

CHEMISTRY IN THE OIL INDUSTRY V

Recent Advances in Oilfield
Chemistry

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Recent Advances In Oilfield Chemistry

James G. Speight, M. R. Islam



Recent Advances In Oilfield Chemistry:

Recent Advances in Oilfield Chemistry P. H. Ogden, 1994 This book looks at the developing market for oilfield chemicals estimated to be worth around 100 million a year in the North Sea alone and ten times this elsewhere It examines the increasing need for the combined efforts of chemists and petroleum engineers major oil producers and service companies to exploit oil reserves more effectively with particular reference to environmental pressures Recent Advances in Oilfield Chemistry addresses developments in the technology of oil well drilling crude oil extraction and transportation to the refinery It makes particular reference to increasing environmental pressures and the need to locate and access deeper oil reserves in hostile environments Graduates in chemical engineering environmental and industrial chemistry and workers in the industry itself will find Recent Advances in Oilfield Chemistry full of useful topical information fostering a broader understanding of the issues affecting oil exploration and exploitation today

Challenges and Recent Advances in Sustainable Oil and Gas Recovery and Transportation Sanket Joshi, Prashant Jadhawar, Asheesh Kumar, 2023-03-10 Challenges and Recent Advances in Sustainable Oil and Gas Recovery and Transportation delivers a critical tool for today's petroleum and reservoir engineers to learn the latest research in EOR and solutions toward more SDG supported practices Packed with methods and case studies the reference starts with the latest advances such as EOR with polymers and EOR with CCS Advances in shale recovery and methane production are also covered before layering on sustainability methods on critical topics such as oilfield produced water Supported by a diverse group of contributors this book gives engineers a go to source for the future of oil and gas The oil and gas industry are utilizing enhanced oil recovery EOR methods frequently but the industry is also tasked with making more sustainable decisions in their future operations Provides the latest advances in enhanced oil recovery EOR including EOR with polymers EOR with carbon capture and sequestration CCS and hybrid EOR approaches Teaches options in recovery and transport such as shale recovery and methane production from gas hydrate reservoirs Includes sustainability methods such as biological souring and oil field produced water solutions

Ionic Liquids - Recent Advances Pradip K. Bhowmik, 2025-03-19 Ionic liquids ILs are composed of various cations and anions They can be used in many applications in many science and technology disciplines since they exhibit unique properties They hold promise as engineered materials in many fields including green solvents catalysts for chemical reactions separation sciences biocatalysts biopolymers processing active pharmaceutical ingredients drug delivery electrolytes for batteries and supercapacitors and even for solid state batteries Additionally they can be used as additives in solar cells including perovskite solar cells enhancing power conversion efficiency and stability Recent developments in different aspects of ILs including physical properties molecular dynamic simulations ionic conductivities active pharmaceutical ingredients and lubricants are discussed in this book

Petroleum Engineer's Guide to Oil Field Chemicals and Fluids Johannes Fink, 2011-05-13 Petroleum Engineer's Guide to Oil Field Chemicals and Fluids is a comprehensive manual that provides end users with information about oil field chemicals such as

drilling muds corrosion and scale inhibitors gelling agents and bacterial control This book is an extension and update of Oil Field Chemicals published in 2003 and it presents a compilation of materials from literature and patents arranged according to applications and the way a typical job is practiced The text is composed of 23 chapters that cover oil field chemicals arranged according to their use Each chapter follows a uniform template starting with a brief overview of the chemical followed by reviews monomers polymerization and fabrication The different aspects of application including safety and environmental impacts for each chemical are also discussed throughout the chapters The text also includes handy indices for trade names acronyms and chemicals Petroleum production drilling completion and operations engineers and managers will find this book invaluable for project management and production Non experts and students in petroleum engineering will also find this reference useful Chemicals are ordered by use including drilling muds corrosion inhibitors and bacteria control Includes cutting edge chemicals and polymers such as water soluble polymers and viscosity control Handy index of chemical substances as well as a general chemical index Oilfield Chemistry and its Environmental Impact Henry A.

