

ADVANCED NUMERICAL TECHNIQUES FOR FLUID FLOW IN POROUS MEDIA

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MINISYMPOSIUM

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, aquifers, nuclear disposal, carbon storage, hydrogen storage, geothermal energy, transport of contaminants, poroelasticity and related disciplines, including new gridding, mesh adaptation, advanced numerical formulations, artificial intelligence methods, 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 mathematical and computational methods to the modeling and simulation of challenging applications in multiphase flow in porous media.