

reservoir & petroleum engineering

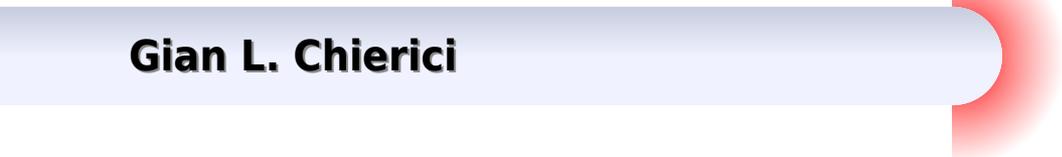


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# Petroleum Reservoir Engineering

**Gian L. Chierici**



## **Petroleum Reservoir Engineering:**

*Petroleum Reservoir Engineering Practice* Nnaemeka Ezekwe, 2010-09-09 The Complete Up to Date Practical Guide to Modern Petroleum Reservoir Engineering This is a complete up to date guide to the practice of petroleum reservoir engineering written by one of the world's most experienced professionals Dr Nnaemeka Ezekwe covers topics ranging from basic to advanced focuses on currently acceptable practices and modern techniques and illuminates key concepts with realistic case histories drawn from decades of working on petroleum reservoirs worldwide Dr Ezekwe begins by discussing the sources and applications of basic rock and fluid properties data Next he shows how to predict PVT properties of reservoir fluids from correlations and equations of state and presents core concepts and techniques of reservoir engineering Using case histories he illustrates practical diagnostic analysis of reservoir performance covers essentials of transient well test analysis and presents leading secondary and enhanced oil recovery methods Readers will find practical coverage of experience based procedures for geologic modeling reservoir characterization and reservoir simulation Dr Ezekwe concludes by presenting a set of simple practical principles for more effective management of petroleum reservoirs With *Petroleum Reservoir Engineering Practice* readers will learn to Use the general material balance equation for basic reservoir analysis Perform volumetric and graphical calculations of gas or oil reserves Analyze pressure transients tests of normal wells hydraulically fractured wells and naturally fractured reservoirs Apply waterflooding gasflooding and other secondary recovery methods Screen reservoirs for EOR processes and implement pilot and field wide EOR projects Use practical procedures to build and characterize geologic models and conduct reservoir simulation Develop reservoir management strategies based on practical principles Throughout Dr Ezekwe combines thorough coverage of analytical calculations and reservoir modeling as powerful tools that can be applied together on most reservoir analyses Each topic is presented concisely and is supported with copious examples and references The result is an ideal handbook for practicing engineers scientists and managers and a complete textbook for petroleum engineering students *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 **Petroleum Reservoir Engineering** James W. Amyx, Robert L. Whiting, 1960 *Petroleum Reservoir Engineering* James Cameron, 2019-06-07 Petroleum engineering is a field of engineering that is concerned with the production of crude oil or natural gas The areas of formation evaluation reservoir simulation reservoir engineering drilling etc are crucial to petroleum

engineering Reservoir engineering is a branch of petroleum engineering It strives to solve the drainage problems that arise during the production of oil and gas reservoirs in order to achieve a high economic recovery Numerical reservoir modeling well testing drilling PVT analysis of fluids etc are central to reservoir engineering The specializations in reservoir engineering are surveillance engineering and simulation modeling This book presents the complex subject of petroleum reservoir engineering in the most comprehensible and easy to understand language It is a valuable compilation of topics ranging from the basic to the most complex theories and principles in this field It is a complete source of knowledge on the present status of this important field

**Oil Reservoir Engineering** Sylvain Joseph Pirson,1958 Introduction to Petroleum Reservoir Analysis Leonard Koederitz,A. Herbert Harvey,Mehdi Honarpour,1989 **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

Principles of Petroleum Reservoir Engineering Gian L. Chierici,2012-12-06 Volume 1 of this book dealt with the techniques behind the acquisition processing and interpretation of basic reservoir data This second volume is devoted to the study verification and prediction of reservoir behaviour and methods of increasing productivity and oil recovery I should like to bring a few points to the reader's attention Firstly the treatment of immiscible displacement by the method of characteristics The advantage of this approach is that it brings into evidence the various physical aspects of the process especially its dependence on the properties of the fluids concerned and on the velocity of displacement It was not until after the publication of the first Italian edition of this book February 1990 that I discovered a similar treatment in the book

