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Fundamentals of Reservoir Engineering by Dake is the "bible" of reservoir engineering. Many college courses utilize

and require this textbook. Amazon also offers this text at a great price, much cheaper than through purchasing from ElSevier. The book starts off with material balance.

"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.

In the modem

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.

This revised edition of the bestselling Practice of Reservoir Engineering has been written for those in the oil industry

requiring a working knowledge of how the complex subject of hydrocarbon reservoir engineering can be applied in the field in a practical manner. Containing additions and

corrections to the first edition, the book is a simple statement of how to do the job and is particularly suitable for res ervoir/productio n engineers as well as those associated with hydrocarbon

recovery. This practical book approaches the basic limitations of reservoir engineering with the basic tenet of science: Occam's Razor, which applies to reservoir engineering to a greater extent

than for most physical sciences – if there are two ways to account for a physical phenomenon, it is the simpler that is the more useful. Therefore, simplicity is the theme of this volume.

Reservoir and production engineers, geoscientists, petrophysicists, and those involved in the management of oil and gas fields will want this edition.

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 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.

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 underlaying 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 Enhanced Oil Recovery Methods for Unconventional Oil Reservoirs,

Volume 67 provides important guidance on which EOR methods work in shale and tight oil reservoirs. This book helps readers learn the main fluid and rock properties of shale and tight

reservoirs—which are the main target for EOR techniques—and understand the physical and chemical mechanisms for the injected EOR fluids to enhance oil recovery in shale and tight oil reservoirs.

The book explains the effects of complex hydraulic fractures and natural fractures on the performance of each EOR technique. The book describes the parameters affecting

obtained oil recovery by injecting different EOR methods in both the microscopic and macroscopic levels of ULR. This book also provides proxy models to associate the functionality of the improved oil

recovery by injecting different EOR methods with different operating parameters, rock, and fluid properties. The book provides profesasionals working in the petroleum industry the

know-how to conduct a successful project for different EOR methods in shale plays, while it also helps academics and students in understanding the basics and principles that make the

performance of EOR methods so different in conventional reservoirs and unconventional formations. Provides a general workflow for how to conduct a successful project for different EOR

methods in these shale plays Provides general guidelines for how to select the best EOR method according to the reservoir characteristics and wells stimulation criteria Explains the basics and

principles that make the performance of EOR methods so different in conventional reservoirs versus unconventional formations

The job of any reservoir engineer is to

maximize production from a field to obtain the best economic return. To do this, the engineer must study the behavior and characteristics of a petroleum reservoir to determine the course of future

development and production that will maximize the profit. Fluid flow, rock properties, water and gas coning, and relative permeability are only a few of the concepts that a reservoir engineer must

understand to do the job right, and some of the tools of the trade are water influx calculations, lab tests of reservoir fluids, and oil and gas performance calculations.Two new chapters

have been added to the first edition to make this book a complete resource for students and professionals in the petroleum industry: Principles of Waterflooding, Vapor-Liquid Phase

Equilibria.

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.