

DEVELOPMENTS IN PETROLEUM SCIENCE 29

AN INTERNATIONAL JOURNAL OF PETROLEUM SCIENCE

fundamentals of gas reservoir engineering

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Fundamentals Of Gas Reservoir Engineering

Abdus Satter, Ghulam M. Iqbal



Fundamentals Of Gas Reservoir Engineering:

Fundamentals of Gas Reservoir Engineering J. Hagoort, 1988-06-01 Gas reservoir engineering is the branch of reservoir engineering that deals exclusively with reservoirs of non associated gas The prime purpose of reservoir engineering is the formulation of development and production plans that will result in maximum recovery for a given set of economic environmental and technical constraints This is not a one time activity but needs continual updating throughout the production life of a reservoir The objective of this book is to bring together the fundamentals of gas reservoir engineering in a coherent and systematic manner It is intended both for students who are new to the subject and practitioners who may use this book as a reference and refresher Each chapter can be read independently of the others and includes several completely worked exercises These exercises are an integral part of the book they not only illustrate the theory but also show how to apply the theory to practical problems Chapters 2 3 and 4 are concerned with the basic physical properties of reservoirs and natural gas fluids insofar as of relevance to gas reservoir engineering Chapter 5 deals with the volumetric estimation of hydrocarbon fluids in place and the recoverable hydrocarbon reserves of gas reservoirs Chapter 6 presents the material balance method a classic method for the analysis of reservoir performance based on the Law of Conservation of Mass Chapters 7 10 discuss various aspects of the flow of natural gas in the reservoir and the wellbore single phase flow in porous and permeable media gaswell testing methods based on single phase flow principles the mechanics of gas flow in the wellbore the problem of water coning the production of water along with the gas in gas reservoirs with underlying bottom water Chapter 11 discusses natural depletion the common development option for dry and wet gas reservoirs The development of gas condensate reservoirs by gas injection is treated in Chapter 12 Appendix A lists the commonly used units in gas reservoir engineering along with their conversion factors Appendix B includes some special physical and mathematical constants that are of particular interest in gas reservoir engineering Finally Appendix C contains the physical properties of some common natural gas components

Fundamentals of Gas Reservoir Engineering Jacques Hagoort, 1988

Fundamentals of Reservoir Engineering L.P. Dake, 1983-01-01 This book is fast becoming the standard text in its field wrote a reviewer in the Journal of Canadian Petroleum Technology soon after the first appearance of Dake s book This prediction quickly came true it has become the standard text and has been reprinted many times The author s aim to provide students and teachers with a coherent account of the basic physics of reservoir engineering has been most successfully achieved No prior knowledge of reservoir engineering is necessary The material is dealt with in a concise unified and applied manner and only the simplest and most straightforward mathematical techniques are used This low priced paperback edition will continue to be an invaluable teaching aid for years to come

Reservoir Engineering Sylvester Okotie, Bibobra Ikporo, 2018-11-22 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.

Basics of Reservoir Engi... R. Cossé, Gas Reservoir Engineering W. John Lee, Robert A. Wattenbarger, 1996. 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 solutions 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.

Fundamentals of Applied Reservoir Engineering Richard Wheaton, 2016-04-20. Fundamentals of Applied Reservoir Engineering introduces early career reservoir engineers and those in other oil and gas disciplines to the fundamentals of reservoir engineering. Given that modern reservoir engineering is largely centered on numerical computer simulation and that reservoir engineers in the industry will likely spend much of their professional career building and running such simulators, the book aims to encourage the use of simulated models in an appropriate way and exercising good engineering judgment to start the process for any field by using all available methods, both modern simulators and simple numerical models, to gain an understanding of the basic dynamics of the reservoir, namely, what are the major factors that will determine its performance. With the valuable addition of questions and exercises, including online

spreadsheets to utilize day to day application and bring together the basics of reservoir engineering coupled with petroleum economics and appraisal and development optimization Fundamentals of Applied Reservoir Engineering will be an invaluable reference to the industry professional who wishes to understand how reservoirs fundamentally work and to how a reservoir engineer starts the performance process Covers reservoir appraisal economics development planning and optimization to assist reservoir engineers in their decision making Provides appendices on enhanced oil recovery gas well testing basic fluid thermodynamics and mathematical operators to enhance comprehension of the book s main topics Offers online spreadsheets covering well test analysis material balance field aggregation and economic indicators to help today s engineer apply reservoir concepts to practical field data applications Includes coverage on unconventional resources and heavy oil making it relevant for today s worldwide reservoir activity

Fundamental Principles of Reservoir Engineering Brian F. Towler,2002 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 Engineering Handbook Tarek Ahmed,2006-04-27 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

