
Water-Soluble Polymers for Petroleum Recovery

G. A. Stahl and D. N. Schulz

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Qiwei Wang



Water Soluble Polymers For Petroleum Recovery:

Water-Soluble Polymers for Petroleum Recovery G.A. Stahl,D.N. Schulz,2012-12-06 We both found ourselves working on water soluble polymers for oil recovery in the early 1980 s Our previ ous backgrounds i nvo l ved the synthesi sand characteri zati on of hydrocarbon polymers for everythi ng from elastomers to plastics As such we were largely unprepared for the special difficulties associated with water soluble polymers in genera l and thei r use in enhanced oi l recovery EOR in parti cul ar Oil patch applications have a jargon and technical heritage quite apart from that usually experienced by traditional polymer scientists At that time no books were available to help us get up to speed in the polymers for oil recovery field Since then there have been a number of symposia on this topic but still few books especially from the polymer rather than the field applications perspective Synthetic water soluble swellable polymers have commercial importance in such application as water treatment cosmetics and foods Yet these polymers have not received the scientific technological attention they deserve The application of water soluble polymers to oil recovery has in fact highlighted the need for new water based materials and a fundamental understanding of their structure and use Interest has been spurred not only for the potenti a l economi c credi ts from enhanced oi l recovery and an augmented polymers business but also by the challenge of designing water soluble polymers for harsh environments

Water Soluble Polymers for Petroleum Recovery GA Stahl (ed),1988 **Water Soluble Polymers for Petroleum Recovery** G.A. Stahl (ed), **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 compliments 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

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.

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.

Principles of Enhanced Oil Recovery Caili Dai, Qing You, Mingwei Zhao, Guang Zhao, Fulin Zhao, 2023-05-11 This book presents the latest progress in enhanced oil recovery technology and introduces the application of various enhanced oil recovery methods in oilfield development. Enhanced oil recovery EOR is a continuous theme in oilfield development. Due to the influence of geological conditions development mode and physical and chemical factors more than half of the proven oil reserves remain underground and cannot be accessed. Therefore many enhanced oil recovery methods have been developed to achieve higher oil recovery. This book presents the basic principles and provides the chemistry knowledge related to

enhanced oil recovery It also expounds the applicable criteria of chemical agents In addition combined with field application examples the limitations of existing enhanced oil recovery methods are analyzed and the future development direction of enhanced oil recovery technology is highlighted It is worth noting that the integral profile control and water shutoff technology in this book is widely recognized in the enhanced oil recovery industry and has achieved remarkable economic benefits Given its scope this book is useful for the scientific and technical personnel engaged in the study of oil recovery chemistry and enhanced oil recovery and also as a teaching reference for teachers and students majoring in petroleum engineering and oilfield chemistry

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

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

Concise Polymeric Materials Encyclopedia Joseph C. Salamone,1998-08-28 Concise Polymeric Materials Encyclopedia culls the most used widely applicable articles from the Polymeric Materials Encyclopedia more than 1 100 and presents them to you in a condensed well ordered format Featuring contributions from more than 1 800 scientists from all over the world the book discusses a vast array of subjects related to the synthesis properties and applications of polymeric materials development of modern catalysts in preparing new or modified polymers modification of existing polymers by chemical and physical processes biologically oriented polymers This comprehensive easy to use resource on modern polymeric materials serves as an invaluable addition to reference collections in the polymer field

Essentials of Polymer Flooding Technique Antoine Thomas,2019-03-14 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

Emerging Trends in Synthesis and

Catalysis in Chemistry Sunita Rattan, Bhuvanesh Gupta, Christine Jeyaseelan, Anita Gupta, 2024-09-23 This book presents the select papers from the International Symposium on Emerging Trends in Synthesis and Catalysis ETSC 2023 It covers the latest trends in novel synthesis strategies and highly efficient heterogeneous homogeneous catalytic chemical species Various topics covered in this book are green synthesis reaction designs catalyst synthesis advanced materials for organic synthesis polymer synthesis stereoselective synthesis flow chemistry bio catalysis organo catalysis catalysis for sustainable development and industrial processes multiphase catalysis separation science and process development organometallic compounds in synthesis and catalysis computational tools for synthetic processes and processes for environment sustainability The book is useful for researchers academicians and industrialists working in material science and industrial chemistry

