



# Advances in Unsaturated Soils

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New theories and testing techniques related with Unsaturated Soil Mechanics have proven to be valuable tools to study a broad spectrum of geo-materials which includes rocks, rock fills, frozen soils and domiciliary solid wastes. These new theories and testing techniques have permitted the analysis of several traditional problems from a new perspective (e.g., swelling or collapsible soils and compacted soils or pavements materials), and they have also shown their efficiency to study new energy-related problems like CO<sub>2</sub> sequestration and nuclear waste disposal.

**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 for all over the world, as well as 7 keynotes papers by well known international researchers. The contributions present a variety of topics including:

- Advances in testing techniques
- Unsaturated soil behavior
- Constitutive modeling and microstructure
- Numerical modeling
- Geotechnical problems

Advances in Unsaturated Soils is expected to become a useful reference to academics and professionals involved in Unsaturated Soil Mechanics.

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