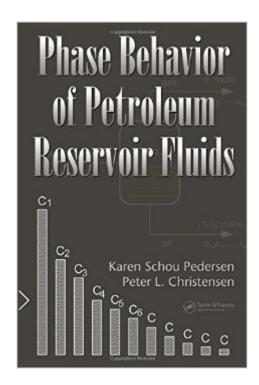
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# Phase Behavior Of Petroleum Reservoir Fluids





## 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 <sup>™</sup> 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. 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**

Hardcover: 422 pages Publisher: CRC Press; 1 edition (November 1, 2006) Language: English ISBN-10: 0824706943 ISBN-13: 978-0824706944 Product Dimensions: 10.1 x 7.1 x 1.1 inches Shipping Weight: 1.1 pounds (View shipping rates and policies) Average Customer Review: 5.0 out of 5 stars Â See all reviews (2 customer reviews) Best Sellers Rank: #1,418,592 in Books (See Top 100 in Books) #59 in Books > Engineering & Transportation > Engineering > Electrical & Electronics > Fiber Optics #388 in Books > Engineering & Transportation > Engineering > Energy Production & Extraction > Fossil Fuels > Petroleum #488 in Books > Science & Math > Chemistry > Industrial & Technical

### **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.

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