Special Issue

Seepage Problems in Geotechnical Engineering

Message from the Guest Editors

As an area of study, seepage mechanics is an important scientific discipline that focuses on the patterns of fluid flow in porous media and covers theoretical, experimental, numerical simulation, and other studies. Since its inception, it has found a wide range of applications in the development of geotechnical engineering, such as in landslides, groundwater, shale gas, geothermal energy, nuclear energy, and other projects. Meanwhile, researchers in the field of seepage mechanics have made great progress in the study of geological hazards, water loss and soil erosion, ground water pollution diffusion, biological–physical–chemical percolation, and other scientific and technological problems. However, this subject is facing new challenges in the fields of non-Darcy, non-Newtonian, nonlinear media, as well as in multi-scale, multi-phase, and multi-field percolation theory and their coupled effects. As a result, seepage problems have become a theoretical and applied foundation for scientific and technical fields of geotechnical engineering.

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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