



# WATERFLOODING

G. Paul Willhite

# Waterflooding Spe Textbook Series

**DP Hallahan**



## **Waterflooding Spe Textbook Series:**

**Waterflooding** G. Paul Willhite, 1986 Waterflooding begins with understanding the basic principles of immiscible displacement then presents a systematic procedure for designing a waterflood 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 *SPE Advanced Technology Series*, 1994 **Principles of Applied Reservoir Simulation** John R. Fanchi, 2005-12-08 The hottest most important topic to reservoir engineers is reservoir simulation Reservoir simulations are literally pictures of what a reservoir of oil or gas looks or should look like under the surface of the earth A multitude of tools is available to the engineer to generate these pictures and essentially the more accurate the picture the easier the engineer can get the product out of the ground and thus the more profitable the well will be Completely revised and updated throughout this new edition of a GPP industry standard has completely new sections on coalbed methane CO<sub>2</sub> sequestration important for environmental concerns CO<sub>2</sub> Flood more sophisticated petrophysical models for geoscientists examples of subsidence additional geomechanical calculations and much more What makes this book so different and valuable to the engineer is the accompanying software used by reservoir engineers all over the world every day The new software IFLO replacing WINB4D

in previous editions is a simulator that the engineer can easily install in a Windows operating environment IFLO generates simulations of how the well can be tapped and feeds this to the engineer in dynamic 3D perspective This completely new software is much more functional with better graphics and more scenarios from which the engineer can generate simulations This book and software helps the reservoir engineer do his or her job on a daily basis better more economically and more efficiently Without simulations the reservoir engineer would not be able to do his or her job at all and the technology available in this product is far superior to most companies internal simulation software It is also much less expensive 89 95 versus hundreds or even thousands of dollars than off the shelf packages available from independent software companies servicing the oil and gas industry It is however just as or more accurate than these overpriced competitors having been created by a high profile industry expert and having been used by engineers in the real world with successful and profitable results This reference is THE industry standard to successfully modelling reservoirs obtaining maximum supply and profiting from oil and gas reservoirs Includes downloadable software of the new IFLO reservoir simulation software that can save your company thousands of dollars This edition has been updated to included new sections on environmentally important issues such as CO2 sequestration coalbed methane CO2 Flood The third edition also provides more sophisticated petrophysical models examples of subsidence and additional geomechanical calculations     *Surfactants* Laurier Lincoln Schramm, Laurier L. Schramm, 2000-03-23 This 2000 book provides an introduction to the nature occurrence physical properties propagation and uses of surfactants in the petroleum industry     *ENSCO* Carolyn Barta, 2008-12-01 Colorful and masterfully written Carolyn Barta captures the impressive history of one of the most renowned offshore drilling companies in the world ENSCO The First Twenty Years tells the brilliant tale of a company that legendary founder Carl Thorne originated from piles of rust and leftover assets into a premium thriving and successful enterprise for the worldwide oil and gas industry With forwards from acclaimed author Matthew Simmons and former Governor of Texas and SEDCO founder Bill Clements this must read for all energy historians is a true story of how entrepreneurship will prevail when you have determined people and the right leader     *Advances in Porous Media* M.Y. Corapcioglu, 1996-12-06 *Advances in Porous Media* Volume 3 presents in depth review papers that give a comprehensive coverage of the field of transport in porous media This is the third volume in the series which treats transport phenomena in porous media as an interdisciplinary topic The objective of each chapter is to review the work done on a specific topic including theoretical numerical as well as experimental studies All contributors are from a variety of backgrounds such as civil and environmental engineering earth and environmental sciences The articles are aimed at scientists and engineers from various fields who are concerned with the fundamentals and applications of processes in porous media *Advances in Porous Media* Volume 3 is a valuable source of information for both researchers in the field and those working in other related disciplines     *Advances in the Flow and Rheology of Non-Newtonian Fluids* D.A. Siginer, D. De Kee, R.P. Chhabra, 1999-05-07 These two volumes contain chapters written by experts in such areas as bio and food

rheology polymer rheology flow of suspensions flow in porous media electrorheological fluids etc Computational as well as analytical mathematical descriptions involving appropriate constitutive equations deal with complex flow situations of industrial importance This work is unique in that it brings together state of the art reviews and recent advances in a variety of areas involving viscoelastic materials in a desirable and timely manner Essentials of Reservoir ... Pierre Donnez,

