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

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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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