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Advances in Unsaturated Soil, Seepage, and Environmental Geotechnics. Edited by Ning Lu; Laureano R. Hoyos; and Lakshmi Reddi. GSP 148 Book set: GeoShanghai 2006 ISBN (print): 9780784408605 ISBN (PDF): 9780784478103. Tools Add to Favorites Email Track Citations ...

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Advances in unsaturated soil, seepage, and environmental ...

Cracks in soil provide preferential pathways for water flow and their morphological parameters significantly affect the hydraulic conductivity of the soil. To study the hydraulic properties of cracks, the dynamic development of cracks in the expansive soil during drying and wetting has been measured in the laboratory. The test results enable the development of the relationships between the ...

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Stability Analysis of Unsaturated Soil Slope by 3-D ...

Governing equations as well as constitutive models for describing the coupled seepage-erosion-deformation behaviour within unsaturated erodible soils are presented: the solid skeleton is modelled as an elasto-plastic material; the pore water is treated as a weakly compressible fluid; while the fine particles in the solid matrix can be eroded and transferred into liquidised fine particles, and transported with the flowing liquid.

A generalized interpolation material point method for ...

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This suggests that the proposed coupled GIMP framework is a promising approach for future studies of internal erosion problems in unsaturated soils involving complex multi-couplings of seepage flow, phase change and large deformations, which are difficult to be modelled by traditional mesh-based methods.

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Chapter 4 - Seepage through Unsaturated Soils | ISSMGE

The stability analysis is based on the theory of unsaturated soil mechanics and saturated-unsaturated seepage and accounts for the hydromechanical coupling effect. The changes in shear stress and strain as well as pore water pressure due to rapid water-level fluctuations are explicitly examined.

Effects of Rapid Water-Level Fluctuations on the Stability ...

Main Advances in Unsaturated Soils. Advances in Unsaturated Soils Bernardo Caicedo, Carol Murillo, et al. Year: 2013 Publisher: CRC Press/Balkema Language: english Pages: 610. ISBN 10: 0203771079 ISBN 13: 978-0-415-62095-6 File: PDF, 81.65 MB Preview Save ...

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Title: Rainfall Erosion Control on Roadside Embankment Using Compost Soils Author: Ming Xiao¹ ; Lakshmi N. Reddi² ; Joshua Howard³ ; Allie Devine⁴ ; and Rick R. Stott⁵ ¹Assistant Professor, Department of Civil and Geomatics Engineering and Construction, M/S EE94.

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The understanding of unsaturated soil mechanics principles is of interest to a wide spectrum of geotechnical problems associated with soils above water table and compacted soils. This paper describes the stress state variables and constitutive equations based on the unsaturated soil mechanics principles.

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