Special Issue

The Application of Numerical Modeling in Fluid Dynamics

Message from the Guest Editor

The water-passing capacity of rock fractures is much stronger than that of rock matrices, making various major projects inseparable from the help of fractures, such as the development of shale gas, the exploitation of geothermal energy, and the treatment and disposal of nuclear waste. Seepage in rock fractures is the main cause of disasters in nature (landslides and collapses) and engineering (water inrush from foundation pits, slope instability, and cavern collapse). However, the anisotropy of fracture surface morphology and fracture deformation under the action of in situ stress make water flow in rock fractures complex. This Special Issue mainly focuses on seepage in rock fractures. It primarily focuses on numerical simulation methods in the rock fractures; numerical simulation: physical phenomena that are difficult to observe by experimental means; and theoretical formula: scientific laws under specific conditions that can provide practice guidance. [...] For further reading, please follow the link to the Special Issue Website at: https://www.mdpi.com/journal/water/special_issues/26YQR5U228

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In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

Editor-in-Chief

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