

Improved Oil Recovery by Surfactant and Polymer Flooding

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Improved Oil Recovery By Surfactant And Polymer Flooding

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Improved Oil Recovery By Surfactant And Polymer Flooding:

Improved Oil Recovery by Surfactant and Polymer Flooding D.O. Shah, 2012-12-02 Improved Oil Recovery by Surfactant and Polymer Flooding contains papers presented at the 1976 AIChE Symposium on Improved Oil Recovery by Surfactant and Polymer Flooding held in Kansas City Organized into 18 chapters the book includes papers that introduce petroleum reservoirs and discuss interfacial tension molecular forces molecular aspects of ultralow interfacial tension the structure formation and phase inversion of microemulsions and thermodynamics of micellization and related phenomena Papers on adsorption phenomena at solid liquid interfaces and reservoir rocks as well as on flow through porous media studies on polymer solutions microemulsions and soluble oils are also provided Significant topics on molecular microscopic and macroscopic aspects of oil displacement in porous media by surfactant and polymer solutions and related phenomena are also discussed The literature cited in this book forms a comprehensive list of references in relation to improved oil recovery by surfactant and polymer flooding This book will be useful to experts and non experts in this field of research **Improved Oil Recovery by Surfactant and Polymer Flooding. Papers from the AIChE Symposium, Kansas City, Kan. 1976. Shah and R.S. Schechter**, 1977 Improved Oil Recovery by Surfactant and Polymer Flooding, 1977 Improved Oil Recovery by Surfactant and Polymer Flooding. AIChE (American Institute of Chemical Engineers) Symposium, Kansas City, Kansas, 1976 Dinech Ochhavlad Shah (1938- (editor)), Robert Samuel (editor) Schechter, 1977 **Chemical Enhanced Oil Recovery** Patrizio Raffa, Pablo Druetta, 2019-07-22 This book aims at presenting describing and summarizing the latest advances in polymer flooding regarding the chemical synthesis of the EOR agents and the numerical simulation of compositional models in porous media including a description of the possible applications of nanotechnology acting as a booster of traditional chemical EOR processes A large part of the world economy depends nowadays on non renewable energy sources most of them of fossil origin Though the search for and the development of newer greener and more sustainable sources have been going on for the last decades humanity is still fossil fuel dependent Primary and secondary oil recovery techniques merely produce up to a half of the Original Oil In Place Enhanced Oil Recovery EOR processes are aimed at further increasing this value Among these chemical EOR techniques including polymer flooding present a great potential in low and medium viscosity oilfields Describes recent advances in chemical enhanced oil recovery Contains detailed description of polymer flooding and nanotechnology as promising boosting tools for EOR Includes both experimental and theoretical studies About the Authors Patrizio Raffa is Assistant Professor at the University of Groningen He focuses on design and synthesis of new polymeric materials optimized for industrial applications such as EOR coatings and smart materials He co authored about 40 articles in peer reviewed journals Pablo Druetta works as lecturer at the University of Groningen RUG and as engineering consultant He received his Ph D from RUG in 2018 and has been teaching at a graduate level for 15 years His research focus lies on computational fluid dynamics CFD 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

Surfactants for Enhanced Oil Recovery Applications Muhammad Sagir,Muhammad Mushtaq,M. Suleman Tahir,Muhammad Bilal Tahir,Abdul Ravoof Shaik,2020-01-29 This book provides a concise treatise on the use of surfactants in enhanced oil recovery EOR including information on key types of surfactants and their respective applications in the wider petroleum industry The authors discuss carbon dioxide EOR alkaline surfactant polymer flooding strategies and the use of surfactants as a means of reducing interfacial tension while also paying special attention to the challenges involved in using surfactants for enhanced oil recovery such as the difficult issue of surfactant adsorption on reservoir rock All chapters highlight and are based on the authors own laboratory scale case studies Given its content the book offers a valuable asset for graduate students of petroleum and chemical engineering as well as researchers in the field of chemical enhanced oil recovery It will also be of interest to professionals involved in enhanced industrial oil recovery

Modern Chemical Enhanced Oil Recovery James J.Sheng,2010-11-25 Crude oil development and production in U S oil reservoirs can include up to three distinct phases primary secondary and tertiary or enhanced recovery During primary recovery the natural pressure of the reservoir or gravity drive oil into the wellbore combined with artificial lift techniques such as pumps which bring the oil to the surface But only about 10 percent of a reservoir s original oil in place is typically produced during primary recovery Secondary recovery techniques to the field s productive life generally by injecting water or gas to displace oil and drive it to a production wellbore resulting in the recovery of 20 to 40 percent of the original oil in place In the past two decades major oil companies and research organizations have conducted extensive theoretical and laboratory EOR enhanced oil recovery researches to include validating pilot and field trials relevant to much needed domestic commercial application while western countries had

