



Advanced Petroleum Reservoir Simulation

By M. R. Islam, S. Hossien Mousavizadegan, Shabbir Mustafiz, Jamal H. Abou-Kassem

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Advanced Petroleum Reservoir Simulation

Add precision and ease to the process of reservoir simulation. Until simulation software and other methods of reservoir characterization were developed, engineers had to drill numerous wells to find the best way to extract crude oil and natural gas. Today, even with highly sophisticated reservoir simulations software available, reservoir simulation still involves a great deal of guesswork. *Advanced Petroleum Reservoir Simulation* provides an advanced approach to petroleum reservoir simulation, taking the guesswork out of the process and relying more thoroughly on science and what is known about the individual reservoir.

This state of the art publication in petroleum simulation:

- Describes solution techniques that allow multiple solutions to the complete equations, without linearization.
- Solves the most difficult reservoir engineering problems such as viscous fingering.
- Highlights the importance of non-linear solvers on decision tree with scientific argument.
- Discusses solution schemes in relation to other disciplines and revolutionizes risk analysis and decision making.
- Includes companion software with 3-D, 3-phase multipurpose simulator code available for download from www.scrivenerpublishing.com.
- By providing a valuable tool to support reservoir simulation predictions with real science, this book is an essential reference for engineers, scientists and geologists.

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Editorial Review

From the Back Cover

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About the Author

M. R. Islam, PhD, is Professor of Petroleum Engineering at the Civil and Resource Engineering Department of Dalhousie University, Canada. He has over 700 publications to his credit, including 6 books. He is on the editorial boards of several scholarly journals, and, in addition to his teaching duties, he is also director of Emertec Research and Development Ltd. and has been on the boards of a number of companies in North America and overseas.

S. Hossein Mousavizadegan, PhD, is currently on the faculty of marine technology at the Amirkabir University of Technology in Tehran as an assistant professor, specializing in mathematical and numerical modeling of fluid dynamics.

Shabbir Mustafiz, PhD, is a research engineer with the Alberta Research Council in Edmonton, Canada. Shabbir has published over 25 journal articles and has a Ph.D. in Civil Engineering, on the topic of petroleum reservoir simulation, from Dalhousie University and he is the current SPE Scholarship Chair for the Edmonton Section.

Jamal H. Abou-Kassem, PhD, is Professor of Petroleum Engineering at the United Arab Emirates University, where he has taught since 1993. Abou-Kassem is a coauthor of two textbooks on reservoir simulation and an author or coauthor of numerous technical articles in the areas of reservoir simulation and other petroleum and natural gas-related topics.

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