Craddock,2018-05-14 Consolidates the many different chemistries being employed to provide environmentally acceptable products through the upstream oil and gas industry This book discusses the development and application of green chemistry in the oil and gas exploration and production industry over the last 25 years bringing together the various chemistries that are utilised for creating suitable environmental products Written by a highly respected consultant to the oil and gas industry it introduces readers to the principles and development of green chemistry in general and the regulatory framework specific to the oil and gas sector in the North Sea area and elsewhere in the world It also explores economic drivers pertaining to the application of green chemistry in the sector Topics covered in Oilfield Chemistry and its Environmental Impact include polymer chemistry surfactants and amphiphiles phosphorus chemistry inorganic salts low molecular weight organics silicon chemistry and green solvents It also looks at sustainability in an extractive industry examining the approaches used and the other methodologies that could be applied in the development of better chemistries along with discussions about where the application of green chemistry is leading in this industry sector Provides the reader with a ready source of reference when considering what chemistries are appropriate for application to oilfield problems and looking for green chemistry solutions Brings together the pertinent regulations which workers in the field will find useful alongside the chemistries which meet the regulatory requirements Written by a well known specialist with a combined knowledge of chemistry manufacturing procedures and environmental issues Oilfield Chemistry and its Environmental Impact is an excellent book for oil and gas industry professionals as well as scientists academic researchers students and policy makers Production Chemicals for the Oil and Gas Industry, Second Edition Malcolm A. Kelland,2014-03-13 Production chemistry issues result from changes in well stream fluids both liquid and gaseous during processing Since crude oil production is characterized by variable production rates and unpredictable changes to the nature of the produced fluids it is essential for production chemists to

have a range of chemical additives available for rectifying issues that would not otherwise be fully resolved Modern production methods the need to upgrade crude oils of variable quality and environmental constraints demand chemical solutions Thus oilfield production chemicals are necessary to overcome or minimize the effects of the production chemistry problems Production Chemicals for the Oil and Gas Industry Second Edition discusses a wide variety of production chemicals used by the oil and gas industry for down hole and topside applications both onshore and offshore Incorporating the large amount of research and applications since the first edition this new edition reviews all past and present classes of production chemicals providing numerous difficult to obtain references especially SPE papers and patents Unlike other texts that focus on how products perform in the field this book focuses on the specific structures of chemicals that are known to deliver the required or desired performance information that is very useful for research and development Each updated chapter begins by introducing a problem such as scale or corrosion for which there is a production chemical The author then briefly discusses all chemical and nonchemical methods to treat the problem and provides in depth descriptions of the structural classes of relevant production chemicals He also mentions when available the environmental properties of chemicals and whether the chemical or technique has been successfully used in the field This edition includes two new chapters and nearly 50 percent more references

Recent Advances in Geo-Environmental Engineering, Geomechanics and Geotechnics, and Geohazards Amjad Kallel,Zeynal Abiddin Erguler,Zhen-Dong Cui,ALi Karrech,Murat Karakus,Pinnaduwa Kulatilake,Sanjay Kumar Shukla,2018-12-31 This edited volume contains the best papers in the geo engineering field accepted for presentation at the 1st Springer Conference of the Arabian Journal of Geosciences Tunisia 2018 In addition it includes 3 keynotes by international experts on the following topics 1 A new three dimensional rock mass strength criterion 2 New tools and techniques of remote sensing for geologic hazard assessment 3 Land subsidence induced by the engineering environmental effects in Shanghai China The book is useful for readers who would like to get a broad coverage in geo engineering It contains 11 chapters covering the following main areas a Applications in geo environmental engineering including soil remediation b Characterization of geo materials using geological geotechnical and geophysical techniques c Soil improvement applications d Soil behaviour under dynamic loading e Recent studies on expansive soils f Analytical and numerical modelling of various geo structures g Slope stability h Landslides i Subsidence studies and j Recent studies on various other types of geo hazards

Recent Advances in Mechanics of Non-Newtonian Fluids Wei-Tao Wu,Mehrdad Massoudi,2020-02-21 Non Newtonian non linear fluids are common in nature for example in mud and honey but also in many chemical biological food pharmaceutical and personal care processing industries This Special Issue of Fluids is dedicated to the recent advances in the mathematical and physical modeling of non linear fluids with industrial applications especially those concerned with CFD studies These fluids include traditional non Newtonian fluid models electro or magneto rheological fluids granular materials slurries drilling fluids polymers blood and other biofluids mixtures of fluids and particles