*Proceedings ... SPE Annual Technical Conference and Exhibition* Society of Petroleum Engineers (U.S.). Technical Conference and Exhibition,1997 **Petroleum Engineering Handbook** Larry W. Lake,2007 **Tracers in the Oil Field** B. Zemel,1995-01-13 This book is concerned with the application of tracers to a wide variety of oil field operations It provides the necessary nuclear concepts and techniques which are basic to oil field tracer applications Laboratory and field techniques are explained and illustrated as are the associated regulatory and safety aspects Within the book each area of oil field use is considered separately and specific applications of tracers discussed and relevant literature reviewed The use of non radioactive tracers is pointed out wherever it is applicable Due to the nature of this competitive industry much research is poorly documented thus *Tracers in the Oil Field* aims to make the technology more available to current users in the oil field

Integrated Reservoir Asset Management John Fanchi,2010-07-19 All too often senior reservoir managers have found that their junior staff lack an adequate understanding of reservoir management techniques and best practices needed to optimize the development of oil and gas fields Written by an expert professional educator *Integrated Reservoir Asset Management* introduces the reader to the processes and modeling paradigms needed to develop the skills to increase reservoir output and profitability and decrease guesswork One of the only references to recognize the technical diversity of modern reservoir management teams Fanchi seamlessly brings together concepts and terminology creating an interdisciplinary approach for solving everyday problems The book starts with an overview of reservoir management fluids geological principles used to characterization and two key reservoir parameters porosity and permeability This is followed by an uncomplicated review of multi phase fluid flow equations an overview of the reservoir flow modeling process and fluid displacement concepts All exercises and case studies are based on the authors 30 years of experience and appear at the conclusion of each chapter with hints in addition of full solutions In addition the book will be accompanied by a website featuring supplementary case studies and modeling exercises which is supported by an author generated computer program Straightforward methods for characterizing subsurface environments Effortlessly gain and understanding of rock fluid interaction relationships An uncomplicated overview of both engineering and scientific processes Exercises at the end of each chapter to demonstrate correct application Modeling tools and additional exercise are included on a companion website **Statistics for Petroleum Engineers and Geoscientists** Jerry Jensen,2000-12-07 For many engineers statistics is the method of last resort when no deterministic method can be found to make sense of geological complexities This volume shows that geological data and geology often have a mutually beneficial effect especially in the diagnosis of complex geological phenomena

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

Integrated Waterflood Asset Management Ganesh C. Thakur, Abdus Satter, 1998 Waterflooding is one of the most important methods of improving recovery from oil reservoirs With the economic uncertainty of various enhanced oil recovery techniques due to oil price instability waterflooding optimization is more significant than ever This book provides a thorough understanding of the practical approach to waterflood asset management It uses multidisciplinary integrated teams and resource management practices to enhance hydrocarbon recovery and maximize profitability Satter and Thakur are co authors of PennWell Books bestseller Integrated Reservoir Management A Team Approach Readers Will Learn the fundamentals of waterflood management and multidisciplinary technology the team approach to management through real life examples and the integration of engineering geology and geophysics with operations research economics and legal environmental processes for effective waterflood asset management Sustainability Issues in Environmental Geotechnics

Hesham Ameen, Tamer Sorour, 2018-10-27 This edited volume deals with the attempts made by the scientists and practitioners to address contemporary issues in geoenvironmental engineering such as characterization of dredged sediments geomaterials and waste valorization of waste sustainability in waste management and some other geoenvironmental issues that are becoming quite relevant in today's world especially in view of the high urbanization rates advancement in technologies and changes in consumption behavior of people In this regard wastes generated through the daily activities of individuals and organizations pose many challenges in their management The volume is based on the best contributions to the 2nd GeoMEast International Congress and Exhibition on Sustainable Civil Infrastructures Egypt 2018 The official international congress of the Soil Structure Interaction Group in Egypt SSIGE **Application of thermal**