Progress in Pacific Polymer Science 2 Y. Imanishi, 2012-12-06 Keynote and lectures from invited speakers given at the Second Pacific Polymer Conference in Otsu Japan are collected in this book Eminent Polymer Scientists from both academic and industrial fields around the Pacific Basin contributed on the following topics Polymer Synthesis and Reactions Polymer Characterization Structure Property Relationships High Performance Polymers Bio Related Polymers With contributions by H R Allcock R G Davidson T Inoue Y H Kim E A McCullough J E McGrath G F Meijs T Nishi Y Nishida I Noda R M Nowak M Okamoto R E Prudhomme J P Riggs D N Schulz D H Solomon J Sunamoto M Takayanagi et al

Enhanced Oil Recovery, 1981-01-01 Enhanced Oil Recovery **Recovery Improvement** Qiwei Wang, 2022-09-06 Oil and Gas Chemistry Management Series brings an all inclusive suite of tools to cover all the sectors of oil and gas chemicals from drilling completion to production processing storage and transportation The third reference in the series Recovery Improvement delivers the critical chemical basics while also covering the latest research developments and practical solutions Organized by the type of enhanced recovery approaches this volume facilitates engineers to fully understand underlying theories potential challenges practical problems and keys for successful deployment In addition to the chemical gas and thermal methods this reference volume also includes low salinity smart water microorganism and nanofluid based recovery enhancement and chemical solutions for conformance control and water shutoff in near wellbore and deep in the reservoir Supported by a list of contributing experts from both academia and industry this book provides a necessary reference to bridge petroleum chemistry operations from theory into more cost efficient and sustainable practical applications Covers background information and practical guidelines for various recovery enhancement domains including chapters on enhanced oil recovery in unconventional reservoirs and carbon sequestration in CO₂ gas flooding for more environment friendly and more sustainable initiatives Provides effective solutions to control chemistry related issues and mitigation strategies for potential challenges from an industry list of experts and contributors Delivers both up to date research developments and practical applications featuring various case studies

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

The Essential Handbook of Polymer Terms and Attributes Munmaya K Mishra,Biao Duan,2024-07-30 The Essential Handbook of Polymer Terms and Attributes not only acts as an encyclopaedia of polymer science but also fosters an appreciation for the significance of polymers in fields including materials science chemistry engineering and medicine This book serves as an excellent reference book covering every possible term and attribution associated with the vast and diverse field of polymers This comprehensive volume serves as a vital resource for researchers working in industry and academia offering a clear and concise exploration of polymer science with the most essential reference data available Each polymer term is defined in a straightforward manner ensuring that readers of all levels can grasp the concepts The book goes beyond mere definitions providing context and insights into the applications properties and synthesis Bringing polymer terms and attributes together in one place the book provides a broad knowledge of polymer science and facilitates idea generation for researchers and students embarking on projects related to a specific field of polymer science Key features This book covers all possible terms associated with the field of polymers and related areas granting readers a comprehensive understanding of the entire spectrum of polymers The organization of the book follows an alphabetical format enabling quick and convenient access to specific terms Each polymer term is clearly defined with a figure or scheme as needed allowing readers to visualize the structures processes and applications involved This book is written for science students chemists polymer scientists chemical engineers pharmaceutical scientists biomedical scientists biotechnologists product formulators materials scientists and scientists working on polymers

Contracts for Field Projects and Supporting Research on Enhanced Oil Recovery and Improved Drilling Technology ,1982

Energy Research Abstracts ,1991

Water-soluble Polymers Norbert M. Bikales,1973

Reviewing **Water Soluble Polymers For Petroleum Recovery**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Water Soluble Polymers For Petroleum Recovery**," an enthralling opus penned by a highly acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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