Special Issue

Naturally Fractured Reservoirs: Evaluation, Characterization, and Simulation

Message from the Guest Editors

Naturally fractured reservoirs are of great importance for hydrocarbons, water, CO2 storage and hydrothermal energy. Fractures control connectivity and permeability of these reservoirs and, thus, their characterization and thorough understanding are required for correct evaluation of business opportunities and planning of successful development strategies. Fracture data from subsurface reservoirs are often scattered and biased, forcing geoscientists to apply newer technologies and to integrate models derived from analogues in order to perform full field scale fracture characterization. The complexity of natural fracture networks, mostly related to a heterogeneous distribution of deformation, rock mechanical properties and diagenesis, represents a challenge for upscaling and simulation.

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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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