Special Issue

Fluids Flow in Mining Engineering

Message from the Guest Editors

Mining activities inevitably lead to the redistribution of underground rock mass stresses and the fracturing damage of rock masses. Such damage alters the permeability of surrounding rocks, thereby inducing fluid flow.

The study of fluid flow in mining engineering encompasses the movement patterns and applied technologies of liquids, gases, and multiphase media within complex geological environments. These include groundwater seepage laws, methane flow characteristics, the fluidity of filling slurries, and seepage behaviors under high geo-stress and multi-field coupling effects. The core objectives are to ensure mining safety, enhance operational efficiency, and mitigate environmental impacts. This Special Issue aims to gather contributions that advance the study of fluid flow in mining engineering and share the latest research results.

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