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Proc. ASCE, Journal of Geotechnical and Geoenvironmental Engineering. Available on-line Ahead of Print. Byrne, B.W., Schupp, J., Martin, C.M., Maconochie, A., Oliphant, J. and Cathie, D.N. (2012) " Uplift behaviour of shallowly buried pipe sections in saturated very loose sand. " G é o technique, Available on-line Ahead of Print.

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The International Journal of Geotechnical Engineering (IJGE) currently publishes 8 issues a year. The aim of the Journal is to provide an international platform for disseminating original research and innovative applications in all topics of geotechnical engineering except in rock mechanics, ground motion and earthquake. Topics on geotechnical applications supported by computational and ...

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Modeling in Geotechnical Engineering is a one stop reference for a range of computational models, the theory explaining how they work, and case studies describing how to apply them. Drawing on the expertise of contributors from a range of disciplines including geomechanics, optimization, and computational engineering, this book provides an interdisciplinary guide to this subject which is suitable for readers from a range of backgrounds. Before tackling the computational approaches, a theoretical understanding of the physical systems is provided that helps readers to fully grasp the significance of the numerical methods. The various models are presented in detail, and advice is provided on how to select the correct model for your application. Provides detailed descriptions of different computational modelling methods for geotechnical applications, including the finite element method, the finite difference method, and the boundary element method Gives readers the latest advice on the use of big data analytics and artificial intelligence in geotechnical engineering Includes case studies to help readers apply the methods described in their own work

Readers gain a valuable overview of soil properties and mechanics together with coverage of field practices and basic engineering procedures with Das and Sobhan ’ s PRINCIPLES OF GEOTECHNICAL ENGINEERING, 9E. This introduction to geotechnical engineering forms an important foundation for future civil engineers. This book provides critical background knowledge readers need to support any advanced study in design as well as to prepare them for professional practice. The authors ensure a practical and application-oriented approach to the subject by incorporating a wealth of comprehensive discussions and detailed explanations. Readers find more figures and worked-out problems than any other book for the course to ensure understanding. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Geotechnical Engineering of Dams, 2nd edition provides a comprehensive text on the geotechnical and geological aspects of the investigations for and the design and construction of new dams and the review and assessment of existing dams. The main emphasis of this work is on embankment dams, but much of the text, particularly those parts related to g

This book contains the best peer-reviewed papers accepted for presentation at the 2nd Springer Conference of the Arabian Journal of Geosciences (CAJG-2), organized in Sousse, Tunisia, in November 2019. The short papers cover various topics from the fields of (1) geological and geotechnical engineering, (2) geomechanical studies based on numerical and analytical methods, and (3) geo-informatics and remote sensing. The content of these papers provides new scientific knowledge for further understanding on landslides, new stabilization techniques, importance of geophysics for engineering geology investigations as well as new empirical approaches for easily predicting some physical and hydrogeomechanical properties of geomaterials. The book is of interest to all researchers, practitioners, and students in the fields of geological and mining engineering, geotechnical engineering, hydrogeomechanics, engineering geology, geotechnologies, and natural hazards.

Rock mechanics is a multidisciplinary subject combining geology, geophysics, and engineering and applying the principles of mechanics to study the engineering behavior of the rock mass. With wide application, a solid grasp of this topic is invaluable to anyone studying or working in civil, mining, petroleum, and geological engineering. Rock Mechani

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