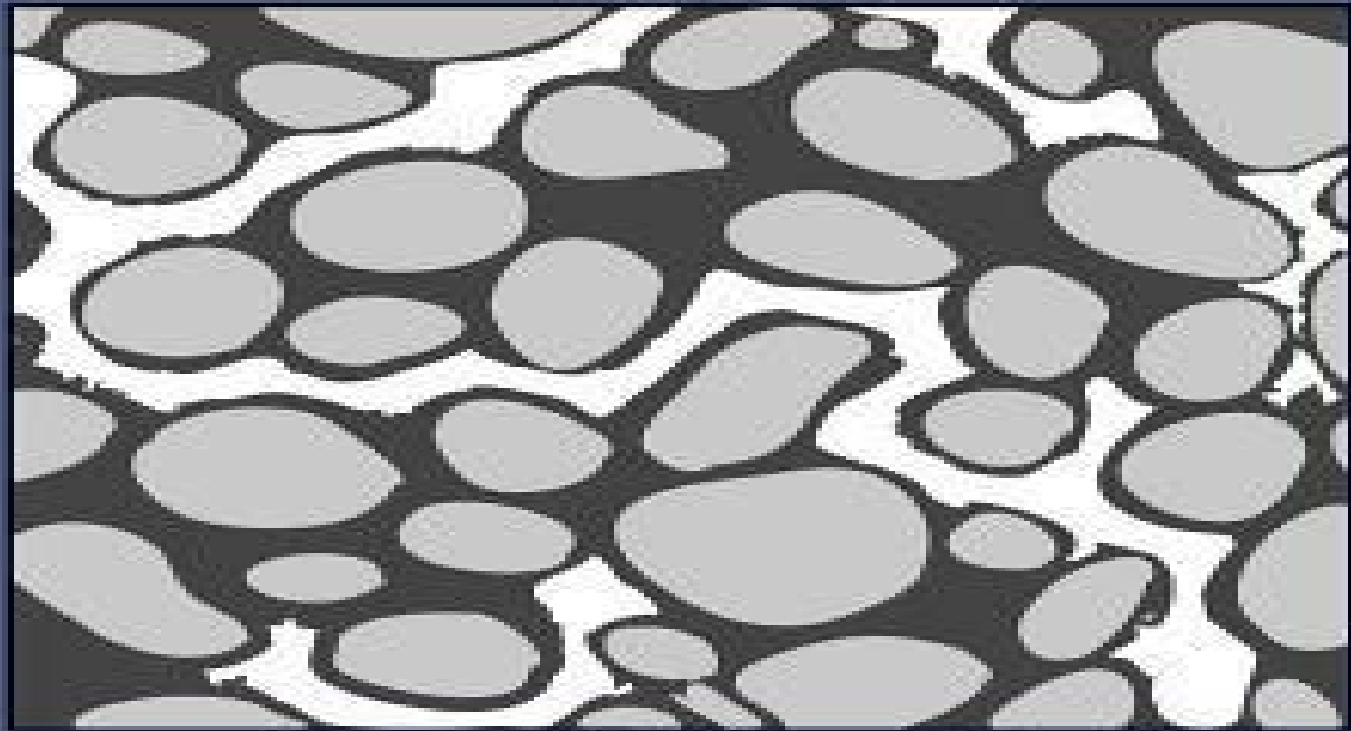


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THE RESERVOIR ENGINEERING ASPECTS OF WATERFLOODING

FORREST F. CRAIG, JR.

