
Water-Soluble Polymers for Petroleum Recovery

G. A. Stahl and D. N. Schulz

Water Soluble Polymers For Petroleum Recovery

W. Littmann



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 1980s. Our previous backgrounds involved the synthesis and characterization of hydrocarbon polymers for everything from elastomers to plastics. As such we were largely unprepared for the special difficulties associated with water soluble polymers in general and their use in enhanced oil recovery EOR in particular. 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 potential economic credits from enhanced oil 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 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.

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

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dicapai pada usia kehamilan 20 minggu atau berat janin 500 gram varney 2006 2 1 2 klasifikasi menurut varney 2006 istilah paritas dibagi menjadi tiga macam antara lain a

klasifikasi usia kehamilan oldcove com - Dec 30 2021

perkembangan ibu dan janin pada tiap trimester - May 15 2023

2 klasifikasi usia kehamilan menurut karjatin 2016 kehamilan dibagi menjadi tiga yaitu a trimester kesatu dimulai dari 0

sampai 12 minggu kehamilan b trimester kedua dimulai dari

ii tinjauan pustaka 2 1 paritas universitas lampung - Jan 31 2022

oct 20 2023 saat bayi memasuki usia 6 bulan ia harus diberikan makanan pendamping asi atau mpasi ya moms mpasi yang bergizi penting untuk memenuhi kebutuhan nutrisi harian

bab ii tinjauan pustaka a 1 definisi kehamilan poltekkes - Mar 13 2023

oct 7 2023 foto pusing saat hamil shutterstock com selain melihat tabel usia kehamilan tersebut ada cara cara lain yang bisa dilakukan 1 menghitung periode menstruasi terakhir

berapa batas usia ideal hamil simak penelitian berikut ini - Oct 08 2022

1 menggunakan kalkulator kehamilan online kalkulator kehamilan online akan mudah untuk digunakan dan diakses oleh banyak orang untuk sekedar mengetahui usia kehamilan kamu

apa perbedaan kehamilan pada usia 20 30 dan 40 tahun - Aug 06 2022

dalam generasi yang solid dikatakan bahwa usia baik baik saja untuk kehamilan dan persalinan pada usia 20 tahun hingga 30 tahun meskipun kematian dalam persalinan dikatakan berada

bab ii tinjauan pustaka a usia kehamilan 1 klasifikasi - Nov 09 2022

may 26 2018 rp 79 500 boleh dibilang pada usia 30 35 tahun merupakan masa masa transisi kehamilan pada usia ini harus dijaga dengan baik pastikan kondisi tubuh dan

bab ii tinjauan pustaka 2 1 konsep dasar kehamilan - Jun 16 2023

buku kia hal 28 c hindari menyentuh mata hidung dan mulut dengan tangan yang belum dicuci d sebisa mungkin hindari kontak dengan orang yang sedang sakit pedoman bagi ibu

cara menghitung tabel usia kehamilan dan lingkaran perut - Dec 10 2022

fertilisasi sampai kelahiran bayi kehamilan normal biasanya berlangsung dalam waktu 40 minggu usia kehamilan tersebut dibagi menjadi 3 trimester yang masing masing

bab ii tinjauan pustaka 2 1 definisi berat bayi lahir - Mar 01 2022

sep 29 2022 berdasarkan 167 responden didapatkan hasil usia ibu hamil tidak beresiko 20 35 tahun sebanyak 101 orang 60 5 paritas 2 anak sebanyak 104 orang 62 3 jarak

kehamilan tanda pembuahan dan perkembangan - Jan 11 2023

usia 21 35 tahun adalah masa di mana ibu hamil memiliki risiko kesehatan paling rendah secara umum masa masa ini disebut sebagai waktu ideal untuk hamil dan melahirkan bagi

cara menghitung usia kehamilan dengan benar okadoc - Jul 05 2022

hidup di luar kandungan dengan berat badan kurang dari 1000 gram atau usia kehamilan kurang dari 28 minggu manuaba

2010 dapat disimpulkan bahwa abortus adalah

bab ii tinjauan pustaka poltekkes bandung - Jul 17 2023

7 bab ii tinjauan pustaka 2 1 konsep dasar kehamilan 2 1 1 pengertian kehamilan kehamilan adalah suatu masa yang dimulai dari konsepsi sampai lahirnya janin lamanya

bab ii tinjauan pustaka a konsep dasar kehamilan 1 - Jun 04 2022

1 bayi prematur preterm kurang bulan usia kehamilan kurang dari 37 minggu 259 hari 2 bayi cukup bulan aterm usia kehamilan antara 37 dan 42 minggu 259 293 hari 3 bayi

bab ii tinjauan pustaka 2 1 kehamilan 2 1 1 definisi - Sep 07 2022

hari 40 minggu dan tidak lebih dari 300 hari 43 minggu pembagian kehamilan dibagi dalam 3 trimester trimester i dimulai dari konsepsi sampai tiga bulan 0 12 minggu trimester ii