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Sophisticated analytic models are needed to accurately describe fluid flow in a hydraulic fracture, and the problem has been approached from different directions in the past 3 decades--starting with the work of Gringarten et al. (1974) for an infinite-conductivity case, followed by contributions from Cinco-Ley et al. (1978), Lee and Brockenbrough (1986), Ozkan and Raghavan (1991), and ...

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.

This book is intended to be a reservoir engineering book for college students, but it is not the usual college textbook. 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 offers all this information with guidelines on how to assist these processes with the use of simulation software (software not included). 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).

Working Guide to Reservoir Rock Properties and Fluid Flow provides an introduction to the properties of rocks and fluids that are essential in petroleum engineering. The book is organized into three parts. Part 1 discusses the classification of reservoirs and reservoir fluids. Part 2 explains different rock properties, including porosity, saturation, wettability, surface and interfacial tension, permeability, and compressibility. Part 3 presents the mathematical relationships that describe the flow behavior of the reservoir fluids. The primary reservoir characteristics that must be considered include: types of fluids in the reservoir, flow regimes, reservoir geometry, and the number of flowing fluids in the reservoir. Each part concludes with sample problems to test readers knowledge of the topic covered. Critical properties of reservoir rocks Fluid (oil, water, and gas) PVT relationships Methods to calculate hydrocarbons initially in place Dynamic techniques to assess reservoir performance Parameters that impact well/reservoir performance over time

Thanks to technology, fractured carbonate gas reservoirs are becoming more discoverable, but because these assets are more complex and diverse, there is a

high level of difficulty in understanding how to plan design and performance analysis. Dynamic Description Technology of Fractured Vuggy Gas Reservoirs delivers a critical reference to reservoir and production engineers on all the basic characteristics of fractured vuggy gas reservoirs and combines both static and dynamic data to improve the reservoir characterization accuracy and development. Based on the full life cycle of well testing and advanced production decline analysis, this reference also details how to apply reservoir dynamic evaluation, reserve estimation, and performance forecasting. Offering one collective location for the latest research on fractured gas reservoirs, the reference also covers: Physical models, analysis examples, and processes 3D numerical well test analysis technology Deconvolution technology of production decline analysis Packed with many calculation examples and more than 100 case studies, Dynamic Description Technology of Fractured Vuggy Gas Reservoirs gives engineers a strong tool to further exploit these complex assets. Gain advanced knowledge in well test and production decline analysis as well as performance forecasting specific to fractured vuggy carbonate gas reservoirs Understand the characteristics, advantages, disadvantages, and current limitations in technology of fractured vuggy carbonate gas reservoirs Bridge from theory to practice by combining static and dynamic data to form more accurate real-world analysis and modelling

This book provides a clear and basic understanding of the concept of reservoir engineering to professionals and students in the oil and gas industry. The content contains detailed explanations of key theoretic and mathematical concepts and provides readers with the logical ability to approach the various challenges encountered in daily reservoir/field operations for effective reservoir management. Chapters are fully illustrated and contain numerous calculations involving the estimation of hydrocarbon volume in-place, current and abandonment reserves, aquifer models and properties for a particular reservoir/field, the type of energy in the system and evaluation of the strength of the aquifer if present. The book is written in oil field units with detailed solved examples and exercises to enhance practical application. It is useful as a professional reference and for students who are taking applied and advanced reservoir engineering courses in reservoir simulation, enhanced oil recovery and well test analysis.

