



# **Pressure Transient Formation and Well Testing: Convolution, Deconvolution and Nonlinear Estimation (Developments in Petroleum Science)**

*Fikri J. Kuchuk, Mustafa Onur, Florian Hollaender*

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This reference presents a comprehensive description of flow through porous media and solutions to pressure diffusion problems in homogenous, layered, and heterogeneous reservoirs. It covers the fundamentals of interpretation techniques for formation tester pressure gradients, and pretests, multiprobe and packer pressure transient tests, including derivative, convolution, and pressure-rate and pressure-pressure deconvolution. Emphasis is placed on the maximum likelihood method that enables one to estimate error variances in pressure data along with the unknown formation parameters.

- Serves as a training manual for geologists, petrophysicists, and reservoir engineers on formation and pressure transient testing
- Offers interpretation techniques for immediate application in the field
- Provides detailed coverage of pretests, multiprobe and packer pressure transient tests, including derivative, convolution, and pressure-rate and pressure-pressure deconvolution

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