

DEVELOPMENTS IN PETROLEUM SCIENCE 12

# fundamentals of fractured reservoir engineering

BY  
T.D. VAN GOLF-RACHT

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# Fundamentals Of Fractured Reservoir Engineering

**Louis H. Reiss**



## **Fundamentals Of Fractured Reservoir Engineering:**

**Fundamentals of Fractured Reservoir Engineering** T.D. van Golf-Racht, 1982-04-01 In the modern language of reservoir engineering by reservoir description is understood the totality of basic local information concerning the reservoir rock and fluids which by various procedures are extrapolated over the entire reservoir Fracture detection evaluation and processing is another essential step in the process of fractured reservoir description In chapter 2 all parameters related to fracture density and fracture intensity together with various procedures of data processing are discussed in detail After a number of field examples developed in Chap 3 the main objective remains the quantitative evaluation of physical properties This is done in Chap 4 where the evaluation of fractures porosity and permeability their correlation and the equivalent ideal geometrical models versus those parameters are discussed in great detail Special rock properties such as capillary pressure and relative permeability are reexamined in the light of a double porosity reservoir rock In order to complete the results obtained by direct measurements on rock samples Chap 5 examines fracturing through indirect measurements from various logging results The entire material contained in these five chapters defines the basic physical parameters and indicates procedures for their evaluation which may be used further in the description of fractured reservoirs Fundamentals of Fractured Reservoir Engineering Theodor D. Golf-Racht, 1982 The Reservoir Engineering Aspects of Fractured Formations Louis H. Reiss, 1980 Contents 1 Introduction 2 Production geology of fractured reservoirs 3 Use of production data in fractured reservoirs 4 Recovery mechanisms in fractured reservoirs 5 Simulation of fractured reservoirs 6 Application to the development and exploitation of fractured reservoirs Appendices Well logging in fractured reservoirs Well performance and well tests in fractured reservoirs Relationship between the fracture parameters Compressibility of fractured reservoirs Multiphase flow in fractured reservoirs Mathematical simulation of fractured reservoirs Bibliography Index

*Well Test Analysis for Fractured Reservoir Evaluation* G. Da Prat, 1990-11-19 The main purpose of this book is to provide the reader with a basic understanding of the behaviour of fractured reservoirs using evaluation techniques based on processing pressure and flow rate data resulting from production testing It covers the fundamental reservoir engineering principles involved in the analysis of fluid flow through fractured reservoirs the application of existing models to field cases and the evaluation and description of reservoirs based on processed data from pressure and production tests The author also discusses production decline analysis the understanding of which is a key factor influencing completion or abandonment of a well or even a field The theoretical concepts are presented as clearly and simply as possible in order to aid comprehension The book is thus suitable for training and educational purposes and will help the reader who is unfamiliar with the subject acquire the necessary skills for successful interpretation and analysis of field data One of the most important features of the book is that it fills the gap between field operations and research in regard to proper management of reservoirs The book also contains a computer program FORTRAN language which can be incorporated in existing software designed for reservoir

evaluation type curves generation test design and interpretation can be achieved by using this program Petroleum engineers reservoir engineers petroleum geologists research engineers and students in these fields will be interested in this book as a reference source It can also be used as a text book for training production and reservoir engineering professionals It should be available in university and oil company libraries

**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

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      **Reservoir Engineering of Fractured Reservoirs** Ali M. Saidi, 1987      Fundamentals of Reservoir Rock Properties Tarek Al-Arbi Omar Ganat, 2019-09-05 This book explains the basic technologies concepts approaches and terms used in relation to reservoir rocks Accessible to engineers in varying roles it provides the tools necessary for building reservoir characterization and simulation models that improve resource definition and recovery even in complex depositional environments The book is enriched with numerous examples from a wide variety of applications to help readers understand the topics It also describes in detail the key relationships between the different rock properties and their variables As such it is of interest to researchers engineers lab technicians and postgraduate students in the field of petroleum engineering      **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

