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Behavior of Geomaterials and Foundations for Civil Infrastructure Applications

Edited by

Behzad Fatahi, Ph.D.

Tamer Sorour, Ph.D.

Zhen Leng, Ph.D.

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Preface

As a result of increasing and continuous social and infrastructural growth, appropriate ground for living and development becomes progressively scanty. Thus, engineers have been considering constructing buildings and infrastructure at locations with less favorable geotechnical conditions and in some cases in seismically active regions. Therefore, proper understanding of the soil behavior has become significantly important to optimize the design and construction of foundations. This Geotechnical Special Publication (GSP) contains 30 papers that were accepted and presented at the GeoChina International Conference on Sustainable Civil Infrastructures: Innovative Technologies for Severe Weathers and Climate Changes, held in Shandong, China on July 25-27, 2016. Major topics covered in this GSP are dynamic behavior of soils and foundations, and physical, numerical, constitutive modeling of soil behavior. The overall theme of the GSP is Behaviour of Geomaterials and Foundations for Civil Infrastructure Applications, and all papers address different research findings of this theme. It provides an effective mean of sharing recent technological advances, engineering applications and research results among scientists, researchers and engineering practitioners. All abstracts and full papers have been peer-reviewed prior to their acceptance and inclusion in this publication. We are most grateful to all authors and reviewers who have contributed to this Geotechnical Special Publication.

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Contents

Offshore Foundations Applied to Renewable Energy Infrastructure (RES).....1
Luisa N. Equihua-Anguiano, Marcos Orozco-Calderón, Carlos Chavez-Negrete, and José Roberto Pérez-Cruz

Study on the Property and Analysis of DX Pile Bearing Capacity 9
Po Lin Chen, Da-Wei Jian, De-Xin He, and Dave Ta-Teh Chang

Influence of Soft Soil Shear Strength on the Seismic Response of Concrete Buildings Considering Soil-Structure Interaction 17
Ruoshi Xu, Behzad Fatahi, and Aslan S. Hokmabadi

Validation of the Structural Analysis by PLAXIS^{2D} Geotechnical Software.....25
Mahbubeh Mortezaee and Ali Akhtarpour

Nonlinear Behavior of a 2 × 2 Pile Group under Rotating Machine-Induced Vertical Vibrations 33
S. Biswas and B. Manna

Pile-Soil Interactions under Thermo-Mechanical Conditions Imposed by Geothermal Energy Piles in Sand 41
Rajni Saggu and Tanusree Chakraborty

Experimental Study on the Dynamic Response of PHC Pipe-Piles in Liquefiable Soil 49
Fuyun Huang, Haimin Qian, and Yizhou Zhuang

The Elastodynamic Interaction of a Rigid Circular Foundation Embedded in a Functionally Graded Transversely Isotropic Half-Space.....57
Reza Yaghmaie and Hamidreza Asgari

Axisymmetric Vibration of an Elastic Circular Plate in an Inhomogeneous Half-Space.....65
Reza Yaghmaie and Hamidreza Asgari

Numerical Study on a Novel Vibration Screening Technique Using Intermittent Geofoam.....73
M. Majumder and P. Ghosh

Seismic Resistance of Batter Pile Foundations in Peaty Soft Ground 81
Koichi Tomisawa and Koichi Isobe

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Variation in a Shear Modulus of Enzyme-Treated Soil under Cyclic Loading 88
Ansu Thomas, R. K. Tripathi, and L. K. Yadu

Numerical Modeling of a Dynamic Pile–Soil Interaction in Layered Soil Media 96
Mohsen Mohammadizadeh and Moein Mohammadizadeh

Study on the 3D Nonlinear Artificial Boundary of Viscoelastic Media with the Standard Linear Solid Model 104
Bo Zhang, Xueying Yang, Jie Li, Wentao Dong, Ruisong Pan, Weimin Yang, Lei Yang, and Dunfu Zhang

Shaking Table Investigation on the Seismic Failure Mode of PHC Pipe-Piles Considering Liquefaction 108
Xingwu Wen, Jiesheng Zheng, Fuyun Huang, and Haimin Qian

Influence of Shallow Foundation Characteristics on the Seismic Response of Mid-Rise Buildings Subjected to Strong Earthquakes 117
Quoc Van Nguyen, Behzad Fatahi, and Aslan S. Hokmabadi

Characterization of Freezing Fresh Concrete by Multiple Non-Destructive Methods 125
Yan Liu, Junliang Tao, Xinbao Yu, Zhen Liu, and Xiong (Bill) Yu

The Influence of Pile Cap to p-y Curves under Lateral Loads 136
Shen-Kun Yu, Zhi Zhang, and Honghua Zhao

Multi-Scale Analysis of Deformation Modes in Granular Material Using a Dynamic Hybrid Polygonal Finite Element-Discrete Element Formulation 144
Brandon Karchewski, Peijun Guo, and Dieter Stolle

A Novel Model to Simulate the Behaviour of Cement-Treated Clay under Compression and Shear 152
Lam Nguyen, Behzad Fatahi, and Hadi Khabbaz

Chemo-Mechanical Approach to Modelling the Expansive Behavior of Sulfate Bearing Soils: The Role of Crystallization Pressure in Ettringite Formation 159
Pawan Sigdel and Liang Bo Hu

Analysis of the Effect of Stiffening at the Top of a Single Granular Pile with a Stress-Dependent Deformation Modulus 167
K. S. Grover and J. K. Sharma

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Finite Element Analysis of Laterally Loaded Piles in Clays.....175
Fath Elrahman E. Nur Eldayem and Yahia E.-A. Mohamedzein

Analysis of Ring Foundation Systems Resting on an Anisotropic Elastic Soil Medium Subjected to Working Compressive and Tensile Loads 183
Avishek Nath, V. Srinivasan, and Priyanka Ghosh

3-D Analysis of a Piled-Raft Foundation Subjected to Vertical and Lateral Loads.....193
Nasr E. Nasr and Tamer M. Sorour

Research on a Calculation Method and Three-Dimensional Simulation of a High-Filled Embankment Rheological Settlement 201
Zhi-Chao Wang, Du-Min Kuang, Tao Zhao, Ying-She Luo, and Wei-guo Wang

Dynamic Characteristics Study of Geosynthetic-Reinforced Soil under Cyclic Loading 210
Wei Shi, Tao Lu, Longlong Zhang, and Yue Pan

Transitional Plasticity Compression Model for Clays 217
Gyan Vikash

Numerical Behavior of Reinforced Soil by Rigid Inclusion.....225
Samia Boussetta, Mounir Bouassida, and Mondher Zouabi

Study of the Behavior of Tunis Soft Clay 233
Mnaouar Klai and Mounir Bouassida

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