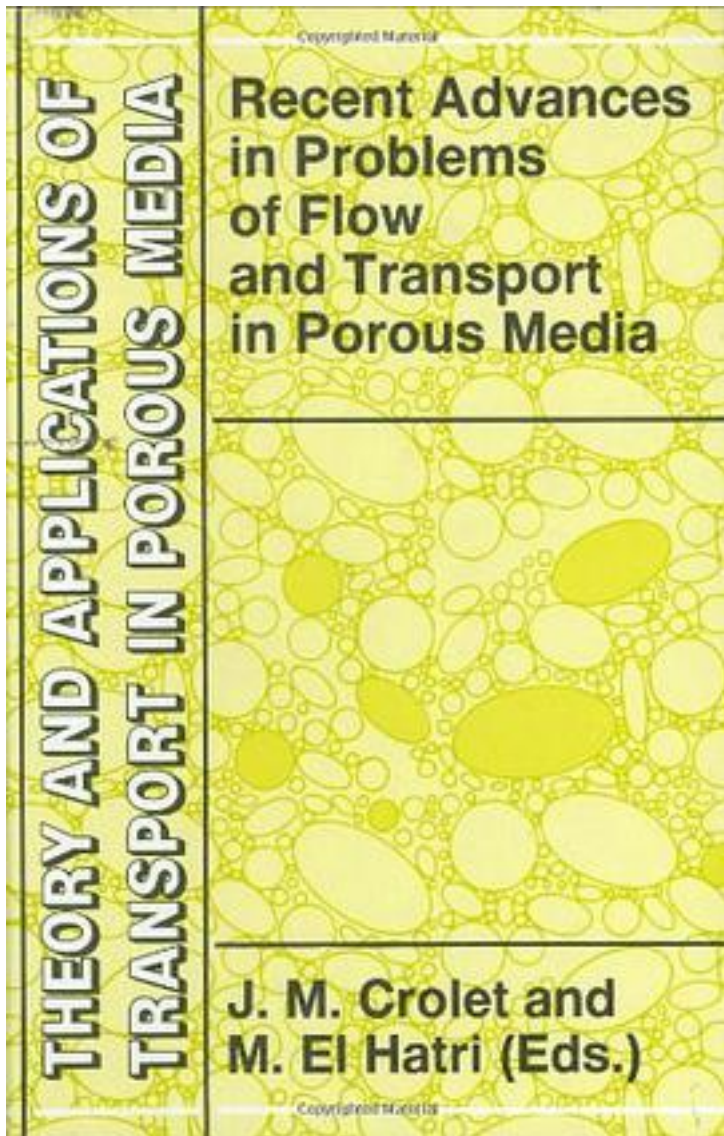


Recent Advances in Problems of Flow and Transport in Porous Media



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This volume focuses on recent advances in the modelling of flow and transport in porous media. The first two sections deal with new model approaches and mathematical methods, including error estimates for approximate solutions, parameter sensitivity studies, and solution techniques for degenerate parabolic equations. The third section addresses mass transport and heat transfer in porous media. The final section covers multi-phase flow and multi-component transport. Model applications are linked to water management and pollution problems and include unsaturated as well as saturated soils, saltwater intrusions into coastal aquifers and contaminant dispersion. The key reference provided at the end of each chapter provides the reader with entry points for further detailed study. This book offers essential reading for civil, environmental and hydraulic engineers involved in management of aquifers through numerical simulations. It also provides faculty and graduate students with recent developments in porous media modelling.

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