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Ikuo Towhata (Japan) Earthquake geotechnical engineering-mitigation of earthquake problems with emphasis on subsoil liquefaction: First, some features of earthquakes induced geotechnical damages are introduced. In this frame, an introduction to subsoil liquefaction was made. Then, its causative mechanism was highlighted.

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This book presents all issues of earthquake geotechnical engineering in a comprehensive way. It summarizes the present knowledge on earthquake hazards and their causative mechanisms, experimental studies on nonlinear complex soil behaviour, an analysis to predict ground behaviour during earthquakes, field studies to determine nature of real ground as input data for analysis, and damage mitigation technologies.

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Springer Series in Geomechanics and Geoengineering) Ikuo Towhata Geotechnical Earthquake Engineering Springer (2008)

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The conference was held in Thessaloniki, Greece, from 25 to 28 June, 2007, and was organized by the Technical Committee of Earthquake Geotechnical Engineering (TC4) of the International Society of Soil Mechanics and Geotechnical Engineering (ISSMGE), the Hellenic Scientific Society of Soil Mechanics and Geotechnical Engineering and the Laboratory of Soil Dynamics and Geotechnical Earthquake Engineering of Aristotle University of Thessaloniki.

Earthquake Geotechnical Engineering - 4th International ...

The Ishihara Lecture was established in 2004 by the Technical Committee on Geotechnical Earthquake Engineering and Associated Problems (TC203) in the frame of distinguished lectures of the International Society of Soil Mechanics and Geotechnical Engineering (ISSMGE). The Ishihara Lecture pays homage to the significant scientific and professional achievements of Professor Kenji Ishihara.

Ishihara Lecture - 7ICEGE

Geotechnical Earthquake Engineering and Soil Dynamics, as well as their interface with Engineering Seismology, Geophysics and Seismology, have all made remarkable progress over the past 15 years, mainly due to the development of instrumented large scale experimental facilities, to the increase in the quantity and quality of recorded earthquake data, to the numerous well-documented case studies ...

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Geotechnical analysis using advanced numerical methods such as soil-structure interaction finite element modeling, and groundwater modeling can often better simulate complex geotechnical problems, define earth and water loads, and result in more economical designs compared to conventional analysis. ... Earthquake Engineering; Challenges Solved.

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