



# Fundamentals Of Gas Reservoir Engineering

**Saeid Mokhatab, William A. Poe, John Y.  
Mak**

## **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      *Asphaltenes and Asphalts, 1* G.V. Chilingarian,T.F. Yen,1994-09-08 This is the first volume of a two volume set of critical reviews of many aspects of both asphaltenes and asphalts and their interrelationship Asphaltene is invariably present in asphalt or bitumen and other fossil fuel derived liquids such as coal tar coal liquefaction products pyrolyzed shale oil from oil shales source rock extracts and numerous naturally occurring bituminous substances The latter include asphaltites asphaltoids waxes and carbonaceous deposits containing a composition of petroleum and coal The contents cover not only the basic science of asphaltene but also deal with the applications and technology such as upstreams production recovery and down streams refining upgrading of petroleum and the paving technology and formulation preparation The main features of the book are it provides an up to date in depth review of every aspect of asphaltenes and asphalts it spans five decades of research and technology of heavy fractions of petroleum it presents a global view of asphaltene related to exploration production refining and upgrading The book will be welcomed as a valuable reference source for petroleum companies research institutes refineries universities and also by individuals dealing with the production origin formation engineering conversion and catalysis of heavy oil tar sands and other bitumens materials      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      *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 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

**Fundamentals of reservoir engineering** L. P. Dake, 1978      Physics of Petroleum Reservoirs Xuetao Hu, Shuyong Hu, Fayang Jin, Su Huang, 2017-08-08 This book introduces in detail the physical and chemical phenomena and processes during petroleum production It covers the properties of reservoir rocks and fluids the related methods of determining these properties the phase behavior of hydrocarbon mixtures the microscopic mechanism of fluids flowing through reservoir rocks and the primary theories and methods of enhancing oil recovery It also involves the up to date progress in these areas It can be used as a reference by researchers and engineers in petroleum engineering and a textbook for students majoring in the area related with petroleum exploitation

**Studies in Abnormal Pressures** W.H. Fertl, R.E. Chapman, R.F. Hotz, 1994-02-01 When Fertl's first book Abnormal Formation Pressures was published by Elsevier in 1976 the topic was relatively new in book form In the years that followed his book became the standard work for petroleum engineers and drillers The list of major petroleum provinces with abnormally high pore pressures has grown steadily over the years and with it has grown our knowledge and experience There have also been technological advances A new book was required but no longer could the topic be covered adequately by one person The problems of abnormally high formation pressures encountered in the subsurface while drilling for petroleum are very diverse involving geologists geophysicists reservoir engineers drilling engineers and borehole logging engineers The acute anticipation of such pressures before drilling has become possible with modern technology This book treats these developments and covers the following topics world occurrences the geology of abnormal pore pressures and the background theory reservoir engineering aspects of abnormally pressured reservoirs detection of abnormal pressures by geophysical methods before drilling and during drilling and their evaluation after drilling It examines the special problems of shallow hazards from shallow abnormal pressures and relief well engineering to control blowouts It also examines the generation of abnormal pressures from hydrocarbon generation in the Rocky Mountains and the distribution of abnormal

pressures in south Louisiana USA The topics are examined from a practical point of view with a theoretical background There is a glossary of terms and a relevant practical conversion table Both SI units and the conventional US oil industry units are used **Petroleum and Marine Technology Information Guide** J. Hutcheon,A. Myers,S. Oue,B. Rodden,J.