Fundamentals and Practical Aspects of Gas Injection Reza Azin,Amin Izadpanahi,2021-07-28 This book covers different aspects of gas injection from the classic pressure maintenance operation to enhanced oil recovery EOR underground gas storage UGS and carbon capture and storage CCS The authors detail the unique characteristics and specific criteria of each application including material balance equations phase behaviour reservoir engineering well design operating aspects surface facilities environmental issues Examples data and simulation codes are provided to enable the reader to gain an in depth understanding of these applications Fundamentals and Practical Aspects of Gas Injection will be of use to practising engineers in the fields of reservoir engineering and enhanced oil recovery It will also be of interest to researchers academics and graduate students working in the field of petroleum engineering

Engineering Fundamentals Jack Calhoun,1985

Reservoir Engineering Abdus Satter,Ghulam

M. Iqbal, 2015-09-22 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 makes 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. **Thermal Properties and**

Temperature-Related Behavior of Rock/Fluid Systems W.H. Somerton, 1992-03-02 This book brings together for the first time the results of research on the thermal properties and temperature related behavior of rocks with their contained fluids under subsurface environmental conditions. These data are of increasing importance with increased application of underground processes involving high temperature and in some cases low temperature environments. Some of the important processes are described in which thermal data are needed. Chapters deal with thermal properties of rocks including heat capacities, thermal conductivities, and thermal diffusivities under conditions simulating subsurface environments. Discussion about the difficulty in measuring thermal properties of rock fluid systems is included along with newly developed models for predicting thermal properties from more easily measured properties. The effects of thermal reactions in rocks, differential thermal expansion, and thermal alterations are discussed in separate chapters. The effects of temperature on rock properties as distinct from the irreversible effects of heating are reviewed. Lastly, the book deals with wellbore applications of thermal and high temperature behavior of rocks and methods of deducing thermal properties from geophysical logs run in boreholes. Appendices include thermal units conversion factors and thermal properties of some typical reservoir rocks and fluids.

Fundamentals of Reservoir Engineering John C. Calhoun, 1953 **Fundamentals of reservoir engineering** L. P. Dake, 1978 Applied Petroleum Reservoir Engineering Ronald E. Terry, J. Brandon Rogers, Benjamin Cole Craft, 2015 This book presents many real field examples demonstrating the use of material balance and history matching to predict reservoir performance. For the first time, this edition uses Microsoft Excel with VBA as its calculation tool, making calculations far easier and more intuitive for today's readers. Beginning with an introduction of key terms, detailed coverage of the material

balance approach and progressing through the principles of fluid flow water influx and advanced recovery techniques this book will be an asset to students without prior exposure to petroleum engineering with this text updated to reflect modern industrial practice

Basics of Reservoir Engineering Sanjay Walia, 2015-03 Reservoir engineering is a branch of petroleum engineering that applies scientific principles to the drainage problems arising during the development and production of oil and gas reservoirs so as to obtain a high economic recovery The working tools of the reservoir engineer are subsurface geology applied mathematics and the basic laws of physics and chemistry governing the behaviour of liquid and vapour phases of crude oil natural gas and water in reservoir rock Of particular interest to reservoir engineers is generating accurate reserves estimates for use in financial reporting to the SEC and other regulatory bodies Other job responsibilities include numerical reservoir modelling production forecasting well testing well drilling and workover planning economic modelling and PVT analysis of reservoir fluids

Gas Abstracts, 1993

Standard Handbook of Petroleum and Natural Gas Engineering William Lyons, Gary J Plisga BS, Michael Lorenz, 2015-12-08 Standard Handbook of Petroleum and Natural Gas Engineering Third Edition provides you with the best state of the art coverage for every aspect of petroleum and natural gas engineering With thousands of illustrations and 1 600 information packed pages this handbook is a handy and valuable reference Written by dozens of leading industry experts and academics the book provides the best most comprehensive source of petroleum engineering information available Now in an easy to use single volume format this classic is one of the true must haves in any petroleum or natural gas engineer s library A classic for over 65 years this book is the most comprehensive source for the newest developments advances and procedures in the oil and gas industry New to this edition are materials covering everything from drilling and production to the economics of the oil patch Updated sections include underbalanced drilling integrated reservoir management and environmental health and safety The sections on natural gas have been updated with new sections on natural gas liquefaction processing natural gas distribution and transport Additionally there are updated and new sections on offshore equipment and operations subsea connection systems production control systems and subsea control systems Standard Handbook of Petroleum and Natural Gas Engineering Third Edition is a one stop training tool for any new petroleum engineer or veteran looking for a daily practical reference Presents new and updated sections in drilling and production Covers all calculations tables and equations for every day petroleum engineers Features new sections on today s unconventional resources and reservoirs

Standard Handbook of Petroleum and Natural Gas Engineering: Volume 2 William C. Lyons, 1996-10-16 Volume 2 presents the industry standards and practices for reservoir engineering and production engineering It also looks at all aspects of petroleum economics and shows how to estimate oil and gas reserves

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