**methods to enhanced oil recovery: Numerical and experimental investigations** Taofik Nassan, 2024-12-05 Reservoir simulation is a powerful tool to model fluid flow within oil and gas reservoirs and predict their behaviour This dissertation is devoted primarily to model some thermal enhanced oil recovery TEOR methods Two software were used for this purpose and namely Comsol Multiphysics and CMG Computer Modelling Group The dissertation can be classified into three parts and all of them are standalone that discuss different topics within TEOR The work starts with reviewing enhanced oil recovery EOR methods with concentration on thermal methods TEOR for heavy oil and bitumen Basics of mathematical modelling of single two phase and three phase flow in porous media that is the base of all commercial and scientific reservoir simulation software are reviewed Formulations of the set of representative PDEs are reviewed and other formulations are suggested and applied directly in subsequent sections in Comsol Multiphysics Part 1 The application of finite element method FEM in reservoir simulation has been discussed and evaluated using Comsol Multiphysics package which is based on Galerkin approach In the demonstrated problems the mathematical model is solved using mathematics module in Comsol Multiphysics Energy equation in 1D Buckley Leverett benchmark two phase flow model on inverted 5 spot scheme in 3D and SAGD process PDE model are all solved and discussed FEM using Comsol Multiphysics looks promising at moderate mobility ratios Part 2 A comparison of water flooding with steam injection in heavy oil reservoirs as secondary stage is demonstrated and discussed The whole modelling was achieved by CMG STARS A comparison of five different scenarios is shown SPE4 comparative project data were used for this purpose The results showed that steam can achieve more recovery in a short period of time with an ultimate recovery factor higher than cold recovery followed by steam flooding process Part 3 A series of flooding and in situ combustion experimental work that has been achieved in Kazan Federal University in cooperation with Institute of Drilling Engineering and Fluid Mining IBF is elaborated briefly and discussed Four experiments with different core samples consolidated and unconsolidated were run between 05 2020 and 05 2021 The samples were taken from a Russian extra heavy oilfield with initial viscosity around 600 000 cP The results were evaluated and a numerical model was built using CMG STARS The numerical results were correlating the experimental results Relative permeability data were history matched for flooding processes and this data was used for in situ combustion model Modelling of the reactions in in situ combustion was a challenge to match the experimental results The final results showed that steam injection was not the best recovery method for this oilfield and in situ combustion was the best available technique with the highest recovery factor

*Wettability* Erle C. Donaldson, Waqi Alam, 2013-11-25 The wettability of oil reservoirs is the most important factor controlling the rate of oil recovery providing a profound effect on petroleum production The petroleum industry has increased the research effort on wettability but so far there has been limited coverage on the topic Wettability reviews the major research and applications on wettability capillary pressure and improved recovery Critical topics including core preservation the effect of wettability on relative permeability surface forces such as van der Waals equation of state

petroleum traps and pore size effects are all included in this must-have handbook. Deciphering the techniques and examples will increase the efficiency and production of oil recovery, translating to stronger reservoir simulations and improved well production.

**Surfactants in Upstream E&P** Theis Solling, Muhammad Shahzad Kamal, Syed M. Shakil

Hussain, 2021-06-19 This edited book explores the use of surfactants in upstream exploration and production. E&P It provides a molecular mechanistic and application-based approach to the topic, utilising contributions from the leading researchers in the field of organic surfactant chemistry and surfactant chemistry for upstream E&P. The book covers a wide range of problems in enhanced oil recovery and surfactant chemistry which have a large importance in drilling, fracking, hydrate inhibition and conformance. It begins by discussing the fundamentals of surfactants and their synthesis. It then moves on to present their applicability to a variety of situations such as gas injections, shale swelling inhibition and acid stimulation. This book presents research in an evolving field, making it interesting to academics, postgraduate students and experts within the field of oil and gas.



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