etc **Microbial Enhancement of Oil Recovery - Recent Advances** E.C. Donaldson,1991-04-03 This conference was instituted to examine field activities in Microbial Enhancement of Oil Recovery The U S Department of Energy has sponsored several field projects and the details from some of these were presented as well as a few from industry The balance of the program was concerned with new developments in research Today s oil production technology leaves one third to one half of the original oil in place in the reservoir at abandonment of secondary recovery waterflooding This leaves a very large target for microbial enhanced oil recovery which was shown by the research papers of this conference to be capable of producing up to 50% of the residual oil The field trials show that the normal projected oil production decline curve can be reversed or leveled off by microbial enhancement of oil recovery This conference has shown that a variety of applications are possible to correct oilfield problems as well as to enhance oil recovery Among these is the suppression of hydrogen sulfide production which alone is a tremendous advance because of the large quantity of sour oil production If hydrogen sulfide production can be curtailed it would increase the value of the produced oil decrease its toxicity and largely decrease its corrosiveness All of these would be welcome both in the field and at the petroleum refinery where special precautions must be taken to process sour crude oil Another very important discovery is the ability of certain bacteria to eliminate paraffin deposition around the producing well and in the tubulars This is a welcome improvement for many producers who have considerable difficulty in controlling paraffin deposition *Recent Advances in Enhanced Oil and Gas Recovery* István Lakatos,2001 **Innovations**

in Enhanced and Improved Oil Recovery - New Advances Mansoor Zoveidavianpoor,2024-04-24 This book navigates the evolving landscape of Enhanced Oil Recovery EOR and Improved Oil Recovery IOR covering diverse topics such as lithological dynamics in CO₂ EOR the impact of asphaltene precipitation in WAG implementation progress in CO₂ EOR and storage technology in situ foam generation for unconventional fractured reservoirs electromagnetic radiation effects on heavy oil upgrading advancements in hydraulic fracturing in situ synthesis of nanoparticles and operational insights in the Bakken Shale This comprehensive volume serves as an indispensable resource for professionals and researchers in the ever changing field of enhanced and improved oil recovery **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

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

Gas Engineering James G. Speight, 2021-09-20 Volume 1 deals with the origins of process gases and describes recovery properties and composition It covers as well the shale gas the production from hydrocarbon rich deep shale formations being one of the most quickly expanding trends in onshore domestic gas exploration Vol 2 Composition and Processing of Gas Streams Vol 3 Uses of Gas and Effects

Production Chemicals for the Oil and Gas Industry Malcolm A. Kelland, 2016-04-19 Modern production methods and environmental constraints demand chemical solutions And as oilfields age the need for chemicals to ensure steady production increases Production Chemicals for the Oil and Gas Industry describes classes of production chemicals for use topside and downhole in the upstream oil and gas industry It includes coverage of

Modern Aspects of Colloidal Dispersions Ronald H. Ottewill, Adrian R. Rennie, 2012-12-06 This book contains the papers presented at a meeting sponsored by the Colloid and Interface Science Group of the Faraday Division Royal Society of Chemistry which was held at Wills Hall University of Bristol from the 14th 16th April 1997 The purpose of the meeting which was entitled Colloidal Dispersions was to discuss the subject of

concentrated colloidal systems including dispersions emulsions and powders in order to emphasize recent advances in experimental and theoretical understanding of these systems and how these advances could be applied to practical utilisation in the wide range of industries which are involved with colloidal systems The papers presented at the meeting were given by the principal participants in a 5 year project on Colloid Technology which started on the 1st August 1992 and was funded by the Department of Trade and Industry DTI of the U K and a consortium of industries which was composed of ICI Schlumberger Unilever and Zeneca The academic centres involved were the Universities of Bristol Cambridge Edinburgh and Imperial College London Each of the papers published in this volume formed the focus for a discussion on that topic so that each subject was discussed in so me depth by the participants J ean Proctor and Meg Staff have been tremendously helpful as secretaries at Bristol and Cambridge respectively throughout the project Also their help with the various meetings and with the production of this volume was invaluable We thank them most warmly for their very able assistance

Deep Shale Oil and Gas James G. Speight, 2016-09-10 Natural gas and crude oil production from hydrocarbon rich deep shale formations is one of the most quickly expanding trends in domestic oil and gas exploration Vast new natural gas and oil resources are being discovered every year across North America and one of those new resources comes from the development of deep shale formations typically located many thousands of feet below the surface of the Earth in tight low permeability formations Deep Shale Oil and Gas provides an introduction to shale gas resources as well as offer a basic understanding of the geomechanical properties of shale the need for hydraulic fracturing and an indication of shale gas processing The book also examines the issues regarding the nature of shale gas development the potential environmental impacts and the ability of the current regulatory structure to deal with these issues Deep Shale Oil and Gas delivers a useful reference that today s petroleum and natural gas engineer can use to make informed decisions about meeting and managing the challenges they may face in the development of these resources Clarifies all the basic information needed to quickly understand today s deeper shale oil and gas industry horizontal drilling fracture fluids chemicals needed and completions Addresses critical coverage on water treatment in shale and important and evolving technology Practical handbook with real world case shale plays discussed especially the up and coming deeper areas of shale development

