

Enhanced Oil Recovery Techniques And Nitrogen Injection Pdf

G. Paul Willhite

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).

Carbon Sequestration Atlas of the United States and Canada, 2008 The second edition of the Carbon Sequestration Atlas of the United States and Canada contains three main sections: (1) Introduction, (2) National Perspectives, and (3) Regional Perspectives. The Introduction section contains an overview of CCS technologies, a summary of the DOE's efforts in the CCS area, a brief description of the RCSP Program, and information on the National Carbon Sequestration Database and Geographic Information System (NATCARB). The National Perspectives section provides maps showing the number, location, and magnitude of identified CO₂ stationary sources in the U.S. and portions of Canada, as well as the areal extent and estimated CO₂ storage resource available in geologic formations evaluated within the RCSP Regions. The National

Perspectives section also contains a summary of the methodologies and assumptions employed to calculate CO₂ emissions and estimated CO₂ storage resource of various geologic formations. The Regional perspectives section includes a detailed presentation of CO₂ stationary sources, CO₂ storage resource assessments, updates on field projects, and information on commercialization opportunities in each RCSP based on these methodologies and assumptions.

Waterflooding G. Paul Willhite, 1986 Waterflooding begins with understanding the basic principles of immiscible displacement, then presents a systematic procedure for designing a waterflood.

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

Primer on Enhanced Oil Recovery Vladimir Vishnyakov, Baghir Suleimanov, Ahmad Salmanov, Eldar Zeynalov, 2019-11-06 Primer on Enhanced Oil Recovery gives the oil and gas market the introductory information it needs to cover the physical and chemical properties of hydrocarbon reservoir fluids and rock, drilling operations, rock-fluid interactions, recovery methods, and the economy of enhanced oil recovery projects. Beginning with introductory materials on basic physics and oil-rock interaction, the book then progresses into well-known types of EOR, such as gas injection and microbial EOR. Other sections cover hybrid EOR, smart water/low salinity and solar EOR. Worldwide case study examples give engineers the go-to starting point they need to understand the fundamentals of EOR techniques and data.

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.

Basic Concepts in Enhanced Oil Recovery Processes M. Baviere,1991

Oil and Gas Production Handbook: An Introduction to Oil and Gas Production Havard Devold,2013

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

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

Essentials of Polymer Flooding Technique Antoine Thomas,2019-04-05 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.

Gas Cycling Alexandre Rojey,1999 Contents: Gas cycling: the industrial stakes. Gas injection and production: an integrated approach. Acid gas reinjection engineering view point. Technological developments in sour gas processing. Global loop concept. Injection of CO₂ into an aquifer for storage. Handil field: tertiary oil recovery by gas injection. Panel discussion: the future of the global approach to gas cycling. Natural gas for tomorrow.

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 Recovery Methods for Heavy Oil and Tar Sands James G. Speight, 2016-02-24 Introduction to Enhanced Recovery Methods for Heavy Oil and Tar Sands, Second Edition, explores the importance of enhanced oil recovery (EOR) and how it has grown in recent years thanks to the increased need to locate unconventional resources such as heavy oil and shale. Unfortunately, petroleum engineers and managers aren't always well-versed in the enhancement methods that are available when needed or the most economically viable solution to maximize their reservoir's productivity. This revised new edition presents all the current methods of recovery available, including the pros and cons of each. Expanded and updated as a great preliminary text for the newcomer to the industry or subject matter, this must-have EOR guide teaches all the basics needed, including all thermal and non-thermal methods, along with discussions of viscosity, sampling, and the technologies surrounding offshore applications. - Enables users to quickly learn how to choose the most efficient recovery method for their reservoir while evaluating economic conditions - Presents the differences between each method of recovery with newly added real-world case studies from around the world - Helps readers stay competitive with the growing need of extracting unconventional resources with new content on how these complex reservoirs interact with injected reservoir fluids

Processing of Heavy Crude Oils Ramasamy Marappa Gounder, 2019 Unconventional heavy crude oils are replacing the conventional light crude oils slowly but steadily as a major energy source. Heavy crude oils are cheaper and present an opportunity to the refiners to process them with higher profit margins. However, the unfavourable characteristics of heavy crude oils such as high viscosity, low API gravity, low H/C ratio, chemical complexity with high asphaltenes content, high acidity, high sulfur and increased level of metal and heteroatom impurities impede extraction, pumping, transportation and processing. Very poor mobility of the heavy oils, due to very high viscosities, significantly affects production and transportation. Techniques for viscosity reduction, drag reduction and in-situ upgrading of the crude oil to improve the flow characteristics in pipelines are presented in this book. The heavier and complex molecules of asphaltenes with low H/C ratios present many technological challenges during the refining of the crude oil, such as heavy coking on catalysts. Hydrogen addition and carbon removal are the two approaches used to improve the recovery of value-added products such as gasoline and diesel. In addition, the heavy crude oil needs pre-treatment to remove the high levels of impurities before the crude oil

can be refined. This book introduces the major challenges and some of the methods to overcome them.

