

# **Equations of State and PVT Analysis: Applications for Improved Reservoir Modeling**

Tarek Ahmed



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Understanding the properties of a reservoir's fluids and creating a successful model based on lab data and calculation are required for every reservoir engineer in oil and gas today, and with reservoirs becoming more complex, engineers and managers are back to reinforcing the fundamentals. PVT (pressure-volume-temperature) reports are one way to achieve better parameters, and *Equations of State and PVT Analysis*, 2<sup>nd</sup> *Edition*, helps engineers to fine tune their reservoir problem-solving skills and achieve better modeling and maximum asset development. Designed for training sessions for new and existing engineers, *Equations of State and PVT Analysis*, 2<sup>nd</sup> *Edition*, will prepare reservoir engineers for complex hydrocarbon and natural gas systems with more sophisticated EOS models, correlations and examples from the hottest locations around the world such as the Gulf of Mexico, North Sea and China, and Q&A at the end of each chapter. Resources are maximized with this must-have reference.

- Improve with new material on practical applications, lab analysis, and real-world sampling from wells to gain better understanding of PVT properties for crude and natural gas
- Sharpen your reservoir models with added content on how to tune EOS parameters accurately
- Solve more unconventional problems with field examples on phase behavior characteristics of shale and heavy oil



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