Natural gas, especially unconventional gas, has an increasingly important role in meeting the world's energy needs. Experts estimate that it has the potential to add anywhere from 60-250% to the global proven gas reserve in the next two decades. To maintain pace with increasing global demand, Unconventional Gas Reservoirs provides the necessary bridge into the newer processes, approaches and designs to help identify these more uncommon reservoirs available and how to maximize its unconventional potential. Loaded with reservoir development and characterization strategies, this book will show you how to: Recognize the challenges and opportunities surrounding unconventional gas reservoirs Distinguish among the various types of unconventional reservoirs, such as shale gas, coalbed methane, and tight gas formations Drill down and quantify the reservoir's economic potential and other critical considerations Gain practical insights and tools to efficiently identify, appraise, and develop unconventional gas reservoirs Understand various techniques used to analyze reservoir parameters and performance as well as how they were applied to numerous real-world case studies Upgrade to the latest information on perspectives and insights with discussion of key differences used for today's unconventional gas characterization versus original conventional methods that failed in the past

Unconventional Reservoir Rate-Transient Analysis: Volume One, Fundamentals, Analysis Methods and Workflow provides a comprehensive review of RTA methods, helping petroleum engineers and geoscientists understand how to confidently apply RTA to tight reservoirs exhibiting single-phase flow of oil and gas. The book provides practitioners with an overview of the basic concepts used in RTA, including flow-regime identification and application of straight-line analysis, type-curve analysis, and model history-matching approaches that are applicable to low-complexity, tight reservoirs exhibiting single-phase flow of oil and gas. Workflow steps are discussed and illustrated in detail for hydraulically fractured vertical wells and multi-fractured horizontal wells. Supported by many real-world field examples, this comprehensive resource supplies today's petroleum engineers and geoscientists with an overview of RTA methods as applied to tight reservoirs. A companion text, Unconventional Reservoir Rate-Transient Analysis: Volume Two, Application to Complex Reservoirs, Exploration and Development bridges a critical knowledge gap to help practicing petroleum engineers and geoscientists understand how RTA methods can be adopted and applied to today's unconventional reservoirs. Reviews key concepts and analysis methods used in modern rate-transient analysis (RTA) as applied to low-permeability ("tight") oil and gas reservoirs Provides a workflow for confident derivation of reservoir/hydraulic fracture properties and hydrocarbon-in-place estimates for wells completed in unconventional reservoirs Includes detailed discussions and illustrations of each step of the workflow using field examples

Petroleum Production Engineering, Second Edition, updates both the new and veteran engineer on how to employ day-to-day production fundamentals to solve real-world challenges with modern technology. Enhanced to include equations and references with today's more complex systems, such as working with horizontal wells, workovers, and an entire new section of chapters dedicated to flow assurance, this go-to reference remains the most all-inclusive source for answering all upstream and midstream production issues. Completely updated with five sections covering the entire production spectrum, including well productivity, equipment and facilities, well stimulation and workover, artificial lift methods, and flow assurance, this updated edition continues to deliver the most practical applied production techniques, answers, and methods for today's production engineer and manager. In addition, updated Excel spreadsheets that cover the most critical production equations from the book are included for download. Updated to cover today's critical production challenges, such as flow assurance, horizontal and multi-lateral wells, and workovers Guides users from theory to practical application with the help of over 50 online Excel spreadsheets that contain basic production equations, such as gas lift potential, multilateral gas well deliverability, and production forecasting Delivers an all-inclusive product with real-world answers for training or quick look up solutions for the entire petroleum production spectrum

The aim of this book is to present some advances in different aspects of oil and gas technology. Two chapters are dedicated to the scientific research in the domain of reservoir engineering and characterization. Four chapters are dedicated to the field of well drilling and performance and another chapter is related to oil and transport.

Reservoir engineering is the design and evaluation of field development and exploitation processes and programs. This topic encompasses the field of geology, drilling and completion, production engineering and reserves and evaluation. This book details essential information as well as insight and is a comprehensive up-to-date reference tool for the reservoir engineers, petroleum engineers and engineering students alike. Acting as a guide to predicting oil reservoir performance this edition analyses through the analysis of oil recovery mechanisms and performance calculations, and spells out the fundamentals of reservoir engineering and their application through a comprehensive field study. Several examples from a wide variety of applications demonstrate the performance of processes under forceful conditions. Key relationships among the different operating variables are also thoroughly described. * New chapters on decline and type curve analysis as well as reservoir simulation * Updated material including the liquid volatility parameter, commonly designated R_v * Provides a guide to predicting oil reservoir performance through the analysis of oil recovery mechanisms and performance calculation