

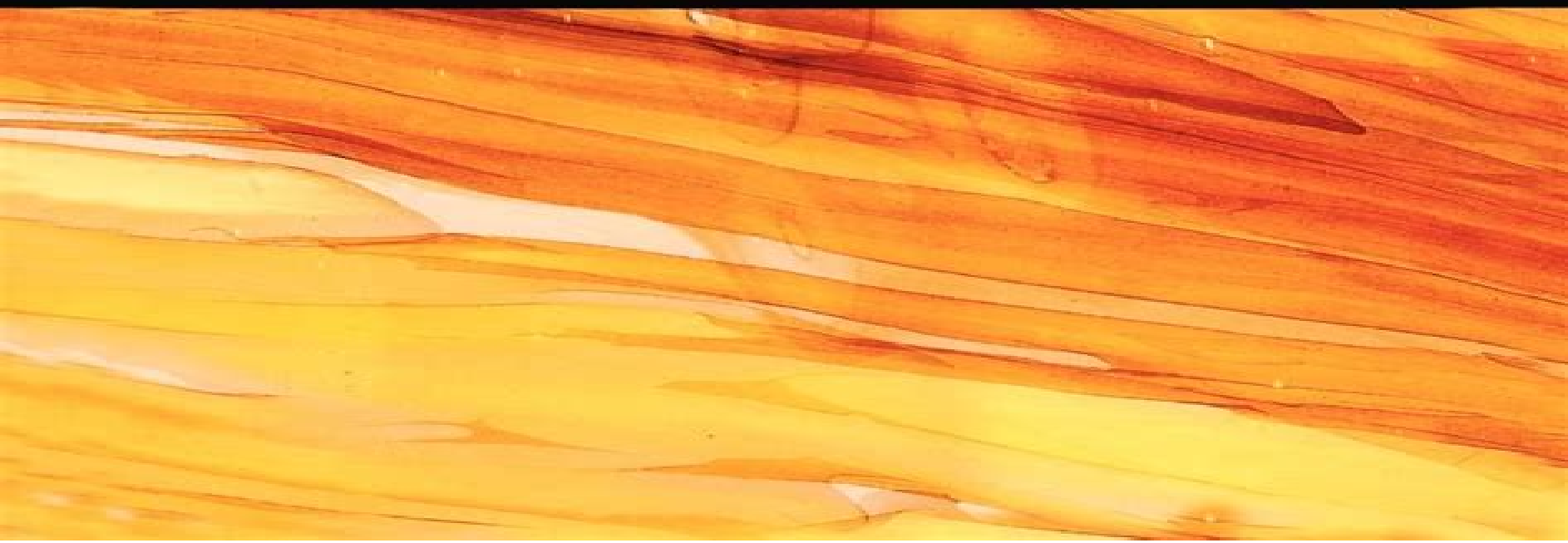


DEVELOPMENTS IN  
PETROLEUM SCIENCE

8

# FUNDAMENTALS OF RESERVOIR ENGINEERING

L.P. DAKE



# Fundamentals Of Reservoir Engineering Volume 8 Developments In Petroleum Science

**L.P. Dake**



## **Fundamentals Of Reservoir Engineering Volume 8 Developments In Petroleum Science:**

*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

## **Mathematical Modeling in Science and Engineering**

Ismael Herrera, George F. Pinder, 2012-03-19 A powerful unified approach to mathematical and computational modeling in science and engineering Mathematical and computational modeling makes it possible to predict the behavior of a broad range of systems across a broad range of disciplines This text guides students and professionals through the axiomatic approach a powerful method that will enable them to easily master the principle types of mathematical and computational models used in engineering and science Readers will discover that this axiomatic approach not only enables them to systematically construct effective models it also enables them to apply these models to any macroscopic physical system Mathematical Modeling in Science and Engineering focuses on models in which the processes to be modeled are expressed as systems of partial differential equations It begins with an introductory discussion of the axiomatic formulation of basic models setting the foundation for further topics such as Mechanics of classical and non classical continuous systems Solute transport by a free fluid Flow of a fluid in a porous medium Multiphase systems Enhanced oil recovery Fluid mechanics Throughout the text diagrams are provided to help readers visualize and better understand complex mathematical concepts A set of exercises at the end of each chapter enables readers to put their new modeling skills into practice There is also a bibliography in each chapter to facilitate further investigation of individual topics Mathematical Modeling in Science and Engineering is ideal for both students and professionals across the many disciplines of science and engineering that depend on mathematical and computational modeling to predict and understand complex systems

