

JAMES J. SHENG **Modern**
Chemical Enhanced
Oil **Recovery**
Theory and Practice



Modern Chemical Enhanced Oil Recovery Theory And Practice

**Rahul Saha, Pankaj Tiwari, Ramgopal
V.S. Uppaluri**



Modern Chemical Enhanced Oil Recovery Theory And Practice:

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

Modern Chemical Enhanced Oil Recovery James Sheng, 2017-11-13 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

Theory and Practice in Microbial Enhanced Oil Recovery Kun Sang Lee, Tae-Hyuk Kwon, Taehyung Park, Moon Sik Jeong, 2020-07-18 Selection of the optimal recovery method is significantly influenced by economic issues in today's oil and gas markets Consequently the development of cost effective technologies which bring maximum oil recovery is the main interest in today's petroleum research communities Theory and Practice in Microbial Enhanced Oil Recovery provides the fundamentals latest research and creditable field applications Microbial Enhanced Oil Recovery MEOR is potentially a low priced and eco friendly technique in which different microorganisms and their metabolic products are implemented to recover the remaining oil in the reservoir Despite drastic advantages of MEOR technology it is still not fully supported in the industry due to lack of knowledge on microbial activities and their complexity of the process While some selected strategies have demonstrated the feasibility to be used on a mass scale through both lab and field trials more research remains to implement MEOR into more oil industry practices This reference delivers comprehensive descriptions on the fundamentals including basic theories on geomicrobiology experiments and modeling as well as current tested field applications Theory and Practice in Microbial Enhanced Oil Recovery gives engineers and researchers the tool needed to stay up to date on this evolving and more sustainable technology Covers fundamental screening criteria and theories selective plugging and mobility control mechanisms Describes the basic effects on environmental parameters and the mechanics of simulation including microbial growth kinetics Applies up to date practical applications proven in both the lab and the field

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

Chemical Enhanced Oil Recovery (cEOR) Laura Romero-Zerón, 2016-10-19 Commercial application of chemical enhanced oil recovery cEOR processes is expected to grow significantly over the next decade Thus Chemical Enhanced Oil Recovery cEOR A Practical Overview offers key knowledge and understanding of cEOR processes using an evidence based approach intended for a broad audience ranging from field operators researchers to reservoir engineers dealing with the development and planning of cEOR field applications This book is structured into three sections the first section surveys overall EOR processes The second section focuses on cEOR processes while the final section describes the electrorheology technology These sections are presented using a practical and realistic approach tailored for readers looking to improve their knowledge and understanding of cEOR processes in a nutshell

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

Hybrid Enhanced Oil Recovery Using Smart Waterflooding Kun Sang Lee, Ji Ho Lee, 2019-04-03 Hybrid Enhanced Oil Recovery Using Smart Waterflooding explains the latest technologies used in the integration of low salinity and smart waterflooding in other EOR processes to reduce risks attributed to numerous difficulties in existing technologies also introducing the synergetic effects Covering both lab and field work and the challenges ahead the book delivers a cutting edge product for today s reservoir engineers Explains how smart waterflooding is beneficial to each EOR process such as miscible chemical and thermal technologies Discusses the mechanics and modeling involved using geochemistry Provides extensive tools such as reservoir simulations through experiments and field tests establishing a bridge between theory and practice

