



# Phase Behavior of Petroleum Reservoir Fluids

*Karen Schou Pedersen, Peter L. Christensen, Jawad Azeem Shaikh*

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Understanding the phase behavior of the various fluids present in a petroleum reservoir is essential for achieving optimal design and cost-effective operations in a petroleum processing plant. Taking advantage of the authors' experience in petroleum processing under challenging conditions, **Phase Behavior of Petroleum Reservoir Fluids** introduces industry-standard methods for modeling the phase behavior of petroleum reservoir fluids at various stages in the process.

Keeping mathematics to a minimum, the book discusses sampling, characterization, compositional analyses, and equations of state used to simulate various pressure–volume–temperature (PVT) properties of reservoir fluids. The coverage of phase behavior at reservoir conditions includes simulating minimum miscibility pressures and compositional variations depending on depth and temperature gradients. Developed in conjunction with several oil companies using experimental data for real reservoir fluids, the authors present new models for the characterization of heavy undefined hydrocarbons, transport properties, and solids precipitation.

An up-to-date overview of recently developed methods for modern petroleum processing, **Phase Behavior of Petroleum Reservoir Fluids** presents a streamlined approach for more accurate analyses and better predictions of fluid behavior under variable reservoir conditions.

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