terminated such endeavours almost completely due to low oil prices In recent years oil demand has soared and now these operations have become more desirable This book is about the recent developments in the area as well as the technology for enhancing oil recovery The book provides important case studies related to over one hundred EOR pilot and field applications in a variety of oil fields These case studies focus on practical problems underlying theoretical and modelling methods operational parameters e g injected chemical concentration slug sizes flooding schemes and well spacing solutions and sensitivity studies and performance optimization strategies The book strikes an ideal balance between theory and practice and would be invaluable to academicians and oil company practitioners alike Updated chemical EOR fundamentals providing clear picture of fundamental concepts Practical cases with problems and solutions providing practical analogues and experiences Actual data regarding ranges of operation parameters providing initial design parameters Step by step calculation examples providing practical engineers with convenient procedures

Advancements in Chemical Enhanced Oil Recovery Tushar Sharma,Krishna Raghav Chaturvedi,Tarek Ganat,Imtiaz Ali,2024-09-06 This comprehensive book presents the latest advances in chemical EOR considered to be an efficient technique to recover bypassed oil and residual oil trapped in reservoirs The volume first provides an introduction to chemical EOR and discusses its viability From there it delves in the various EOR methods including low salinity water flooding polymer and surfactant flooding foam flooding nanofluid flooding hybrid methods ionic liquid applications and others The book covers chemical synthesis of EOR agents and numerical simulation of compositional models in porous media including a description of possible application of nanotechnology acting as a booster of traditional chemical EOR processes

Enhanced Oil Recovery Field Case Studies James J.Sheng,2013-04-10 Enhanced Oil Recovery Field Case Studies bridges the gap between theory and practice in a range of real world EOR settings Areas covered include steam and polymer flooding use of foam in situ combustion microorganisms smart water based EOR in carbonates and sandstones and many more Oil industry professionals know that the key to a successful enhanced oil recovery project lies in anticipating the differences between plans and the realities found in the field This book aids that effort providing valuable case studies from more than 250 EOR pilot and field applications in a variety of oil fields The case studies cover practical problems underlying theoretical and modeling methods operational parameters solutions and sensitivity studies and performance optimization strategies benefitting academicians and oil company practitioners alike Strikes an ideal balance between theory and practice Focuses on practical problems underlying theoretical and modeling methods and operational parameters Designed for technical professionals covering the fundamental as well as the advanced aspects of EOR

Formation Damage during Improved Oil Recovery Bin Yuan,David Wood,2018-05-31 Formation Damage during Improved Oil Recovery Fundamentals and Applications bridges the gap between theoretical knowledge and field practice by presenting information on formation damage issues that arise during enhanced oil recovery Multi contributed technical chapters include sections on modeling and simulation lab experiments field case

studies and newly proposed technologies and methods that are related to formation damage during secondary and tertiary recovery processes in both conventional and unconventional reservoirs Focusing on both the fundamental theories related to EOR and formation damage this reference helps engineers formulate integrated and systematic designs for applying EOR processes while also considering formation damage issues Presents the first complete reference addressing formation damage as a result of enhanced oil recovery Provides the mechanisms for formation damage issues that are coupled with EOR Suggests appropriate preventative actions or responses Delivers a structured approach on how to understand the fundamental theories practical challenges and solutions *Enhanced Oil Recovery* Association de recherche sur les techniques d'exploitation du pétrole,1982 *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 *Enhanced Oil Recovery* ,1981-01-01 Enhanced Oil Recovery **Enhanced Oil Recovery** Ajay Mandal,Keka Ojha,2023-11-29 Oil recovery efficiency can be increased by applying the enhanced oil recovery EOR processes which are based on the improvement of mobility ratio reduction of interfacial tension between oil and water wettability alteration reduction of oil viscosity formation of oil banks and so forth This book describes the different EOR methods and their mechanisms which are traditionally used after conventional primary and secondary processes The present scenario of different EOR processes at both the field application stage and research stage is also covered Further it discusses some of the recent advances in EOR processes such as low salinity water flooding the application of nanotechnology in EOR microbial EOR carbonated water injection etc Features Comprehensive coverage of all enhanced oil recovery EOR methods Discussion of reservoir rock and fluid characteristics Illustration of steps in design and field implementation as well as the screening criteria for process selection Coverage of novel topics of nanotechnology in EOR and hybrid EOR method and low salinity waterfloods Emphasis on recent technologies feasibility and implementation of hybrid technologies This book is aimed at

graduate students professionals researchers chemists and personnel involved in petroleum engineering chemical engineering surfactant manufacturing polymer manufacturing oil gas service companies and carbon capture and utilization

