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He was an SPE Distinguished Lecturer in 1996–1997 and received the SPE Production Engineering Award in 2000. He has been an SPE Distinguished Member since 2004 and has served on many SPE committees. Mukherjee holds a BS in petroleum engineering from the Indian School of Mines in Dhanbad, India, and MS and PhD degrees in petroleum engineering from The University of Tulsa, Oklahoma.

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He is the editor of the SPE Reprint Series Vol. 52, Gas Reservoir Engineering, and Vol. 57, Pressure Transient Testing, and coauthor of SPE Textbook Series Vol. 9, Pressure Transient Testing and has published numerous papers and articles in industry journals and trade publications. He received a BS Physics from Abilene Christian University, a MS in Physics from the University of Washington, a ...

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Prior to beginning his career in academia, Lee managed Exxon ' s Major Fields Study Group. He has written many technical papers and four SPE textbooks: Well Testing, Gas Reservoir Engineering, Pressure Transient Testing, and Applied Well Test Analysis. Lee is an Honorary Member of SPE and a member of the US National Academy of Engineering.

Gas Reservoir Engineering provides the undergraduate as well as the graduate student with an introduction to fundamental problem solving in gas reservoir engineering through practical equations and methods. Although much oil well technology applies to gas wells, many differences exist. This book helps students understand and recognize these differences to enable appropriate handling of gas reservoir problems. Natural gas production has become increasingly important in the U.S., and the wellhead revenue generated from it is now greater than the wellhead revenue generated from oil production. Because this trend eventually will be followed worldwide, we feel that it is important to emphasize gas reservoir engineering courses at the undergraduate level and to have a textbook devoted to this purpose. This book also serves as an introduction to gas reservoir engineering for graduate students and practicing petroleum engineers. Although much of the technology for oil wells applies to gas wells, there are still many differences. It is important to learn these differences and to have a good, fundamental background in how to recognize and handle them. We have tried to provide practical equations and methods while emphasizing the fundamentals on which they are based. We have not attempted to be complete in the sense of presenting the best-known solution(s) to all problems in this area of technology. In many cases, we didn't even present the problem, much less a solution. Instead, we concentrated on fundamentals and hope to have made the literature in gas reservoir engineering more accessible both now and in the future. If you don't find your favorite topic in the table of contents or in the index, it simply didn't make our short list of fundamentals that we believed to be key parts of the literature.

Fundamental Principles of Reservoir Engineering outlines the techniques required for the basic analysis of reservoirs prior to simulation. It reviews rock and fluid properties, reservoir statics, determination of original oil and gas in place

Reservoir simulation has been in practice for more than 50 years, but it has recently gained significant momentum because of its wider application to the increasingly complex reservoir systems of today. Reservoir Simulation: Problems and Solutions provides petroleum engineers with extensive practice in the art of problem solving, strengthening their critical-thinking solution strategies and preparing them for the unique problems they will encounter in this dynamic field. Built on the fundamental concepts and solutions of the original exercises found in Basic Applied Reservoir Simulation (Turgay Ertekin, Jamal H. Abou-Kassem, and Gregory R. King), this new book provides an additional 180 exercises and solutions that fully illustrate the intricacies of reservoir-simulation methodology. Turgay Ertekin is Professor Emeritus of Petroleum and Natural Gas Engineering at the Pennsylvania State University, where he has been a member of the faculty for more than 40 years. Qian Sun is a research engineer at New Mexico Institute of Mining and Technology. His research focuses mainly on numerical reservoir simulation and artificial-intelligence applications in reservoir Engineering. Jian Zhang is a PhD graduate at Penn State. His research focuses on rate- and pressure-transient analysis, numerical reservoir simulation, artificial neural networks and neuro-simulation.

Data Analytics in Reservoir Engineering describes the relevance of data analytics for the oil and gas industry, with particular emphasis on reservoir engineering.

The practical aspects of analyzing production performance has changed due to the increased exploitation efforts in unconventional reservoirs. Analysis of Oil and Gas Production Performance expands on these developing well-evaluation procedures and includes the latest best practices for new areas of shale and tight formation reservoirs. Built on the core fundamentals of curve analysis found in Poston and Poe's book, Analysis of Production Decline Curves, this new book is intended for engineers, geologists, and anyone working in the oil and gas industry with an interest in production forecasting of conventional and unconventional resources for evaluation and development. This book is intended for engineers, geologists, and anyone working in the oil and gas industry with an interest in production forecasting of conventional and

unconventional resources for evaluation and development. The majority of the book is concerned with commonly observed oilfield practice and practical solutions to the problems encountered therein. Each chapter begins with a workflow diagram that, in essence, provides the reader with the learning objectives of the chapter. A primary focus of the book is to instill each reader with the competency to solve typical operational problems with minimal exposure to the complexity of the underlying mathematics and equations. The basics and utility of each equation are discussed; however, the focus is on the practical application of the underlying technology to real-life problems. There are numerous illustrations and solutions to typical field problems included for the reader.