## **The Journal of Canadian**

**Petroleum Technology**, 2008 Hydrocarbon Migration Systems Analysis J.M. Verweij, 1993-01-27 The main intention of this book is to provide geoscientists interested or working in hydrocarbon exploration with a comprehensive understanding of the evolution of hydrocarbon migration systems in sedimentary basins and to give guidelines for its application in basin evaluation For this purpose the book fully integrates hydrogeologic and hydrodynamic aspects of the evolution of sedimentary basins with petroleum geologic aspects It will be of interest to petroleum geologists hydrogeologists geochemists and reservoir geologists

## **Optimization of Multistage Hydraulic Fracturing Treatment for**

**Maximization of the Tight Gas Productivity** Mengting Li, 2018-12-17 Hydraulic fracturing is essential technology for the

development of unconventional resources such as tight gas. So far there are no numerical tools which can optimize the whole process from geological modeling hydraulic fracturing until production simulation with the same 3D model with consideration of the thermo hydro mechanical coupling. In this dissertation a workflow and a numerical tool chain were developed for design and optimization of multistage hydraulic fracturing in horizontal well regarding a maximum productivity of the tight gas wellbore. After the verification a full 3D reservoir model is generated based on a real tight gas field in the North German Basin. Through analysis of simulation results a new calculation formula of FCD was proposed which takes the proppant position and concentration into account and can predict the gas production rate more accurately. However not only FCD but also proppant distribution and hydraulic connection of stimulated fractures to the well geological structure and the interaction between fractures are determinant for the gas production volume. Through analysis the numerical results of sensitivity analysis and optimization variations there is no unique criterion to determine the optimal number and spacing of the fractures it should be analyzed firstly in detail to the actual situation and decided then from case to case.

*Zeitschrift für Angewandte Mathematik und Mechanik. Volume 64, Number 12* H. Heinrich, G. Schmid, 2022-03-21 Keine ausführliche Beschreibung für ZEITSCH MATH MECH VOL 64 12 ZAMM E BOOK verfügbar Mesozoic Resource Potential in the Southern Permian Basin B. Kilhams, P.A. Kukla, S. Mazur, T. McKie, H.F. Mijnlief, K. van Ojik, 2018-08-31 The Southern Permian Basin as its name suggests is a historical heartland for hydrocarbon production from the Palaeozoic Rotliegend interval. However in this mature basin the Mesozoic presents further possibilities to offer resource security to NW Europe. Such opportunities include increasing efficiency in the production of discovered hydrocarbons exploration for further hydrocarbons both conventional and unconventional and efficient exploration for and production of geothermal energy. All these potential resources require a grounding in technically sound geoscience via traditional scientific observation and the application of new technologies to unlock their value. The main aim of this volume is to bring together the work of academics and industry workers to consider cross border geoscience including contributions on Poland Germany The Netherlands the United Kingdom and adjacent areas. The work presented intends to contribute to the development and discovery of further Mesozoic energy resources across the basin. *Proceedings*, 1996 **Petroleum Engineering: Principles, Calculations, and Workflows** Moshood Sanni, 2018-09-21 Ein ausführlicher Praxisleitfaden zu Methoden für die Lösung komplexer Probleme in der Erdöltechnik. In der Erdöltechnik dominieren berggreifende wissenschaftliche und mathematische Prinzipien. Allerdings gibt es immer wieder Lücken zwischen Theorie und praktischer Anwendung. Petroleum Engineering Principles Calculations and Workflows stellt Methoden für die Lösung einer Vielzahl praktischer Probleme in der Erdöltechnik vor. Jedes Kapitel beschäftigt sich mit einer spezifischen Problemstellung beschreibt Formeln zur Erläuterung der primären Prinzipien dieses Problems und zeigt im Anschluss einfach nachvollziehbare Handreichungen für die praktische Anwendung. Hauptmerkmale dieses Bandes: Fundierter und integrierter Ansatz für die Lösung inverser Probleme. Ausführliche

Untersuchung der Abläufe einschließlich Modell und Parametervalidierung Einfache Ansätze für die Lösung komplexer mathematischer Probleme Komplexe Berechnungen die sich mit einfachen Methoden leicht implementieren lassen Überblick über wichtige Herangehensweisen die für die Software und Anwendungsentwicklung notwendig sind Formel und Modellhandreichungen für die Diagnose erstmalige Parametermodellierung Simulation und Regression Petroleum Engineering Principles Calculations and Workflows ist ein wertvolles Referenzwerk für die Praxis und richtet sich an eine breite Zielgruppe Geowissenschaftler Explorationsgeologen und Ingenieure Dieser zugängliche Leitfaden ein fundiertes Nachschlagewerk für die Lösung alltäglicher Probleme in der Erdtechnik eignet sich ebenfalls gut für Studenten im Hauptstudium Postgraduierte Berater Softwareentwickler und Berufspraktiker

