



# Working Guide to Reservoir Rock Properties and Fluid Flow

*Tarek Ahmed*

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## **Working Guide to Reservoir Rock Properties and Fluid Flow** Tarek Ahmed

Working Guide to Reservoir Rock Properties and Fluid Flow provides an introduction to the properties of rocks and fluids that are essential in petroleum engineering.

The book is organized into three parts. Part 1 discusses the classification of reservoirs and reservoir fluids. Part 2 explains different rock properties, including porosity, saturation, wettability, surface and interfacial tension, permeability, and compressibility. Part 3 presents the mathematical relationships that describe the flow behavior of the reservoir fluids. The primary reservoir characteristics that must be considered include: types of fluids in the reservoir, flow regimes, reservoir geometry, and the number of flowing fluids in the reservoir. Each part concludes with sample problems to test readers knowledge of the topic covered.

Critical properties of reservoir rocks Fluid (oil, water, and gas)

PVT relationships

Methods to calculate hydrocarbons initially in place

Dynamic techniques to assess reservoir performance

Parameters that impact well/reservoir performance over time

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