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Gas Reservoir Engineering (SPE textbook series): Lee, W ...

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

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.

Volume I, General Engineering, includes chapters on mathematics, fluid properties (fluid sampling techniques; properties and correlations of oil, gas, condensate, and water; hydrocarbon phase behavior and phase diagrams for hydrocarbon systems; the phasebehavior of water/hydrocarbon systems; and the properties of waxes, asphaltenes, and crude oil emulsions), rock properties (bulk rock properties, permeability, relative permeability, and capillary pressure), the economic and regulatory environment, and the role of fossil energy in the 21st century energy mix (from SPE Website).

This book deals with complex fluid characterization of oil and gas reservoirs, emphasizing the importance of PVT parameters for practical application in reservoir simulation and management. It covers modeling of PVT parameters, QA/QC of PVT data from lab studies, EOS modeling, PVT simulation and compositional grading and variation. It describes generation of data for reservoir engineering calculations in view of limited and unreliable data and techniques like downhole fluid analysis and photophysics of reservoir fluids. It discusses behavior of unconventional reservoirs, particularly for difficult resources like shale gas, shale oil, coalbed methane, reservoirs, heavy and extra heavy oils.

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 revised edition of the bestselling Practice of Reservoir Engineering has been written for those in the oil industry requiring a working

knowledge of how the complex subject of hydrocarbon reservoir engineering can be applied in the field in a practical manner. Containing additions and corrections to the first edition, the book is a simple statement of how to do the job and is particularly suitable for reservoir/production engineers as well as those associated with hydrocarbon recovery. This practical book approaches the basic limitations of reservoir engineering with the basic tenet of science: Occam's Razor, which applies to reservoir engineering to a greater extent than for most physical sciences - if there are two ways to account for a physical phenomenon, it is the simpler that is the more useful. Therefore, simplicity is the theme of this volume. Reservoir and production engineers, geoscientists, petrophysicists, and those involved in the management of oil and gas fields will want this edition.