



Formation Invasion:: With Applications to Measurement-While-Drilling, Time Lapse Analysis, and Formation Damage

Wilson C. Chin PhD

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This book proposes solutions to decades-old problems such as static piston-like filtration in a radial reservoir with simultaneous transient mudcake buildup, filtrate invasion, and front displacement of dissimilar fluids

Formation invasion is an area of interest to log analysts (both resistivity and nuclear), MWD (measurement-while-drilling) practitioners concerned with the physical meaning of their data, production engineers concerned with formation damage, reservoir engineers concerned with formation evaluation information, and drillers concerned with mudcake.

This groundbreaking book, requiring only a background in undergraduate petroleum engineering, presents powerful new models for invasion and log interpretation. It integrates reservoir simulation with moving boundary value problem analysis to produce numerous flow models integral to MWD invasion modeling, time lapse analysis, and mudcake damage assessment.

Derives closed form solutions for dynamically coupled mudcake growth and radial front motion for piston-like displacement of dissimilar fluids

Develops analytical models for dynamic filtration and equilibrium mudcake thickness

Explains finite difference analysis, showing how numerical methods extend exact models

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