

Advanced Discretization Techniques for the Simulation of Fluid Flow in Porous Media

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ABSTRACT

The mini-symposium is dedicated to the discussion of recent developments and applications in the field of Numerical Simulation of multiphase flow in porous media, encompassing petroleum reservoirs, aquifer, nuclear disposal, transport of contaminants, poroelasticity and related disciplines, including new gridding, mesh adaptation, advanced numerical formulations, multiscale and multilevel methods. The goal is to bring together researchers, students and professionals in the field of petroleum reservoir simulation and all areas involving porous media flows. The scope of the mini-symposium ranges from the mathematical and computational methods to the modelling and simulation of challenging applications in multiphase flow in porous media.