



water

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Recent Advancements in Unsaturated Soil Mechanics

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Unsaturated soils account for a large portion of the Earth's land surface. Many routine civil engineering projects deal with unsaturated soils. Examples include soil compaction in roads, dams, and embankments, soil characterization, slope stability assessment, and many others. Although research on unsaturated soils began in the 1950s, and considerable advances have been achieved in the numerical and constitutive modeling, experimental investigation, and field monitoring of unsaturated soils, the application of unsaturated soil mechanics in the practice of geotechnical engineering is still limited. This is partly due to the inherent complexities associated with the behavior of unsaturated soils. The uptake of unsaturated soil mechanics in the geotechnical engineering practice has also been hampered by the confusing nature of some of the models proposed for the behavior of unsaturated soils.

[...]

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