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

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

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 *Chemical Methods* Abdolhossein Hemmati-Sarapardeh, Mahin Schaffie, Mohammad Ranjbar, Mingzhe Dong, Zhaomin Li, 2021-11-30 Chemical Methods a new release in the Enhanced Oil Recovery series helps engineers focus on the latest developments in one fast growing area Different techniques are described in addition to the latest technologies in data mining and hybrid processes Beginning with an introduction to chemical concepts and polymer flooding the book then focuses on more complex content guiding readers into newer topics involving smart water injection and ionic liquids for EOR Supported field case studies illustrate a bridge between research and practical application thus making the book useful for academics and practicing engineers This series delivers a multi volume approach that addresses the latest research on various types of EOR Supported by a full spectrum of contributors this book gives petroleum engineers and researchers the latest developments and field applications to drive innovation for the future of energy Presents the latest research and practical applications specific to chemical enhanced oil recovery methods Helps users understand new research on available technology including chemical flooding specific to unconventional reservoirs and hybrid chemical options Includes additional methods such as data mining applications and economic and environmental considerations *Fundamentals of Enhanced Oil and Gas Recovery from Conventional and Unconventional Reservoirs* Alireza Bahadori, 2018-08-18 Fundamentals of Enhanced Oil and Gas Recovery from Conventional and Unconventional Reservoirs delivers the proper foundation on all types of currently utilized and upcoming enhanced oil recovery including methods used in emerging unconventional reservoirs Going beyond traditional secondary methods this reference includes advanced water based EOR methods which are becoming more popular due to CO2 injection methods used in EOR and methods specific to target shale oil and gas activity Rounding out with a chapter devoted to optimizing the application and economy of EOR methods the book brings reservoir and petroleum engineers up to speed on the latest studies to apply Enhanced oil recovery continues to grow in technology and with ongoing unconventional reservoir activity underway enhanced oil recovery methods of many kinds will continue to gain in studies and scientific advancements Reservoir engineers currently have multiple outlets to gain knowledge and are in need of one product go to reference Explains enhanced oil recovery methods focusing specifically on those used for unconventional reservoirs Includes real world case studies and examples to further illustrate points Creates a practical and theoretical foundation with multiple contributors from various backgrounds Includes a full range of the latest and future methods for enhanced oil recovery including chemical waterflooding CO2 injection and thermal *Nanotechnology in Enhanced Oil Recovery* Krupal M.

Gangawane,Abhishek Kumar,2025-03-31 This book presents an in depth analysis of the various nanotechnologies that have been developed and their potential application in enhanced oil recovery EOR It begins with an introduction to EOR and the current state of the oil and gas industry followed by discussion of various nanoparticles used in EOR including metal and metal oxide nanoparticles carbon based nanoparticles and composite nanoparticles Features Explains the various mechanisms by which nanoparticles can enhance oil recovery and the challenges and limitations of using nanotechnology in EOR Provides a comprehensive analysis of how nanoparticles affect EOR practical application and simulation Explores stepwise information about the utility of nanotechnology in EOR Includes dedicated case study chapters to get an in depth idea of EOR by using nanotechnology Illustrates various essential parameters affecting the EOR Discusses the challenges of nanotechnology based EOR This book is aimed at graduate students researchers and professionals in Petroleum and Chemical Engineering and Nanotechnology

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

Introduction to Enhanced Oil Recovery (EOR) Processes and Bioremediation of Oil-Contaminated Sites
Laura Romero-Zerón,2012-05-23 This book offers practical concepts of EOR processes and summarizes the fundamentals of bioremediation of oil contaminated sites The first section presents a simplified description of EOR processes to boost the recovery of oil or to displace and produce the significant amounts of oil left behind in the reservoir during or after the course of any primary and secondary recovery process it highlights the emerging EOR technological trends and the areas that need research and development while the second section focuses on the use of biotechnology to remediate the inevitable environmental footprint of crude oil production such is the case of accidental oil spills in marine river and land environments The readers will gain useful and practical insights in these fields

Methods for Enhanced Oil Recovery Baghir A. Suleimanov,Elchin F. Veliyev,2025-09-22 An authoritative theoretical explanation of enhanced oil recovery combined with practical how to instructions on the real world implementation of EOR In Methods for Enhanced Oil Recovery Fundamentals and Practice a team of distinguished researchers delivers a comprehensive and in depth exploration of the rapidly evolving

field of enhanced oil recovery EOR The authors dive deep into the granular details of petroleum geology hydrocarbon classification and oil reserve assessment while also explaining a variety of EOR techniques like thermal chemical gas injection and microbial approaches The book is heavily focused on advanced methods of EOR with accompanying analyses of contemporary techniques It includes innovative new approaches to the discipline presenting each method with a theoretical background and practical guidelines for implementation in the field Readers will also find specific coverage of the criteria they should use to select appropriate EOR methods for specific reservoirs and the technological processes necessary to implement these methods in operational settings Inside the book A thorough introduction to the laboratory evaluation of oil bearing rock properties Contemporary case studies from oil fields in a variety of regions that illustrate the benefits and challenges of implementing EOR technologies Practical discussions of the economic implications of EOR methods Complete treatments of fundamental reservoir engineering concepts Perfect for students of petroleum engineering Methods for Enhanced Oil Recovery Fundamentals and Practice will also benefit practicing petroleum engineers seeking a solid theoretical foundation into EOR combined with real world practical insights they can apply immediately