Enhanced Oil Recovery by Larry W Lake published in 1989 Another topic that I should like to bring to the reader s attention is the forecasting of reservoir behaviour by the method of identified models This original contribution to reservoir engineering is based on systems theory a science which should in my opinion find far wider applica tion in view of the black box nature of reservoirs and their responses to production processes

**Introduction to Petroleum Reservoir Engineering** Anatoly B. Zolotukhin, Jann-Rune Ursin, 2000

*Petroleum Reservoir Engineering* James W. Amyx, 1960

*Principles of Petroleum Reservoir Engineering* Gian L. Chierici, 2013-03-09 Six years ago at the end of my professional career in the oil industry I left my management position within Agip S p A a major multinational oil company whose headquarters are in Italy to take up the chair in reservoir engineering at the University of Bologna Italy There I decided to prepare what was initially intended to be a set of lecture notes for the students attending the course However while preparing these notes I became so absorbed in the subject matter that I soon found myself creating a substantial volume of text which could not only serve as a university course material but also as a reference for wider professional applications Thanks to the interest shown by the then president of Agip Ing Giuseppe Muscarella this did indeed culminate in the publication of the first Italian edition of this book in 1989 The translation into English and publication of these volumes owes much to the encouragement of the current president of Agip Ing Guglielmo Moscato My grateful thanks are due to both gentlemen And now the English version translated from the second Italian edition and containing a number of revisions and much additional material As well as providing a solid theoretical basis for the various topics this work draws extensively on my 36 years of worldwide experience in the development and exploitation of oil and gas fields

Applied Petroleum Reservoir Engineering J. Brandon Rogers, 2014

**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

**Petroleum Reservoir Simulation** J.H. Abou-Kassem, M. Rafiqul Islam, S.M. Farouq-Ali, 2020-01-14

*Petroleum Reservoir Simulation* Second Edition introduces this novel engineering approach for petroleum reservoir modeling and operations simulations Updated with new exercises a new glossary and a new chapter on how to create the data to run a simulation this comprehensive reference presents step by step numerical procedures in an easy to understand format Packed

with practical examples and guidelines this updated edition continues to deliver an essential tool for all petroleum and reservoir engineers Includes new exercises a glossary and references Bridges research and practice with guidelines on introducing basic reservoir simulation parameters such as history matching and decision tree content Helps readers apply knowledge with assistance on how to prepare data files to run a reservoir simulator

**Petroleum Reservoir Engineering Practice** Nnaemeka Ezekwe,2011 *Petroleum Reservoir Engineering Practice* Nnaemeka Ezekwe,2010

**Petroleum Reservoir Rock and Fluid Properties** Abhijit Y. Dandekar,2013-02-21 Accessible to anyone with an engineering background this text reveals the importance of understanding rock and fluid properties in petroleum engineering Along with new practice problems and detailed solved examples this edition covers Stone II three phase relative permeability model unconventional oil and gas resources low salinity water injection saturated reservoirs and production trends of five reservoir fluids impact of mud filtrate invasion and heavy organics on samples and flow assurance problems due to solid components of petroleum It also offers better plots for determining oil and water Corey exponents from relative permeability data

**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

Petroleum reservoir engineering James William Amyx,Daniel Materson Bass,Robert L. Whiting,1960

Advanced Reservoir Engineering Tarek Ahmed,Paul McKinney,2011-03-15 Advanced Reservoir Engineering offers the practicing engineer and engineering student a full description with worked examples of all of the kinds of reservoir engineering topics that the engineer will use in day to day activities In an industry where there is often a lack of information this timely volume gives a comprehensive account of the physics of reservoir engineering a thorough knowledge of which is essential in the petroleum industry for the efficient recovery of hydrocarbons Chapter one deals exclusively with the theory and practice of transient flow analysis and offers a brief but thorough hands on guide to gas and oil well testing Chapter two documents water influx models and their practical applications in conducting comprehensive field studies widely used throughout the industry Later chapters include unconventional gas reservoirs and the classical adaptations of the material balance equation An essential tool for the petroleum and reservoir engineer offering information not available anywhere else Introduces the reader to cutting edge new developments in Type Curve Analysis unconventional gas reservoirs and gas hydrates Written by two of the industry s best known and respected reservoir engineers

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