MONOGRAPH VOLUME 9

HENRY L. DOHERTY SERIES

Reservoir Engineering Aspects Of Water Flooding

Forrest F. Craig



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The Reservoir Engineering Aspects of Waterflooding Hal R. Warner, 2015 **The reservoir engineering aspects of waterflooding** Forrest F. Craig, 1980 **The Reservoir Engineering Aspects of Waterflooding, Second Edition** H. R. (Hal) Warner Jr., 2015 The first edition of *The Reservoir Engineering Aspects of Waterflooding* was published in 1970 and written by Forrest F. Craig Jr. At the time of publication much of the theory of oil displacement by water had been developed and many laboratory studies completed however the ability to perform computer modeling of 3D fluid flow in reservoirs with complex geologic depositions was in its infancy. In addition several of the earliest large scale field applications of pattern waterflooding had begun but long term performance results were not yet known and various infill drilling programs had y

The Reservoir Engineering Aspects of Waterflooding Forrest F. Craig, 1971 **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 **Waterflooding Sandstone Reservoirs: Methods, Design and Analysis** Jiahong Wang, 2021-03-27 This book focuses on oilfield performance analysis and development adjustment by integrating geology, applied mathematics and other relevant theories. Based on the abundant and detailed field test and production data from Daqing and Tarim two major oilfields in China, the regularities, characteristics, design and adjustment of waterflooding development of sandstone reservoirs throughout the life cycle are described. Field development theories and practices are organically combined in this book which embracing comprehensive systematic and pragmatic contents is conducive to development technicians to quickly grasp the characteristics of waterflooding and prepare adjustment plans. It is also useful as a textbook in petroleum colleges and short training courses **The Design Engineering Aspects of Waterflooding** Stephen C. Rose, John F. Buckwalter, 1989 *The Design Engineering Aspects of Waterflooding* provides a practical guide to the design of surface facilities and wells for a waterflood **Polymer Flooding** W. Littmann, 1988-09-01 This book covers all aspects of polymer flooding, an enhanced oil recovery method using water soluble polymers to increase the viscosity of flood water for the displacement of crude oil from porous reservoir rocks. Although this method is becoming increasingly important, there is very little literature available for the engineer wishing to embark on such a project. In the past polymer flooding was mainly the subject of research. The results of this research are spread over a vast number of single publications making it difficult for someone who has not kept up to date with developments during the last 10 to 15 years to judge the suitability of polymer flooding to a particular field case. This book tries to fill that gap. The basic mechanisms of the process are described and criteria given where it may be employed. Basic elements of the chemistry of EOR polymers are provided. The fundamentals of polymer physics such as rheology, flow in porous media and adsorption are derived. Practical

hints on mixing and testing of polymers in the laboratory are given as well as instructions for their application in the oil field. Polymer flooding is illustrated by some case histories and the economics of the methods are examined. For the essential subjects, example calculations are added. An indispensable book for reservoir engineers, production engineers, and laboratory technicians within the petroleum industry.

Essentials of Reservoir ... Pierre Donnez, 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 as a textbook for students majoring in the area related with petroleum exploitation.

Evaluation of Waterfloodability of Oilfields by Pilot Flooding James A. Wasson, 1974. Ground Control Aspects of Coal Mine Design United States. Bureau of Mines, 1974. SPE Reservoir Engineering, 1992. **Petroleum Reservoir Management** Pathak, 2021-08-20. Petroleum reservoir management considerations and practices are deeply rooted in the optimization of development objectives, requisite investments, operational costs, and philosophy, in addition to the dynamics of timely decision making. *Petroleum Reservoir Management: Considerations and Practices* highlights the key reservoir management topics and issues that engage the attention of exploration and production companies over the life cycle of an oilfield. This is the only book to exclusively address petroleum reservoir management based on actual field development experience. It emphasizes the role of good project management, the value of a quantitative assessment of reservoir health, the importance of using good practices, and the need for true collaboration among various team players to maximize the benefits. The book expands the scope of reservoir management from field operations to boardroom discussions about capital financing, to product pricing, criteria, mechanisms, and strategies.

FEATURES: Reviews subsurface and surface management issues. Discusses project and price management factors critical to the oil industry. Describes macromanagement issues covering the reservoir life cycle from production to pricing. Includes the role and significance of teamwork, open communication, and synergy in reservoir management. This book is aimed at professionals and graduate students in petroleum and reservoir engineering, oil and gas companies, and environmental engineering.

