

Symmetry in Paste Material Characteristics: Physico-Chemical and Microstructural Considerations

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Message from the Guest Editor

Dear Colleagues,

Mining activities generates large volumes of tailings, man-made soils. When tailings are well blended with binder and water, they form cemented paste backfill (CPB) which is symmetrically employed to re-fill the openings or voids created by ore extraction.

CPB properties, such as water retention, initial flow, flow after suction, the flow (pressure, velocity and flow angles), resistance to segregation, pumping, curing, and axial symmetric compression, are governed by physio-chemical, mineralogical, and mineralogical factors. Each CPB mixture which deals with new perspective materials must be explored particularly to assess its ultimate function for mines...



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Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

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