**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

**Microbial Enhancement of Oil Recovery - Recent Advances** E.C. Donaldson,1991-04-03 This conference was instituted to examine field activities in Microbial Enhancement of Oil Recovery The U S Department of Energy has sponsored several field projects and the details from some of these were presented as well as a few from industry The balance of the program was concerned with new developments in research Today s oil production technology leaves one third to one half of the original oil in place in the reservoir at abandonment of secondary recovery waterflooding This leaves a very large target for microbial enhanced oil recovery which was shown by the research papers of this conference to be capable of producing up to 50% of the residual oil The field trials show that the normal projected oil production decline curve can be reversed or leveled off by microbial enhancement of oil recovery This conference has shown that a variety of applications are possible to correct oilfield problems as well as to enhance oil recovery Among these is the suppression of hydrogen sulfide production which alone is a tremendous advance because of the large quantity of sour oil production If hydrogen sulfide production can be curtailed it would increase the value of the produced oil decrease its toxicity and largely decrease its corrosiveness All of these would be welcome both in the field and at the petroleum refinery where special precautions must be taken to process sour crude oil Another very important discovery is the ability of certain bacteria to eliminate paraffin deposition around the producing well and in the tubulars This is a welcome improvement for many producers who have considerable difficulty in controlling paraffin deposition

**Origin and Prediction of Abnormal Formation Pressures** V.A. Serebryakov,J.O. Robertson Jr.,G.V. Chilingarian,2002-05-24 Knowledge of the presence of abnormally high pressure zones AHFP prior to drilling into them can prevent considerable economic losses and possibly save human lives The various origins undercompaction tectonics etc of AHFPs are discussed followed by the description of predictive techniques in clastic carbonate and salt bearing formations In addition to the well logging predictive techniques the authors discuss smectite illite transformation and the chemistry of interstitial solutions Other topics covered include abnormally low formation pressures and subsidence and b mathematical modelling Loss of potential production may result if AHFPs are not properly identified and evaluated Many hydrocarbon bearing formations with AHFPs are erroneously

condemned This book is of interest to engineers and geologists involved in the a evaluation b drilling in c completing and d producing from hydrocarbon reservoirs with AHFPs *SPE Reservoir Engineering*, 1997 **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

**Microbial Enhancement of Oil Recovery - Recent Advances** E.T. Premuzic, A. Woodhead, 1993-07-23 This volume is concerned with many aspects of petroleum microbiology and biochemistry all with strong commercial applications Worldwide research on the major topic MEOR Microbially Enhanced Oil Recovery is comprehensively covered under experimental work field applications and modeling The challenge of formulating a complete in situ MEOR system microorganisms nutrient package and other amendments is explored together with the future needs in the design and execution of this new biotechnology *Subsidence due to Fluid Withdrawal* E.C. Donaldson, G.V. Chilingarian, T.F. Yen, 1995-03-29 Subsidence of geologic surface structures due to withdrawal of fluids from aquifers and petroleum reservoirs is a phenomenon experienced throughout the world as the demand for water and hydrocarbons increases with increasing population growth This book addresses the definition and theories of subsidence and the influences of unique conditions on subsidence it includes discussions of specific field cases and a basic mathematical model of reservoir compaction and accompanying loss of porosity and permeability The book is designed as a reference for readers giving immediate access to the geological events that establish conditions for compaction the mathematical theories of compaction and subsidence and practical considerations of field case histories in various regions of the world *Renewable and Sustainable Energy* Wei Guo Pan, Jian Xing Ren, Yong

Guang Li,2011-10-07 Selected peer reviewed papers from the 2011 International Conference on Energy Environment and Sustainable Development ICEESD 2011 October 21 23 2011 Shanghai China Transactions of the Society of Petroleum Engineers ,1995 **Modern Reservoir Flow and Well Transient Analysis** Wilson C. Chin,1993

## **Fundamentals Of Fractured Reservoir Engineering** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Fundamentals Of Fractured Reservoir Engineering**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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