Information Circular, 1974. *Water-Soluble Polymers for Petroleum Recovery* G.A. Stahl, D.N. Schulz, 2012-12-06. We both found ourselves working on water-soluble polymers for oil recovery in the early 1980s. Our previous backgrounds involved the synthesis and characterization of hydrocarbon polymers for everything from elastomers to plastics. As such, we were largely unprepared for the special difficulties associated with water-soluble polymers in general and their use in enhanced oil recovery (EOR) in particular. Oil patch applications have a jargon and technical heritage quite apart from that usually experienced by traditional polymer scientists. At that time, no books were available to

help us get up to speed in the polymers for oil recovery field Since then there have been a number of symposia on this topic but still few books especially from the polymer rather than the field applications perspective Synthetic water soluble swellable polymers have commercial importance in such application as water treatment cosmetics and foods Yet these polymers have not received the scientific technological attention they deserve The application of water soluble polymers to oil recovery has in fact highlighted the need for new water based materials and a fundamental understanding of their structure and use Interest has been spurred not only for the potential economic credits from enhanced oil recovery and an augmented polymers business but also by the challenge of designing water soluble polymers for harsh environments

Introduction to the Physics of Rocks Yves Guéguen, Victor Palciauskas, 1994 Finding viable solutions to many of the problems threatening our environment hinges on understanding the rocks below the earth's surface For those evaluating the relative hazards of radioactive waste sites investigating energy resources such as oil gas and hydrothermal energy studying the behavior of natural hazards like earthquakes and volcanoes or charting the flow of groundwater through the earth this book will be indispensable Until now there has been no book that treats the subject of the nature and behavior of rocks in a comprehensive yet accessible manner Yves Guéguen and Victor Palciauskas first discuss the physical properties of rocks proceeding by chapter through mechanical fluid flow acoustical electrical dielectric thermal and magnetic properties Then they provide the theoretical framework for achieving reliable data and making reasonable inferences about the aggregate system within the earth Introduction to the Physics of Rocks covers the important and most current theoretical approaches to the physics of inhomogeneous media including theoretical bounds on properties various effective medium theories percolation and fractals This book will be of use to students and researchers in civil petroleum and environmental engineering and to geologists geophysicists hydrologists and other earth scientists interested in the physics of the earth Its clear presentation with problems at the end of each chapter and selective references will make it ideal for advanced undergraduate or graduate level courses

Essentials of Polymer Flooding Technique Antoine Thomas, 2019-05-06 Provides an easy to read introduction to the area of polymer flooding to improve oil production The production and utilization of oil has transformed our world However dwindling reserves are forcing industry to manage resources more efficiently while searching for alternative fuel sources that are sustainable and environmentally friendly Polymer flooding is an enhanced oil recovery technique that improves sweep reduces water production and improves recovery in geological reservoirs This book summarizes the key factors associated with polymers and polymer flooding from the selection of the type of polymer through characterization techniques to field design and implementation and discusses the main issues to consider when deploying this technology to improve oil recovery from mature reservoirs *Essentials of Polymer Flooding Technique* introduces the area of polymer flooding at a basic level for those new to petroleum production It describes how polymers are used to improve efficiency of chemical floods involving surfactants and alkaline solutions The book also offers a concise view of several key

polymer flooding topics that can't be found elsewhere These are in the areas of pilot project design field project engineering water quality oxygen removal polymer dissolution equipment filtration pumps and other equipment produced water treatment economics and some of the important field case histories that appear in the last section Provides an easy to read introduction to polymer flooding to improve oil production whilst presenting the underlying mechanisms Employs In A Nutshell key point summaries at the end of each chapter Includes important field case studies to aid researchers in addressing time and financial consumption in dealing with this issue Discusses field engineering strategies appropriate for professionals working in field operation projects Essentials of Polymer Flooding Technique is an enlightening book that will be of great interest to petroleum engineers reservoir engineers geoscientists managers in petroleum industry students in the petroleum industry and researchers in chemical enhanced oil recovery methods **Report of Investigations**, 1978

Recovery of Byproduct Heavy Minerals from Sand and Gravel Operations in Central and Southern California John M. Gomes, George M. Martinez, Morton Min Wong, 1980

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