**Operational Aspects of Oil and Gas Well Testing** S. McAleese, 2000-03-10 Well Testing is recognised by many operating oil and gas companies to be the most hazardous operation they routinely undertake Therefore it is of great importance that such operations are extremely well planned and executed This handbook covers all the major Operational Aspects of Oil and Gas Well Testing and uses a structured approach to guide the reader through the steps required to safely and effectively plan a well test operation under just about any circumstances world wide Safety procedures and well testing recommended practices are rigorously addressed in this book as are the responsibilities of those persons involved in well testing operations Perforating equipment drill stem test equipment and bottom hole pressure gauges are discussed in detail in the book There is also a very valuable section on sub sea equipment an area often not well understood even by experienced engineers who may have been primarily involved with land or jackup rigs A major part of the book is the detailed coverage of the equipment and instrumentation that makes up a surface well testing package It also covers operational and testing related problems such as hydrates wax and sand and offers the reader some possible solutions There are useful chapters on sampling onsite chemistry coil tubing and nitrogen operations and basic stimulation as they relate to well testing Finally there is an extensive section of appendices covering useful engineering calculations and there is a complete example of a detailed well testing programme

**PVT and Phase Behaviour Of Petroleum Reservoir Fluids** Ali Danesh, 1998-05-07 This book on PVT and Phase Behaviour Of Petroleum Reservoir Fluids is volume 47 in the Developments in Petroleum Science series The chapters in the book are Phase Behaviour Fundamentals PVT Tests and Correlations Phase Equilibria Equations of State Phase Behaviour Calculations Fluid Characterisation Gas Injection Interfacial Tension and Application in Reservoir Simulation

**Fundamental And Applied Pressure Analysis** Tayyar Sezgin Daltaban, C G Wall, 1998-08-08 The analysis of well tests constitutes one of the most powerful tools for the effective description of a petroleum reservoir and its subsequent management This requires that the well test be placed in the proper context of related disciplines especially geoscience production and reservoir engineering Modern methods of automated data processing can conceal mathematical limitations and overlook the need for realistic physical and geologic models This book emphasizes the plausible physical contexts and mathematical models and limitations

and also the importance of realistic geologic models in analysis Although the book is clearly targeted at petroleum engineers the approach taken by the authors will no doubt find favour with practitioners in other areas of fluid flow in porous media such as hydrology and the flow of pollutants Scattered throughout the book are worked examples of the use of the methods described in the text It also contains extensive appendices on permeability application of Laplace transforms to flow equations valid for single and multi layered systems convolution and deconvolution dimensionless parameters and P theorems and physical and thermodynamic properties of gases This book should appeal to students as well as practitioners in industry many in the latter group may have benefited before from formal exposure to the underlying theory and its limitations in real reservoir environments      *Applied Geothermics for Petroleum Engineers* I.M. Kutasov, 1999-05-24 The purpose of *Applied Geothermics for Petroleum Engineers* is to present in a clear and concise form methods of utilizing the data of temperature surveys in deep boreholes as well as the results of field laboratory and analytical investigations in geothermics to a wide audience Although some aspects of the subject of this book have been discussed in several previous books and numerous papers *Applied Geothermics for Petroleum Engineers* is the first book on this topic available to the petroleum engineering community The objective of the book is to present the state of knowledge and prediction of downhole and formations temperatures during well drilling well completion shut in and production *Applied Geothermics for Petroleum Engineers* is intended for drilling engineers impact of elevated temperatures on well drilling and completion technology Arctic drilling production engineers temperature regime of production injection and geothermal wells Arctic production reservoir engineers temperature field of reservoirs thermal properties of formations and formation fluids well logging engineers interpretation of electrical resistance mud density and temperature logs and geophysicists and geologists interpretation of geophysical data calculation of the terrestrial heat flow reconstruction of past climates      *Hydrocarbon Reservoir and Well Performance* J.H. Nind, 1989-06-30 The cost effective recovery of oil and gas depends on an understanding of both reservoir and petroleum engineering yet these are increasingly becoming self contained fields *Hydrocarbon Reservoir and Well Performance* brings the two subjects together for the first time and by explaining both fundamental concepts and actual practice helps in understanding their interrelation      **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

