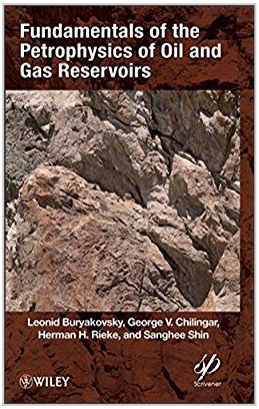

Fundamentals of the Petrophysics of Oil and Gas Reservoirs

By Leonid Buryakovsky, George V. Chilingar, Herman H. Rieke, Sanghee Shin

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Editorial Review

From the Back Cover

Written by some of the world's most renowned petroleum and environmental engineers, *Fundamentals of the Petrophysics of Oil and Gas Reservoirs* is the first book to offer the practicing engineer and engineering student these new cutting-edge techniques for prediction and forecasting in petroleum engineering and environmental management.

In this book, the authors combine a rigorous, yet easy to understand, approach to petrophysics and how it is applied to petroleum and environmental engineering to solve multiple problems that the engineer or geologist faces every day. Useful in the prediction of everything from crude oil composition, pore size distribution in reservoir rocks, groundwater contamination, and other types of forecasting, this approach provides engineers and students alike with a convenient guide to many real-world applications.

Petroleum geologists and engineers must have a working knowledge of petrophysics in order to find oil reservoirs and devise the best plan for getting it out of the ground, before drilling can begin. This book offers the engineer and geologist a fundamental guide for accomplishing these goals, providing much-needed calculations and formulas on fluid flow, rock properties, and many other topics that are encountered every day.

The approach taken in *Fundamentals of the Petrophysics of Oil and Gas Reservoirs* is unique and has not been addressed until now in book format. Readers now have the ability to review the historic development of relationships and equations to define critical petrophysics attributes, many of which have either never been covered in the literature on petrophysics.

Useful for the veteran engineer or scientist and the student alike, this book is a must-have for any geologist, engineer, or student working in the field of upstream petroleum engineering.

This groundbreaking new volume includes:

- How to achieve more efficient oil & gas production for the petroleum engineer and petroleum geologist
- More accurate forecasting for the environmental engineer
- Real-world examples for the engineering student
- Valuable new information not available anywhere else

About the Author

Leonid Buryakovsky, PhD, is a well-known specialist in petroleum geology, geophysics, petrophysics, geochemistry, and mathematical geology. For twenty-five years, Dr. Buryakovsky was the head of the Department of Petrophysics and Well Log Analysis and Interpretation at the Azerbaijan National Academy of Sciences. He was a professor at the Azerbaijan State Oil Academy in Baku, Azerbaijan, and he has published over 420 scientific and technical papers and twenty-two books. He has six patents and many awards to his name.

George V. Chilingar, PhD, is an Emeritus Professor of Engineering at the University of Southern

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Herman H. Rieke, PhD, is a Professor of Petroleum Engineering and Geology at the University of Louisiana at Lafayette. He has authored or coauthored seven technical books and over 120 technical papers. His accomplishments include many international honors from governments and academies.

Sanghee Shin is a Research Associate of Rudolf W. Gunnerman Energy and Environment Laboratory, University of Southern California, Los Angeles. He is the author of ten articles in the fields of electrokinetics and environmental science.

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