The development of tight-gas reservoirs over the last half-century has profoundly affected and expanded the petroleum industry. Moreover, our improved understanding of tight-gas reservoirs--from finding, characterizing, testing, modeling and developing them to producing their resources economically--can be felt not only throughout our industry but also throughout our economy and, indeed, our daily routines. Abundant, reliable, and inexpensive natural gas has truly transformed many aspects of our modern lifestyles. Within the last decade, for example, the world has made great strides in switching from coal-fired to gas-fired electricity generation (with a resulting reduction of US CO2 emissions of 14% since 2005*). Our expanded knowledge of natural-gas development and production has further advanced the goal of achieving energy independence, transforming the US from a gas importer into the third largest liquid natural gas (LNG) exporter in the world. It is truly hard to overstate the efficacy of our understanding and exploitation of tight-gas reservoirs. The four parts contained in this book methodically and comprehensively unfold the technical elements of developing tight-gas reservoirs. They are written - with an industry-wide audience in mind - to help the student understand fundamental concepts - to provide comprehensive reference material for the experienced engineer - for the practitioner in the field looking for case studies and analogues - for those readers curious of mathematical detail and theory, where it will surely lay the foundation for many future academic investigations and doctoral theses This book is comprehensive enough to apply equally to those readers interested in tight-oil reservoirs--common fundamentals, many similar concepts, just larger molecules. This book's organization supports its methodological approach. Part 1 introduces tight-gas resources, including definitions and beginning concepts. Thorough analyses of tight-gas resource types (conventional, shale, and coalbed methane) and their geographical distribution and reserves are given. This part describes shale-gas plays within North America in detail. Part 2 begins where the study of all reservoirs begin, with detailed characterization. Chapters within this part discuss geological considerations over various scales, as well as detailed concepts in well testing and modeling to determine necessary formation properties. Part 3 details all aspects of designing, planning, modeling, and executing hydraulic fracture treatments and provides details on fracture initiation, geometry, and propagation. Part 4 contains 23 case histories of tight gas reservoir development.

This book covers all aspects of estimating and classifying reserves of crude oil, natural gas, and condensate attributed to primary recovery mechanisms. Both deterministic and probabilistic procedures are discussed. Reserves definitions for many of the major producing countries are provided, including a comparison of the US Securities and Exchange Commission and Society of Petroleum Engineers-World Petroleum Congress reserves definitions. Case histories illustrate reasons for errors in reserves estimation. Correlation charts and empirical equations to estimate pressure/volume/temperature properties of reservoir fluids are provided in one of several special appendices.

Reservoir Engineering focuses on the fundamental concepts related to the development of conventional and unconventional reservoirs and how these concepts are applied in the oil and gas industry to meet both economic and technical challenges. Written in easy to understand language, the book provides valuable information regarding present-day tools, techniques, and technologies and explains best practices on reservoir management and recovery approaches. Various reservoir workflow diagrams presented in the book provide a clear direction to meet the challenges of the profession. As most reservoir engineering decisions are based on reservoir simulation, a chapter is devoted to introduce the topic in lucid fashion. The addition of practical field case studies make Reservoir Engineering a valuable resource for reservoir engineers and other professionals in helping them implement a comprehensive plan to produce oil and gas based on reservoir modeling and economic analysis, execute a development plan, conduct reservoir surveillance on a continuous basis, evaluate reservoir performance, and apply corrective actions as necessary. Connects key reservoir fundamentals to modern engineering applications Bridges the conventional methods to the unconventional, showing the differences between the two processes Offers field case studies and workflow diagrams to help the reservoir professional and student develop and sharpen management skills for both conventional and unconventional reservoirs

Working Guide to Reservoir Engineering provides an introduction to the fundamental concepts of reservoir engineering. The book begins by discussing basic concepts such as types of reservoir fluids, the properties of fluid containing rocks, and the properties of rocks containing multiple fluids. It then describes formation evaluation methods, including coring and core analysis, drill stem tests, logging, and initial estimation of reserves. The book explains the enhanced oil recovery process, which includes methods such as chemical flooding, gas injection, thermal recovery, technical screening, and laboratory design for enhanced recovery. Also included is a discussion of fluid movement in waterflooded reservoirs. Predict local variations within the reservoir Explain past reservoir performance Predict future reservoir performance of field Analyze economic optimization of each property Formulate a plan for the development of the field throughout its life Convert data from one discipline to another Extrapolate data from a few discrete points to the entire reservoir