- Motivating Ideas and Governing Equations
- Fracture Flow Analysis
- Flows Past Shaly Bodies
- Streamline Tracing and Complex Variables
- Flows in Complicated Geometries
- Radial Flow Analysis
- Finite Difference Methods for Planar Flows
- Curvilinear Coordinates and Numerical Grid Generation
- Steady State Reservoir Applications
- Transient Compressible Flows
- Effective Properties in Single and Multiphase Flows
- Modeling Stochastic Heterogeneities
- Real and Artificial Viscosity
- Borehole Invasion, Lost Circulation, Time Lapse Logging
- Horizontal, Deviated, and Modern Multilateral Well Analysis
- Fluid Mechanics of Invasion
- Static and Dynamic Filtration
- Formation Tester Applications
- Analytical Methods for Time Lapse Well Logging Analysis
- Complex Invasion Problems: Numerical Modeling
- Forward and Inverse Multiphase Flow Modeling