### **Hydrocarbon Exploration and Production**

Frank Jahn, Mark Cook, Mark Graham, 2008-03-13 Hydrocarbon Exploration and Production Second Edition is a comprehensive and current introduction to the upstream industry drawing together the many inter disciplinary links within the industry It presents all the major stages in the life of an oil or gas field from gaining access to opportunity through exploration appraisal development planning production and finally to decommissioning It also explains the fiscal and commercial environment in which oil and gas field development takes place The book is written for industry professionals who wish to be better informed about the basic technical and commercial methods concepts and techniques used in the upstream oil and gas business The authors are the founders of TRACS International a company which has provided training and consultancy in Exploration and Production related issues for many clients world wide since 1992 Clearly written in a concise and straightforward manner Features detailed technical illustrations to maximize learning Presents major advances in the industry including technical methods for field evaluation and development and techniques used for managing risk within the business Developed from TRACS International course materials discussions with clients and material available in the public domain

*Application of Big Data in Petroleum Streams* Jay Gohil, Manan Shah, 2022-05-09 The book aims to provide comprehensive knowledge and information pertaining to application or implementation of big data in the petroleum industry and its operations such as exploration production refining and finance The book covers intricate aspects of big data such as 6Vs benefits applications implementation research work and real world implementation pertaining to each petroleum associated operation in a concise manner that aids the reader to apprehend the overview of big data s role in the industry The book resonates with readers who wish to understand the intricate details of working with big data along with data science machine learning and artificial intelligence in general and how it affects and impacts an entire industry As the book builds various concepts of big data from scratch to industry level readers who wish to gain big data associated knowledge of industry level in simple language from the very fundamentals would find this a wonderful read

### **Upscaling of Single- and Two-Phase Flow in Reservoir**

**Engineering** Hans Bruining, 2021-11-14 This book describes fundamental upscaling aspects of single phase two phase porous media flow for application in petroleum and environmental engineering Many standard texts have been written about this subject What distinguishes this work from other available books is that it covers fundamental issues that are frequently ignored but are relevant for developing new directions to extend the traditional approach but with an eye on application Our dependence on fossil energy is 80 90% and is only slowly decreasing Of the estimated 37 40 Gton year anthropogenic

emissions of about 13 Gton year of carbon dioxide remain in the atmosphere An Exergy Return on Exergy Invested analysis shows how to obtain an unbiased quantification of the exergy budget and the carbon footprint Thus the intended audience of the book learns to quantify his method of optimization of recovery efficiencies supported by spreadsheet calculations As to single phase one component fluid transport it is shown how to deal with inertia anisotropy heterogeneity and slip Upscaling requires numerical methods The main application of transient flow is to find the reasons for reservoir impairment The analysis benefits from solving the porous media flow equations using numerical Laplace transforms The multiphase flow requires the definition of capillary pressure and relative permeabilities When capillary forces dominate we have dispersed Buckley Leverett flow When gravity forces dominate we obtain segregated flow interface models Miscible flow is described by a convection dispersion equation We give a simple proof that the dispersion coefficient can be approximated by Gelhar's relation i.e. the product of the interstitial velocity the variance of the logarithm of the permeability field and a correlation length The book will appeal mostly to students and researchers of porous media flow in connection with environmental engineering and petroleum engineering     Developments in Petroleum Science ,1978     *Polymer-Improved Oil Recovery* K.S. Sorbie,2013-11-21 The importance of oil in the world economy cannot be overstated and methods for recovering oil will be the subject of much scientific and engineering research for many years to come Even after the application of primary depletion and secondary recovery processes usually waterflooding much oil usually remains in a reservoir and indeed in some heterogeneous reservoir systems as much as 70% of the original oil may remain Thus there is an enormous incentive for the development of improved or enhanced methods of oil recovery aimed at recovering some portion of this remaining oil The techniques used range from improved secondary flooding methods including polymer and certain gas injection processes through to enhanced or tertiary methods such as chemical surfactant caustic foam gas miscible carbon dioxide gas reinjection and thermal steam soak and drive in situ combustion The distinction between the classification of the methods usually refers to the target oil that the process seeks to recover That is in improved recovery we are usually aiming to increase the oil sweep efficiency whereas in tertiary recovery we aim to mobilise and recover residual or capillary trapped oil There are a few books and collections of articles which give general overviews of improved and enhanced oil recovery methods However for each recovery method there is such a wide range of interconnected issues concerning the chemistry physics and fluid mechanics of flow in porous media that rarely are these adequately reviewed

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