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About Foundation Engineering A

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Foundation is the lowest part of the building structure. It is the engineering field of study devoted to the design of those structures which support other structures, most typically buildings, bridges or transportation infrastructure.

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One of the core roles of a practising
geotechnical engineer is to analyse
and design foundations. This
textbook for advanced
undergraduates and graduate

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Numerical values of complex equations can be calculated quickly. non-linearity and optimization can be brought in more easily to employ functioned numerical methods. And sophisticated methods can be seen in practice, such as p-y curve for laterally loaded piles and flexible retaining

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studies related to important geotechnical engineering projects worldwide, providing useful insights into the realistic designs and constructions. This volume will be of interest to students, researchers and practitioners alike.

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2018). The topics covered include the utilization of industrial by-products as construction materials, sustainable and green materials in construction applications, and latest measures adopted for stabilization techniques. The book also discusses recent advances and techniques related to

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geotechnical and concrete domain
that can be used as a reference guide
for various researchers and
practitioners around the globe.

In Situ Testing Methods in

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Geotechnical Engineering covers the field of applied geotechnical engineering related to the use of in situ testing of soils to determine soil properties and parameters for geotechnical design. It provides an overview of the practical aspects of the most routine and common test

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On Shallow Foundation methods, as well as test methods that engineers may wish to include on specific projects. It is suited for a graduate-level course on field testing of soils and will also aid practicing engineers. Test procedures for determining in situ lateral stress, strength, and stiffness properties of

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Soils are examined, as is the determination of stress history and rate of consolidation. Readers will be introduced to various approaches to geotechnical design of shallow and deep foundations using in situ tests. Importantly, the text discusses the potential advantages and

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disadvantages of using in situ tests.

This book presents the selected peer-reviewed papers from the national conference Futuristic Approaches in Civil Engineering (FACE) 2019. This volume focuses on latest research and challenges in the field of

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