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Sustainable Civil Infrastructures

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El-Naggar, H., El-Zahaby, K., Shehata, H. (Eds.)

Innovative Solutions for Soil Structure Interaction

Proceedings of the 3rd GeoMEast International Congress and Exhibition, Egypt 2019 on Sustainable Civil Infrastructures – The Official International Congress of the Soil-Structure Interaction Group in Egypt (SSIGE)

- Includes twenty peer-reviewed papers, submitted by renowned international researchers, covering a wide range of topics in soil structure interaction and soil dynamics
- Discusses case studies as well as physical and numerical models of geostructures
- Covers the topics that include response of laterally loaded piles on sloping ground, seismic response of retaining walls, soil liquefaction, utilizing piles as a mitigation to landslides, and centrifuge modeling of mine tailings
- Contributes to the further development of techniques and innovative approaches in soil structure interaction
- Serves directly the practitioners and the professionals

This book focuses on the role of soil structure interaction and soil dynamics. It discusses case studies as well as physical and numerical models of geostructures. Infrastructure is the key to create a sustainable community. It affects our future well-being as well as the economic climate. Indeed, the infrastructure we are building today will shape tomorrow's communities. GeoMEast 2019 created a venue for researchers and practitioners from all over the world to share their expertise to advance the role of innovative geotechnology in developing sustainable infrastructure. It covers soil structure interaction under static and dynamic loads, dynamic behavior of soils, and soil liquefaction. It is hoped that this book contributes to further advance the state of the art for the next-generation infrastructure.

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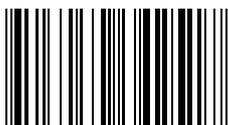
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