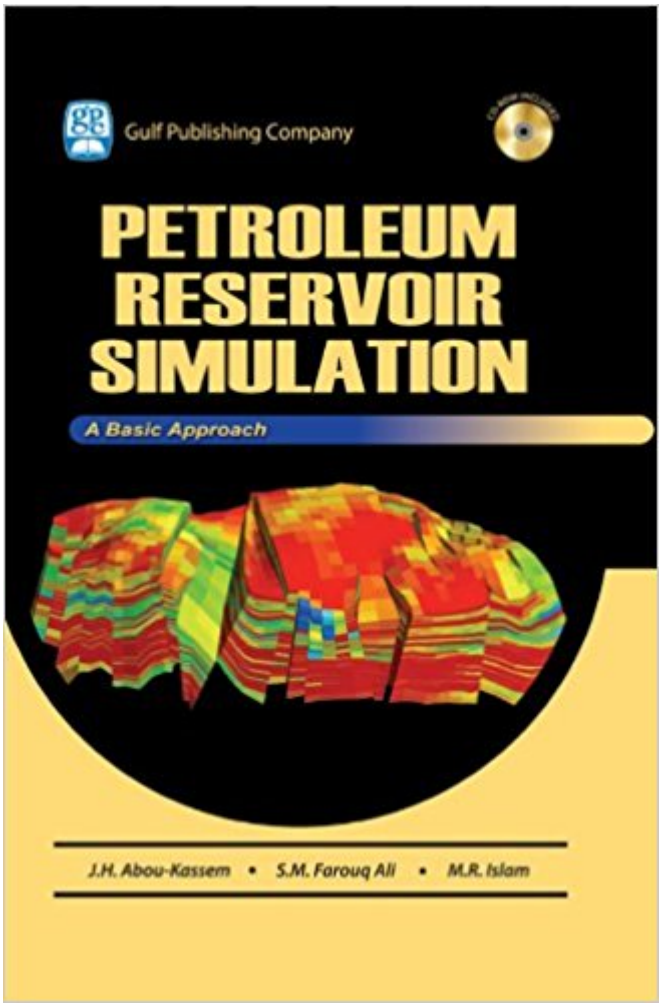
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Petroleum Reservoir Simulations



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Synopsis

In this highly anticipated volume, the world-renowned authors take a basic approach to present the principles of petroleum reservoir simulation in an easy-to-use and accessible format. Applicable to any oil and gas recovery method, this book uses a block-centered grid and a point-distributed grid. It treats various boundary conditions as fictitious wells, gives algebraic equations for their flowrates and presents an elaborate treatment of radial grid for single-well simulation to analyze well test results and to create well pseudo-functions necessary in conducting a practical reservoir simulation study.

Book Information

File Size: 50223 KB

Print Length: 488 pages

Publisher: Gulf Publishing Company (November 25, 2013)

Publication Date: November 25, 2013

Sold by:Ã Â Digital Services LLC

Language: English

ASIN: B00GFV9MOS

Text-to-Speech: Enabled

X-Ray: Not Enabled

Word Wise: Not Enabled

Lending: Not Enabled

Enhanced Typesetting: Enabled

Best Sellers Rank: #2,326,808 Paid in Kindle Store (See Top 100 Paid in Kindle Store) #80 inÃ Â Books > Engineering & Transportation > Engineering > Energy Production & Extraction > Alternative & Renewable > Hydroelectric #262 inÃ Â Kindle Store > Kindle eBooks > Engineering & Transportation > Engineering > Chemical > Petrochemical #268 inÃ Â Kindle Store > Kindle eBooks > Nonfiction > Science > Earth Sciences > Prospecting & Mining

Customer Reviews

This is a very good elemental textbook on reservoir simulation. It contains many exercises and examples along with the theory. A cd with software is provided in the back of the book, it contains a single phase reservoir simulator. The theory is based on an "engineering approach", which avoids the use of PDEs. I strongly recommend to use this book along with Ertenik-AbouKassem-King "Basic Applied Reservoir Simulation" (SPE textbook No 7), which contains the "mathematical

approach" needed to complement the "engineering approach".

This resourceful book introduces the novel engineering approach for petroleum reservoir modeling and operations simulations. The engineering approach used in this book adds engineering meaning to the mathematical differential equations and to the boundary conditions needed for reservoir simulations. This book represents an essential tool for any petroleum engineer or geologist.By writing this book, the authors not only publish a cutting-edge document dealing with petroleum reservoir simulations, but also offer all students, scientists, and engineers a suitable and handy tool to solve various simulation problems in engineering and science.Overall, this book can benefit all practicing engineers as well as students and scientists.

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