Whittick,2003-09-02 First published in 1981 as the Offshore Information Guide this guide to information sources has been hailed internationally as an indispensable handbook for the oil gas and marine industries Casing Design - Theory and Practice S.S. Rahman,G.V. Chilingarian,1995-08-01 Casing design has followed an evolutionary trend and most improvements have been made due to the advancement of technology Contributions to the technology in casing design have come from fundamental research and field tests which have made casing safe and economical This book gathers together much available information in the subject area and shows how it may be used in deciding the best procedure for casing design i e optimizing casing design for deriving maximum profit from a particular well The problems and their solutions which are provided in each chapter and the computer program 3 5 in disk are intended to serve two purposes firstly as illustrations for students and practicing engineers to understand the subject matter and secondly to enable them to optimize casing design for a wide range of wells to be drilled in the future **Compressibility of Sandstones** R.W. Zimmerman,1990-11-19 This book is a comprehensive treatment of the elastic volumetric response of sandstones to variations in stress The theory and data presented apply to the deformations that occur for example due to withdrawal of fluid from a reservoir or due to the redistribution of stresses caused by the drilling of a borehole Although the emphasis is on reservoir type sandstones results and methods discussed are also applicable to other porous rocks Part One concerns the effect of stress on deformation and discusses porous rock compressibility coefficients Elasticity theory is used to derive relationships between the porous rock compressibility coefficients the porosity and the mineral grain compressibility Theoretical bounds on the compressibility coefficients are derived The concept of effective stress coefficients is examined as is the integrated form of the stress strain relationships Undrained compression and induced pore pressures are treated within the same general framework Part One is concluded with a brief elementary introduction to Biot s theory of poroelasticity All the results in Part One are illustrated and verified with extensive references to published compressibility data Part Two deals with the relationship between pore structure and compressibility and presents methods that permit quantitative prediction of the compressibility coefficients Two and three dimensional models of tubular pores spheroidal pores and crack like grain boundary voids are analyzed A critical review is made of various methods that have been proposed to relate the effective elastic moduli bulk and shear of a porous material to its pore structure Methods for extracting pore aspect ratio distributions from stress strain data or from acoustic measurements are presented along with applications to actual sandstone data Part Three is a brief summary of experimental techniques that are used to measure porous rock compressibilities in the laboratory The information contained in this volume is of interest to petroleum engineers specifically those involved with reservoir modeling petroleum geologists

geotechnical engineers hydrologists and geophysicists      **Petroleum Related Rock Mechanics** E. Fjær, Per Horsrud, Arne Marius Raaen, R. Risnes, Rune Martin Holt, 1992-01-03 This long awaited volume written specifically for petroleum workers explores the fundamental concepts of rock mechanics along with various petroleum related applications Emphasis is placed on the weak sedimentary rocks which normally fall between traditional rock mechanics and soil mechanics Elasticity failure mechanics acoustic wave propagation and geological aspects of rock materials are all detailed Application areas discussed include stability during drilling sand production fracturing and reservoir compaction Methods for acquisition of data from field and laboratory analyses are also described Engineers and geologists in the petroleum industry will find this book a powerful resource in providing a basis of rock mechanical knowledge a knowledge which can greatly assist in the understanding of field behaviour design of test programmes and the design of field operations      **Handbook of Natural Gas Transmission and Processing** Saeid Mokhatab, William A. Poe, John Y. Mak, 2015-02-14 Written by an internationally recognized author team of natural gas industry experts the third edition of Handbook of Natural Gas Transmission and Processing is a unique well documented and comprehensive work on the major aspects of natural gas transmission and processing Two new chapters have been added to the new edition a chapter on nitrogen rejection to address today's high nitrogen gases and a chapter on gas processing plant operations to assist plant operators with optimizing their plant operations In addition overall updates to Handbook of Natural Gas Transmission and Processing provide a fresh look at new technologies and opportunities for solving current gas processing problems on plant design and operation and on greenhouse gases emissions It also does an excellent job of highlighting the key considerations that must be taken into account for any natural gas project in development Covers all technical and operational aspects of natural gas transmission and processing in detail Provides pivotal updates on the latest technologies applications and solutions Offers practical advice on design and operation based on engineering principles and operating experiences      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     Thermal Methods of Petroleum Production N.K. Baibakov,A.R. Garushev,W.J. Cieslewicz,2011-08-18 Until now information on Russian enhanced oil recovery EOR research work and field experience has not been available in English This work originally published in Russian describes in a systematic manner recent Russian laboratory and field research as well as industrial experience of applying thermal EOR methods in different Russian oil fields some with high viscosity crudes and others with low viscosity It is written by two leading Russian specialists and contains 116 diagrams curves graphs designs and 36 tables research data The book will be valuable to petroleum companies throughout the world oil field servicing companies petroleum engineering consultants and libraries of technical institutes and universities

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