Advanced Unsaturated Soil Mechanics and Engineering

Charles W.W. Ng and Bruce Menzies



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Advanced Unsaturated Soil Mechanics and Engineering C. W. W. Ng, Chao Zhou, Junjun Ni, 2025 This includes topics not available in other books such as the state dependency of soil water retention behaviour water permeability function suction effects on dilatancy and peak shear strength small strain stiffness cyclic thermal effects on unsaturated soil state dependent elastoplastic constitutive modelling of the monotonic and cyclic behaviour of unsaturated soils With case studies including the South to North Water Transfer Project in China and the design of wall deflection in deep excavation problems This new edition covers recent suction history on small strain stiffness cyclic thermal effects on soil behaviour and wall deflection in deep excavations. Advanced Unsaturated Soil Mechanics Charles W.W. Ng, Chao Zhou, Junjun Ni, 2024-10-24 Unsaturated soil is a three phase material that is ubiquitous on the Earth's surface and exhibits complex behaviour which becomes more complex in response to the Earth's changing climate and increasing engineering activities This is because the former affects its moisture and temperature conditions significantly and the latter governs its stress state and suction condition This book is designed to meet the increasing challenges of climate change and engineering activities by covering the mechanics and engineering of unsaturated soil in a logical manner It comprises four major parts Water retention and flow characteristics Shear strength and stiffness at various temperatures State dependent elasto plastic constitutive modelling Field monitoring and engineering applications This second edition uniquely covers fundamental topics on unsaturated soil that are not covered

in other similar books including the state dependency of soil water retention behaviour and water permeability functions such as dependence on engineering activities small strain stiffness considering the influence of wetting drying cycles and recent suction history such as that due to climate change suction effects on dilatancy and peak shear strength cyclic thermal effects on soil behaviour state dependent elastoplastic constitutive modelling of monotonic and cyclic behaviour engineering applications such as the South to North Water Transfer Project an earthen landfill cover system devoid of geomembrane in the Xiaping landfill Shenzhen and a 15 m deep multi propped excavation in Tianjin China

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Unsaturated Soil Mechanics - from Theory to Practice Zhenghan Chen, Changfu Wei, De´an Sun, Xongfu Xu, 2015-10-14 In the past decades advances have been made in the research and practice on unsaturated soil mechanics In 2000 the first Asia Pacific Conferences on Unsaturated Soils was organized in Singapore Since then four conferences have been held under the continued support of the Technical Committee on Unsaturated Soils TC106 of the International Socie Unsaturated Soil Mechanics in Engineering Practice Delwyn G. Fredlund, Hendry Rahardjo, Murray D.

Fredlund,2012-07-24 The definitive guide to unsaturated soil from the world's experts on the subject This book builds upon and substantially updates Fredlund and Rahardjo's publication Soil Mechanics for Unsaturated Soils the current standard in the field of unsaturated soils It provides readers with more thorough coverage of the state of the art of unsaturated soil behavior and better reflects the manner in which practical unsaturated soil engineering problems are solved Retaining the fundamental physics of unsaturated soil behavior presented in the earlier book this new publication places greater emphasis on the importance of the soil water characteristic curve in solving practical engineering problems as well as the quantification of thermal and moisture boundary conditions based on the use of weather data Topics covered include Theory to Practice of Unsaturated Soil Mechanics Nature and Phase Properties of Unsaturated Soil State Variables for Unsaturated Soils Measurement and Estimation of State Variables Soil Water Characteristic Curves for Unsaturated Soils Ground Surface Moisture Flux Boundary Conditions Theory of Water Flow through Unsaturated Soils Solving Saturated Unsaturated Water Flow Problems Air Flow through Unsaturated Soils Heat Flow Analysis for Unsaturated Soils Shear Strength of Unsaturated Soils Shear Strength of Unsaturated Soils Shear Strength Applications in Plastic and Limit Equilibrium Stress Deformation Analysis for Unsaturated Soils Solving

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followed by an introduction tostress state variables critical state and theoretical models inunsaturated soils A detailed description of the thermodynamic principles asapplied to multi phase materials under equilibrium conditionsfollows These principles are then used to explore and develop afundamental theoretical basis for analysing unsaturated soils Soilstructure is broken down into its component parts to developequations describing the dual stress regime The critical statestrength and compression characteristics of unsaturated soils are examined and it is shown how the behaviour may be viewed as athree dimensional model in dimensionless stress volume space Theanalysis is then extended to the work input into unsaturated soilsand the development of conjugate stress volumetric andstrain increment variables These are used to examine themicromechanical behaviour of kaolin specimens subjected to triaxialshear strength tests and lead to observations not detectable byother means Unsaturated Soils A fundamental interpretation of soilbehaviour covers a rapidly advancing area of study researchand engineering practice and offers a deeper appreciation of thekey characteristics of unsaturated soil It provides students andresearchers with a framework for understanding soil behaviour anddemonstrates how to interpret experimental strength and compressiondata provides engineers with a deeper appreciation of keycharacteristics of unsaturated soils covers a rapidly advancing area of study research andengineering practice provides students and researchers a framework for understandingsoil behaviour shows how to interpret experimental data on strength and compression the limited number of books on the subject are all out ofdate

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