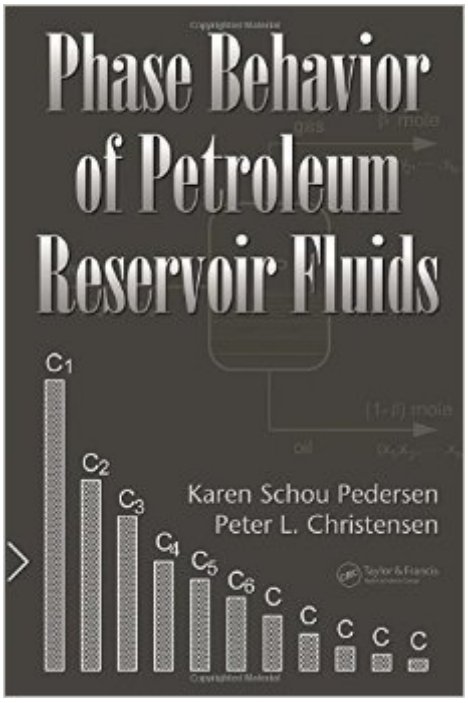
Phase Behavior Of Petroleum Reservoir Fluids



Synopsis

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 authorsâ ™ 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 pressureâ “volumeâ “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.Â 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.

Book Information

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Customer Reviews

It is a good reference explained in an easy way. I liked the idea that it made reference to recent publications.

Excellent book! Covers the full range of topics including sampling and QA/QC.

Phase Behavior of Petroleum Reservoir Fluids Exploring for Oil and Gas Traps (Treatise of Petroleum Geology, Handbook of Petroleum Geology Series) (Treatise of Petroleum Geology, Handbook of Petroleum Geology Series) Fluids and Electrolytes: NCLEX Mastery - The EASY Guide to Understand Fluids and Electrolytes!: Basic + Advanced concepts made incredibly easy!! The Practice of Reservoir Engineering (Revised Edition), Volume 36 (Developments in Petroleum Science) Fundamentals of Reservoir Engineering, Volume 8 (Developments in Petroleum Science) Applied Petroleum Reservoir Engineering (3rd Edition) PeriAnesthesia Nursing Core Curriculum: Preprocedure, Phase I and Phase II PACU Nursing, 3e PeriAnesthesia Nursing Core Curriculum: Preprocedure, Phase I and Phase II PACU Nursing The Properties of Petroleum Fluids Practical Enhanced Reservoir Engineering: Assisted with Simulation Software A Practical Guide to Oil & Gas Resource Characterization For Geologists and Reservoir Engineers Advanced Reservoir Management and Engineering, Second Edition The Frozen Chosen: The 1st Marine Division and the Battle of the Chosin Reservoir (General Military) Colder Than Hell: A Marine Rifle Company at Chosin Reservoir Colder than Hell: A Marine Rifle Company at Chosin Reservoir (Bluejacket Books) One Bugle, No Drums: The Marines at Chosin Reservoir Desert and River in Nubia: Geomorphology and Prehistoric Environments at the Aswan Reservoir Carbonate Reservoir Characterization: An Integrated Approach Seismic Stratigraphy, Basin Analysis and Reservoir Characterisation (Handbook of Geophysical Exploration: Seismic Exploration) Dynamics of Fluids in Porous Media (Dover Civil and Mechanical Engineering)