Shale Oil and Gas Production Processes James G. Speight, 2019-11-18 Shale Oil and Gas Production Processes delivers the basics on current production technologies and the processing and refining of shale oil Starting with the potential of formations and then proceeding to production and completion this foundational resource also dives into the chemical and physical nature of the precursor of oil shale kerogen to help users understand and optimize its properties in shale Rounding out with reporting in situ retorting refining and environmental aspects this book gives engineers and managers a strong starting point on how to manage the challenges and processes necessary for the further development of these complex resources Helps readers grasp current research on production from shale formations including properties and composition Fill in the gaps between research and practical

application including discussions of existing literature Includes a glossary to help readers fully understand key concepts

Enhanced Recovery Methods for Heavy Oil and Tar Sands James G. Speight, 2013-11-25 Recent oil price fluctuations continue to stress the need for more efficient recovery of heavy oil and tar sand bitumen resources With conventional production steadily declining advances in enhanced recovery will be required so that oil production can be extended and reservoirs last longer A practical guide on heavy oil related recovery methods is essential for all involved in heavy oil production To feed this demand James Speight a well respected scientist and author provides a must read for all scientists engineers and technologists that are involved in production enhancement In *Enhanced Recovery Methods for Heavy Oil and Tar Sands* Speight provides the current methods of recovery for heavy oil and tar sand bitumen technology broken down by thermal and non thermal methods An engineer graduate student or professional working with heavy oil upcoming and current will greatly benefit from this much needed text

Peak Energy James G. Speight, M. R. Islam, 2018-03-27 Does the Earth contain enough oil to provide energy for the human race indefinitely If not how long will the oil last What about renewable energy technologies like wind and solar Will they be able to supply an indefinite supply of energy for the human race If not how long will it last And what role does overpopulation play in our world's energy supply Even with multiple forms of energy available how long will it last as long as more and more humans and therefore more industries and energy consumption are added Taking a long held theory called Peak Oil Theory the authors of this groundbreaking new text examine the theory of Peak Energy to examine all of these questions Crude oil and natural gas are the major sources of fuel used to supply energy for various needs Users of crude oil and natural gas must take into account that these energy sources are without doubt non renewable depleting resources and the cost of extraction depends not only on the current rate of production but also on the amount of cumulative production In fact many pundits believe projections that the world is rapidly approaching a precipice after which crude oil and natural gas will no longer be in ready supply This phenomenon has given rise to the peak oil theory peak oil is the point in time when the maximum rate of petroleum recovery from the reservoir is reached after which the rate of petroleum production enters terminal decline From this concept has emerged the wider concept of the peak energy theory which as it is related to the availability of all fossil fuels is also subject to decline with fossil fuel use This text written by two of the world's most well known respected and prolific writers in the energy industry is a fascinating study of our world's energy needs and the future of the multi source energy supply on this planet Whether oil and gas wind solar geothermal or even nuclear all sources of energy have their limits and we as scientists engineers and consumers of energy need to be knowledgeable on these topics This book is a must have for any engineer student scientist or even layperson interested in energy and the idea of energy sustainability on planet Earth

Unveiling the Energy of Verbal Beauty: An Emotional Sojourn through **Recent Advances In Oilfield Chemistry**

In some sort of inundated with displays and the cacophony of fast connection, the profound energy and mental resonance of verbal art usually disappear in to obscurity, eclipsed by the regular barrage of noise and distractions. However, located within the musical pages of **Recent Advances In Oilfield Chemistry**, a charming perform of literary splendor that impulses with organic emotions, lies an unforgettable journey waiting to be embarked upon. Composed with a virtuoso wordsmith, this enchanting opus courses visitors on a mental odyssey, delicately revealing the latent possible and profound affect stuck within the delicate internet of language. Within the heart-wrenching expanse with this evocative examination, we can embark upon an introspective exploration of the book is key themes, dissect its charming publishing type, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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