Enhanced Oil Recovery Field Case Studies James J. Sheng, 2013-04-10 In this chapter the fundamentals of surfactant flooding are covered which include microemulsion properties phase behavior interfacial tension capillary desaturation surfactant adsorption and retention and relative permeabilities The surfactant polymer interactions are discussed The mechanisms and screening criteria are briefly discussed The field cases presented include low tension waterflooding Loma Novia Wichita County Regular field sequential micellar polymer flooding El Dorado Sloss micellar polymer flooding Torchlight and Delaware Childers and Minas SP project preparation and SP flooding Gudong *Enhanced Oil Recovery*

Field Case Studies Harry L. Chang, 2013-04-10 This chapter covers the alkaline surfactant polymer ASP process and field results Background information describing the history of alkaline alkaline surfactant alkaline polymer and ASP flooding processes is given followed by a review of the requirement of high acid content in the crude oil for these processes to be effective **Enhanced Oil Recovery, II** E.C. Donaldson, G.V. Chilingarian, T.F. Yen, 1989-07-01 Written by foremost experts in the field and formulated with attention to classroom use for advanced studies in reservoir characterization and processes this book reviews and summarises state of the art progress in the field of enhanced oil recovery EOR All of the available techniques alkaline flooding surfactant flooding carbon dioxide flooding steam flooding in situ combustion gas injection miscible flooding microbial recovery and polymer flooding are discussed and compared Together with Volume I it presents a complete text on enhanced recovery technology and hence is an almost indispensable reference text This second volume complements the first by presenting as complete an analysis as possible of current oilfield theory and technology for accomplishment of maximum production of oil Many different processes have been developed and field tested for enhancement of oil recovery The emerging philosophy is that no single process is applicable to all petroleum reservoirs Each must be treated as unique and carefully evaluated for characteristics that are amenable to one or two of the proven technologies of EOR This book will aid the engineer in field evaluation and selection of the best EOR technology for a given oilfield Even the emerging technology of microbial applications to enhance oil recovery are reviewed and explained in terms that are easily understood by field engineers The book is presented in a manner suitable for graduate studies The only addition required of teachers is to supply example problems for class work An appendix includes a reservoir mathematic model and program for general application that can also be used for teaching *Enhanced Oil Recovery, I* E.C.

Donaldson, G.V. Chilingarian, T.F. Yen, 1985-02-01 An in depth study of the fundamental aspects of enhanced oil recovery EOR this book brings together detailed analyses of proven techniques It begins with the current theories of the origin of oil and ends with a treatise on waterflooding which is the basis of the majority of EOR processes Two and three phase relative permeability relationships are discussed since they form the basis for fluid flow processes in porous media The advent of EOR

has increased the need for a better understanding of three phase flow because this has become an integral part of carbon dioxide and steam injection yet is an area of experimental study that has been seriously neglected The book gives a complete review and theoretical analysis of two and three phase fluid flow plus a basic introduction to single well pressure transient testing which is essential to the evaluation of volume intrinsic reservoir pressure reservoir discontinuities in situ permeability and many other data required for complete reservoir evaluation A discussion of oilfield waters is followed closely by the chemical and physical properties of employing various current EOR techniques The book will interest a wide range of readers Teachers of petroleum engineering will find it a ready reference to basic requirements for implementation of various EOR processes Petroleum engineering researchers can use it to review the current state of the art of the basic premise of EOR and find in it the necessary background analyses for projection of future research The field oriented practical petroleum engineer will discover it to be a reliable reference to criteria for pre EOR reservoir analysis

Chemical Nanofluids in Enhanced Oil Recovery Rahul Saha, Pankaj Tiwari, Ramgopal V.S. Uppaluri, 2021-09-14 Sustainable world economy requires a steady supply of crude oil without any production constraints Thus the ever increasing energy demand of the entire world can be mostly met through the enhanced production from crude oil from existing reservoirs With the fact that newer reservoirs with large quantities of crude oil could not be explored at a faster pace it will be inevitable to produce the crude oil from matured reservoirs at an affordable cost Among alternate technologies the chemical enhanced oil recovery EOR technique has promising potential to recover residual oil from matured reservoirs being subjected to primary and secondary water flooding operations Due to pertinent complex phenomena that often have a combinatorial role and influence the implementation of chemical EOR schemes such as alkali surfactant polymer flooding and their combinations necessitates upon a fundamental understanding of the potential mechanisms and their influences upon one another and desired response variables Addressing these issues the book attempts to provide useful screening criteria guidelines and rules of thumb for the identification of process parametric sets including reservoir characteristics and response characteristics such as IFT adsorption etc that favor alternate chemical EOR systems Finally the book highlights the relevance of nanofluid nanoparticle for conventional and unconventional reservoirs and serves as a needful resource to understand the emerging oil recovery technology Overall the volume will be of greater relevance for practicing engineers and consultants that wish to accelerate on field applications of chemical and nano fluid EOR systems Further to those budding engineers that wish to improvise upon their technical know how the book will serve as a much needed repository

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