



# Advanced Unsaturated Soil Mechanics and Engineering

*Charles Wang Wai Ng, Bruce Menzies*

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**Advanced Unsaturated Soil Mechanics and Engineering** Charles Wang Wai Ng, Bruce Menzies

Analytical and comprehensive, this state-of-the-art book, examines the mechanics and engineering of unsaturated soils, as well as explaining the laboratory and field testing and research that are the logical basis of this modern approach to safe construction in these hazardous geomaterials; putting them into a logical framework for civil engineering and design.

The book:

- illustrates the importance of state-dependent soil-water characteristic curves
- highlights modern soil testing of unsaturated soil behaviour, including accurate measurement of total volume changes and the measurement of anisotropic soil stiffness at very small strains
- introduces an advanced state-dependent elasto-plastic constitutive model for both saturated and unsaturated soil
- demonstrates the power of numerical analysis which is at the heart of modern soil mechanics
- studies and simulates the behaviour of loose fills from unsaturated to saturated states; explains the difference between strain-softening and static liquefaction, and describes real applications in unsaturated soil slope engineering
- includes purpose-designed field trials to capture the effects of two independent stress variables, and reports comprehensive measurements of soil suction, water contents, stress changes and ground deformations in both bare and grassed slopes
- introduces a new conjunctive surface and subsurface transient flow model for realistically analysing rainfall infiltration in unsaturated soil slopes, and illustrates the importance of the flow model in slope engineering.

Including constitutive and numerical modelling, this volume will interest students and professionals studying or working in the areas of geotechnical engineering and the built environment.

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