



# Reservoir Engineering Handbook, Third Edition

By Tarek Ahmed PhD PE

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Reservoir engineering is the design and evaluation of field development and exploitation processes and programs. This topic encompasses the field of geology, drilling and completion, production engineering and reserves and evaluation.

This book details essential information as well as insight and is a comprehensive up-to-date reference tool for the reservoir engineers, petroleum engineers and engineering students alike. Acting as a guide to predicting oil reservoir performance this edition analyses through the analysis of oil recovery mechanisms and performance calculations, and spells out the fundamentals of reservoir engineering and their application through a comprehensive field study. Several examples from a wide variety of applications demonstrate the performance of processes under forceful conditions. Key relationships among the different operating variables are also thoroughly described.

- \* New chapters on decline and type curve analysis as well as reservoir simulation
- \* Updated material including the liquid volatility parameter, commonly designated  $R_v$
- \* Provides a guide to predicting oil reservoir performance through the analysis of oil recovery mechanisms and performance calculation

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#### Review

"...this publication provides a comprehensive and up-to-date reference tool for the reservoir engineer or reservoir engineering student. It covers reservoir fluid behaviour and properties, including laboratory analysis and reservoir fluid flow. It provides a guide to predicting oil reservoir performance through analysis of oil recovery mechanisms and performance calculations, and explains the fundamentals of reservoir engineering and their application through a comprehensive field study..." - Petroleum Review, May 2002

#### From the Publisher

Reservoir Engineering Handbook is a textbook for the engineering student as well as an invaluable guide for experienced engineers practicing in the field. This detailed and authoritative guide to reservoir engineering provides indispensable information on:

Reservoir Fluid Behavior and Properties·

Laboratory Analysis of Reservoir Fluids·

Fundamentals of Rock Properties and Reservoir Fluid Flow·

Relative Permeability Concepts·

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Water Influx calculations Models·

Oil Recovery Mechanisms and the Material Balance Equation·

Predicting Oil Reservoir Performance·

Material Balance Equation Applications in Oil and Gas Reservoirs

#### About the Author

Tarek Ahmed, Ph.D., P.E., is currently Founder of Tarek Ahmed and Associates, Ltd., a consulting firm that specializes in in-house petroleum engineering courses and consulting services worldwide. Prior to that, he was a Reservoir Engineering Advisor for Anadarko, Baker Hughes, and Gaffney, Cline and Associates and was a Professor and head of the Petroleum Engineering Department at Montana Tech of the University of Montana for 22 years. He earned his PhD from University of Oklahoma, his Masters from the University of Missouri-Rolla, and a BS from the Faculty of Petroleum in Egypt - all degrees in petroleum engineering. Dr. Ahmed has authored numerous papers and several successful books with Elsevier, including Reservoir Engineering Handbook, 4th Edition.

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