Surfactants and Detergents Ashim Dutta,2022-09-28 Surfactants are ubiquitous and have applications in diverse areas including food cosmetics detergents lubricants enhanced oil recovery EOR and targeted drug delivery systems Their wide diversity of applications owes to their unique structure namely a hydrophilic and a hydrophobic group present in the same molecule Although most surfactants used industrially are synthetic there is a growing need for natural surfactants as the latter is obtainable from renewable sources and are less toxic and highly biodegradable in contrast to their synthetic counterparts This book is a compilation of interesting articles by various experts that cover various applications of both synthetic and natural surfactants

Enhanced Oil Recovery in Shale and Tight Reservoirs James J.Sheng,2019-11-07 Oil Recovery in Shale and Tight Reservoirs delivers a current state of the art resource for engineers trying to manage unconventional hydrocarbon resources Going beyond the traditional EOR methods this book helps readers solve key challenges on the proper methods technologies and options available Engineers and researchers will find a systematic list of methods and applications including gas and water injection methods to improve liquid recovery as well as spontaneous and forced imbibition Rounding out with additional methods such as air foam drive and energized fluids this book gives engineers the knowledge they need to tackle the most complex oil and gas assets Helps readers understand the methods and mechanisms for enhanced oil recovery technology specifically for shale and tight oil reservoirs Includes available EOR methods along with recent practical case studies that cover topics like fracturing fluid flow back Teaches additional methods such as soaking after fracturing thermal recovery and microbial 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

Economically and Environmentally Sustainable Enhanced Oil Recovery M. R. Islam, 2020-03-17 There have been many books on the topic of Enhanced Oil Recovery EOR over the last 100 years They all however focus on how to recover more oil faster taking a rather myopic approach The solutions presented all work fantastically in theory and even in the laboratory but each fails to produce results in the field with long term success The petroleum industry is almost resigned to the belief that for an EOR technique to be successful it must be propped up with public funds or must compromise environmental integrity In line with modern engineering practices previous books discuss how existing technologies can be tweaked to accommodate for any shortcomings that just came to light This book is unlike any other book on the topic of recovery in particular and engineering in general This groundbreaking volume is a continuation of the author's and his research group's work that started publishing on the subject of global sustainability involving energy and the environment dating back to early 2000s Starting with a paradigm shift in engineering that involves a long term focus rather than looking for short term solutions the methods and theories presented here delve into applying green engineering and zero waste principles to EOR Historically EOR has received mixed success mainly because innovations in these disciplines relied heavily on processed materials which are both uneconomical and toxic to the environment This book explains how engineers missed entirely the causes of unsustainability in these technologies due to the prevalence of many myths that are embedded in modern engineering Once these myths are deconstructed the appropriate technologies emerge and the merits of them both in terms of economic and environmental benefits become clear The book reveals how previous practices in EOR can be replaced with their sustainable versions while saving in material costs A number of innovative technologies are introduced that can render well known technologies such as steam flood in situ combustion chemical flooding and microbial EOR environmentally sustainable and economically attractive A triple dividend is received once these technologies are applied in otherwise marginal reservoirs unconventional plays and even abandoned formations The overall reserve which reflects recoverable oil with new technologies goes up drastically Further benefits are drawn when processes such as value addition of waste material is performed Overall this book shows how EOR can be rendered green while increasing the profitability This is in stark contrast to the past practices that considered environmental integrity as a

drain on profitability This book proves that a paradigm shift can turn a technological disaster into a technological marvel

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