



# Thermodynamics of Hydrocarbon Reservoirs

*By Abbas Firoozabadi*

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## **Modern look at the thermodynamics of hydrocarbon reservoirs**

This brilliant, original work offers novel formulations of thermodynamic principles for hydrocarbon reservoirs. The book is packed with valuable step-by-step derivations for retrograde phenomena in capillaries, diffusion and convection, stability and criticality in mixtures, precipitation from complex mixtures, and numerous examples that show in detail how to calculate and apply concepts using the most contemporary techniques.

The book is not only a valuable reference for petroleum and chemical engineers, but can be used by engineers and scientists in different disciplines.

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## **Editorial Review**

From the Back Cover

Thermodynamics of hydrocarbon reservoirs from a modern point of view. Comprehensive and clear description of complex mixtures. This brilliant and original work offers novel formulations of thermodynamic principles for hydrocarbon reservoirs. The book is packed with valuable step-by-step derivations for retrograde phenomena in capillaries, diffusion and convection, stability and criticality in mixtures, precipitation from complex mixtures, and numerous examples that show in detail how to calculate and apply concepts using modern techniques. The presentation of the concepts is made with a unified approach and, therefore, the book is not only a valuable reference for petroleum and chemical engineers, but can be used by engineers and scientists in different disciplines. The much needed work can also be used as a graduate-level text for petroleum and chemical engineering. Problems at the end of each chapter allow students to test and enhance their understanding.

About the Author

Abbas Firoozabadi is an internationally known expert in petroleum reservoir engineering. The director of Reservoir Engineering Research Institute (RERI) in Palo Alto, California, he also teaches at Imperial College in London, U.K. He has taught at Stanford University and the University of Texas, Austin. Author or coauthor of more than 100 technical papers, he has consulted on petroleum engineering projects in a number of countries, including the United States, Norway, and Iran.

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