematica and Matlab (Woodhead Publishing Series in Civil and Structural Engineering)