



Advanced Petroleum Reservoir Simulation

M. R. Islam, S. H. Moussavizadegan, 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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