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Advances in Unsaturated Soil, Seepage, and Environmental Geotechnics Edited by Ning Lu ; Laureano R. Hoyos ; and Lakshmi Reddi GSP

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The cracked soil can be represented as an overlapping continuum of pore media and crack media. As such, in this study, the pore-crack dual media model has been used to simulate the unsaturated seepage in the cracked soil. The fractal model has been used to describe the SWCC of the dual media, and normal SWCC has been used for the pore media.

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Collapse Property and Microstructure of Loess | Advances ...

Unsaturated Soils: Advances in Geo-Engineering comprises 136 contributions from leading international researchers and practitioners, presented at the First European Conference on Unsaturated Soils (Durham, UK, 2-4 July 2008). The papers report on the latest advances in geo-engineering aspects of unsaturated soils. It is the first collection to focus

Advancements In Unsaturated Soil Mechanics ebook PDF ...

In this paper, a computational framework based on the material point method (MPM) is developed to study the coupled seepage-erosion-deformation process within unsaturated soils. Based on the mixture theory, the unsaturated erodible soil is conceptualized as a three-phase multi-species porous medium, which is represented as a set of Lagrangian material points in a three-phase multi-species single point MPM framework.

A generalized interpolation material point method for ...

Only in few studies have phreatic seepage and flows in the unsaturated zone to non-rectangular (trapezoidal and curvilinear) draining entities been analytically examined (PK-77 reported solutions by Bazanov, p. 150 of her book, and Vedernikov, pp.181-182, see also Ilyinsky and Kacimov, 1992a, Kacimov, 2005, 2006a, Kacimov and Obnosov, 2002).

Seepage to ditches and topographic depressions in ...

Advances in Unsaturated Soils is a collection of papers from the 1st Pan-American Conference on Unsaturated Soils organized in Cartagena de Indias, Colombia, in February 2013. The volume includes 76 research papers coming from all over the world, as well as 7 keynote papers by well known international researchers.

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Although a lot of work on unsaturated soil seepage has been conducted, the unsaturated seepage in vacuum drainage conditions is not fully

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studied. The current study of vacuum drainage method is limited to saturated seepage. Pan and Huang et al. [21, 22] analyzed the mechanism of vacuum tube dewatering by laboratory experiment and field test. The lack of research leads to the weak theoretical and computational basis of vacuum drainage, which severely limits the development of the method.

One-Dimensional Vacuum Steady Seepage Model of Unsaturated ...

Consolidation in spatially random unsaturated soils based on coupled flow-deformation simulation ... Advances in Gaussian random field generation: a review, Computational Geosciences, 10.1007/s10596-019-09867-y, (2019). Crossref. Shahriar Shahrokhbadi, Farshid Vahedifard, Random Isogeometric Analysis for Modeling Seepage in Unsaturated Soils ...

Consolidation in spatially random unsaturated soils based ...

Title: Rainfall Erosion Control on Roadside Embankment Using Compost Soils Author: Ming Xiao<sup>1</sup> ; Lakshmi N. Reddi<sup>2</sup> ; Joshua Howard<sup>3</sup> ; Allie Devine<sup>4</sup> ; and Rick R. Stott<sup>5</sup> <sup>1</sup>Assistant Professor, Department of Civil and Geomatics Engineering and Construction, M/S EE94.

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