CIGOS 2019, Innovation for Sustainable Infrastructure Cuong Ha-Minh, Dong Van Dao, Farid Benboudjema, Sybil Derrible, Dat Vu Khoa Huynh, Anh Minh Tang, 2019-10-10 This book presents selected articles from the 5th International Conference on Geotechnics, Civil Engineering Works and Structures, held in Ha Noi, focusing on the theme “Innovation for Sustainable Infrastructure”, aiming to not only raise awareness of the vital importance of sustainability in infrastructure development but to also highlight the essential roles of innovation and technology in planning and building sustainable infrastructure. It provides an international platform for researchers, practitioners, policymakers and entrepreneurs to present their recent advances and to exchange knowledge and experience on various topics related to the theme of “Innovation for Sustainable Infrastructure”.

Efficient Simulation of Thermal Enhanced Oil Recovery Processes Zhouyuan Zhu, 2011 Simulating thermal processes is usually computationally expensive because of the complexity of the problem and strong nonlinearities encountered. In this work, we explore novel and efficient simulation techniques to solve thermal enhanced oil recovery problems. We focus on two major topics: the extension of streamline simulation for thermal enhanced oil recovery and the efficient simulation of chemical reaction kinetics as applied to the in-situ combustion process. For thermal streamline simulation, we first study the extension to hot water flood processes, in which we have temperature induced viscosity changes and thermal volume changes. We first compute the pressure field on an Eulerian grid. We then solve for the advective parts of the mass balance and energy equations along the individual streamlines, accounting for the compressibility effects. At the end of each global time step, we account for the nonadvective terms on the Eulerian grid along with gravity using operator splitting. We test our streamline simulator and compare the results with a commercial thermal simulator. Sensitivity studies for compressibility, gravity and thermal conduction effects are presented. We further extended our thermal streamline simulation to steam flooding. Steam flooding exhibits large volume changes and compressibility associated with the phase behavior of steam, strong gravity segregation and override, and highly coupled energy and mass transport. To overcome these challenges we implement a novel pressure update along the streamlines, a Glowinski scheme operator splitting and a preliminary streamline/finite volume hybrid approach. We tested our streamline simulator on a series of test cases. We compared our thermal streamline results with those computed by a commercial thermal simulator for both accuracy and efficiency. For the cases investigated, we are able to retain solution accuracy, while reducing computational cost and gaining connectivity information from the streamlines. These aspects are useful for reservoir engineering purposes. In traditional thermal reactive reservoir simulation, mass and energy balance equations are solved numerically on discretized reservoir grid blocks. The reaction terms are calculated through Arrhenius kinetics using cell-averaged properties, such as averaged temperature and reactant concentrations. For the in-situ combustion process, the chemical reaction front is physically very narrow, typically a

few inches thick. To capture accurately this front, centimeter-sized grids are required that are orders of magnitude smaller than the affordable grid block sizes for full field reservoir models. To solve this grid size effect problem, we propose a new method based on a non-Arrhenius reaction upscaling approach. We do not resolve the combustion front on the grid, but instead use a subgrid-scale model that captures the overall effects of the combustion reactions on flow and transport, i.e. the amount of heat released, the amount of oil burned and the reaction products generated. The subgrid-scale model is calibrated using fine-scale highly accurate numerical simulation and laboratory experiments. This approach significantly improves the computational speed of in-situ combustion simulation as compared to traditional methods. We propose the detailed procedures to implement this methodology in a field-scale simulator. Test cases illustrate the solution consistency when scaling up the grid sizes in multidimensional heterogeneous problems. The methodology is also applicable to other subsurface reactive flow modeling problems with fast chemical reactions and sharp fronts. Displacement front stability is a major concern in the design of all the enhanced oil recovery processes. Historically, premature combustion front break through has been an issue for field operations of in-situ combustion. In this work, we perform detailed analysis based on both analytical methods and numerical simulation. We identify the different flow regimes and several driving fronts in a typical 1D ISC process. For the ISC process in a conventional mobile heavy oil reservoir, we identify the most critical front as the front of steam plateau driving the cold oil bank. We discuss the five main contributors for this front stability/instability: viscous force, condensation, heat conduction, coke plugging and gravity. Detailed numerical tests are performed to test and rank the relative importance of all these different effects.

Carbon Dioxide Chemistry, Capture and Oil Recovery Iyad Karamé, Janah Shaya, Hassan Srour, 2018-08-16 Fossil fuels still need to meet the growing demand of global economic development, yet they are often considered as one of the main sources of the CO₂ release in the atmosphere. CO₂, which is the primary greenhouse gas (GHG), is periodically exchanged among the land surface, ocean, and atmosphere where various creatures absorb and produce it daily. However, the balanced processes of producing and consuming the CO₂ by nature are unfortunately faced by the anthropogenic release of CO₂. Decreasing the emissions of these greenhouse gases is becoming more urgent. Therefore, carbon sequestration and storage (CSS) of CO₂, its utilization in oil recovery, as well as its conversion into fuels and chemicals emerge as active options and potential strategies to mitigate CO₂ emissions and climate change, energy crises, and challenges in the storage of energy.

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.

To Interpret the Earth Stanley A. Schumm, 1998-07-30 A concise and imaginative discussion of the scientific approach to problems within the earth sciences for students and researchers.

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