1. Record Nr. UNINA9910299434403321

Titolo	Perspectives on Earthquake Geotechnical Engineering : In Honour of Prof. Kenji Ishihara / / edited by Atilla Ansal, Mohamed Sakr
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2015
ISBN	3-319-10786-0
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (484 p.)
Collana	Geotechnical, Geological and Earthquake Engineering, , 1573-6059 ; ; 37
Disciplina	624.1/762
Soggetti	Geotechnical engineering Natural disasters Civil engineering Geotechnical Engineering & Applied Earth Sciences Natural Hazards Civil Engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di contenuto	Geotechnical damage in the downstream reaches of the Tone river in the 2011 East Japan Earthquake -- Amplification Effects of Thin Soft Surface Layers: A Study for NBCC 2015 -- New design spectra in Eurocode 8 and preliminary application to the seismic risk of Thessaloniki, Greece -- Incorporating Site Response into Seismic Hazard Assessments for Critical Facilities: A Probabilistic Approach -- Stress Scaling Factors For Seismic Soil Liquefaction Engineering Problems: A Performance-Based Approach -- Site amplification formula using Average Vs in equivalent surface layer based on vertical array strong motion records -- Observations from Istanbul vertical arrays and site specific response analysis -- Combined failure mechanism of a breakwater subject to Tsunami during 2011 East Japan Earthquake -- Lessons Learned From Dams Behavior Under Recent Earthquakes -- Nonlinear dynamic analyses of liquefaction effects on dams -- The Effects of Liquefaction on Earthquake Ground Motions -- Shaking model tests on liquefaction mitigation of embedded lifeline -- Effect of Long Duration of the Main Shock and a Big Aftershock on the

Liquefaction-Induced Damage During the 2011 Great East Japan Earthquake -- Liquefaction Observed During the 2010 Chile Earthquake -- A Case Study of Silty Sand Liquefaction- 2010 Hsin Hwa Liquefaction in Taiwan -- Post-earthquake analysis for a seismic retrofitting: the case history of a piled foundation in Augusta (Italy) -- Pile design in laterally spreading soil: Feedback from numerical predictions and model test results -- Integrating use of Swedish weight sounding tests for earthquake reconnaissance investigations.

Sommario/riassunto

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 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.