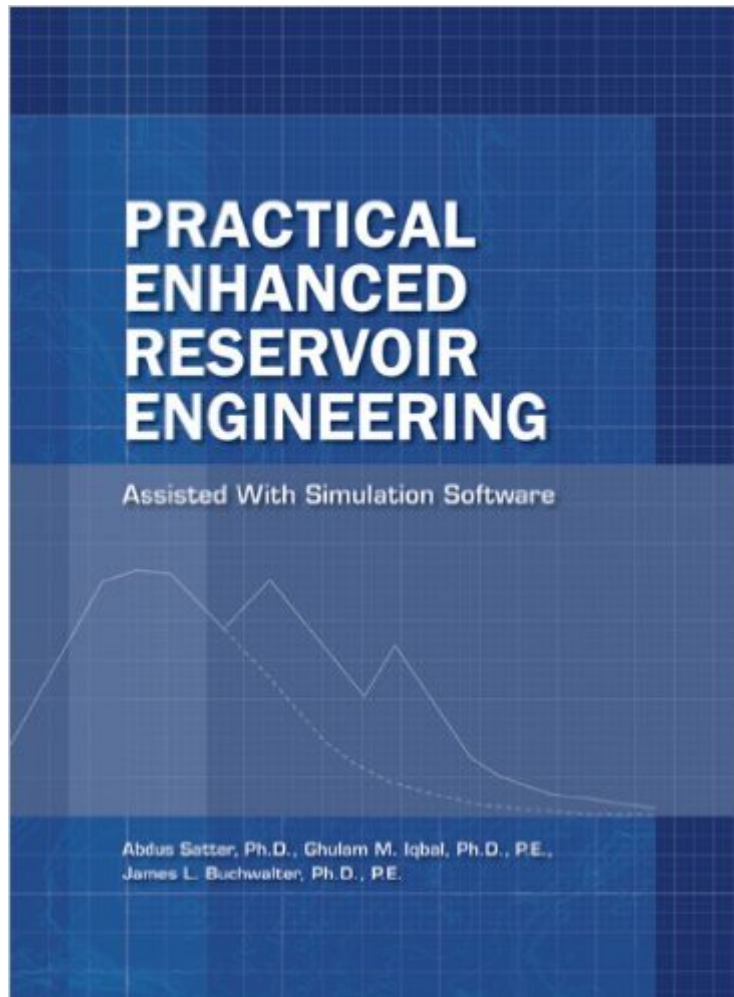# Practical Enhanced Reservoir Engineering: Assisted With Simulation Software

# Synopsis

This book is intended to be a reservoir engineering book for college students, but it's not the usual college text book. It is a modern and very practical guide offering reservoir engineering fundamentals, advanced reservoir related topics, reservoir simulation fundamentals, and problems and case studies from around the world. It is designed to aid students and professionals alike in their active and important roles throughout the reservoir life cycle (discovery, delineation, development, production, and abandonment), and in the various phases of the reservoir management process (setting strategy, developing plan, implementing, monitoring, evaluating, and completing). Benefits & Features:The authors bring to this book their life-long experience and expertise in reservoir engineering and simulation techniques and practice. The goal is to present a comprehensive book, starting from basic principles and leading to real-life reservoir management aided by simulation. This practical book explores the functions of reservoir engineers, and how they analyze, think and work in real life situations. It presents:_ Rock and fluid properties, fluid flow principles, well test analysis, and reservoir performance analysis techniques._ New topics such as reserves, reservoir economics, risk and uncertainties, probabilistic methods, and recovery processes._ Role of reservoir simulation models in enhancing basic reservoir engineering concepts and practice. Computer-based tools, including reservoir simulation, are used extensively in this book to illustrate various concepts related to reservoir engineering. Finally, the book offers class projects where the students can apply what they have learned to treat their problems. This book will serve the students and the industry well.

# Book Information

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## Customer Reviews

This is your general reference book on reservoir simulation. It is mostly up to date (and certainly newer than most other reference books on the topic of reservoir simulation). I purchased this book in the hopes that it may have examples from the Merlin reservoir simulator (from Gemini Solutions; Buchwalter himself is one of the developers). Unfortunately, there were only a few screenshots from the Merlin simulator. The examples in this book may prove to be helpful in lack of data.One redeeming quality of this book is the content you find in the discussion paragraphs that precede and follow the equations and calculations. These discussion areas provide the real "practicality" that's needed in reservoir simulation.

I'm a Chemical Engineering student and I was required to purchase this book for a masters level course (I'm still going for a Bachelors). This book is great, it is widely considered as the encyclopedia for Petroleum Engineering and it was only published a few months ago. Great book, everything is explained in here and there are plenty of examples.

This one delivers as promised. Comprehensive, detailed, and easily read. I wish I had this book 25 years ago.

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