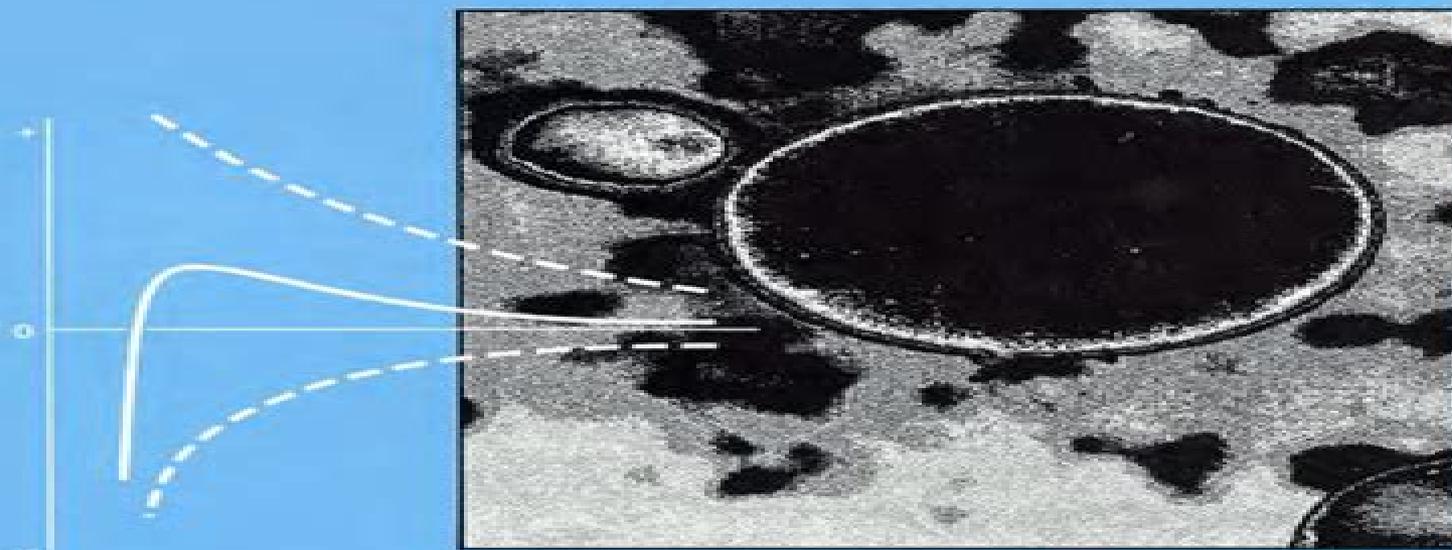


Advances in Chemistry Series 231



# Emulsions

**Fundamentals and Applications  
in the Petroleum Industry**

EDITED BY  
**Laurier L. Schramm**

# Emulsions Fundamentals And Applications In The Petroleum Industry

**Laurier Lincoln Schramm**



## **Emulsions Fundamentals And Applications In The Petroleum Industry:**

*Emulsions* Laurier Lincoln Schramm,1992 Based on a Short Course sponsored by Canada s Petroleum Recovery Institute The first book to focus on the occurrence of emulsions in the petroleum industry Brings together contributions from a wide range of experts Provides an up to date examination of the nature occurrence handling formation and breaking of petroleum emulsions Topics covered include emulsion stability characterization techniques rheology of emulsions and flow properties of emulsions in pipes and porous media well head productions and industrial process streams Using the fundamental concepts and based on commercial and pilot scale experiences Also shows how to approach making desirable emulsions transporting and handling them and how to approach breaking undesirable emulsions

**Emulsions - Fundamentals and Applications in the Petroleum Industry , Based on a short course developed by the editor entitled 'Petroleum Emulsions and Applied Emulsion Technology' and sponsored by the Petroleum Recovery Institute, Calgary, Alberta, Canada, December 1990 ,1992**

Fundamentals and Applications in the Petroleum Industry M. L. L. Schram,1994

**Emulsions, Foams, and Suspensions** Laurier L. Schramm,2006-05-12 Until now colloid science books have either been theoretical or focused on specific types of dispersion or on specific applications This then is the first book to provide an integrated introduction to the nature formation and occurrence stability propagation and uses of the most common types of colloidal dispersion in the process related industries The primary focus is on the applications of the principles paying attention to practical processes and problems This is done both as part of the treatment of the fundamentals where appropriate and also in the separate sections devoted to specific kinds of industries Throughout the treatment is integrated with the principles of colloid and interface science common to each dispersion type presented for each major physical property class followed by separate treatments of features unique to emulsions foams or suspensions The first half of the book introduces the fundamental principles introducing readers to suspension formation and stability characterization and flow properties emphasizing practical aspects throughout The following chapters discuss a wide range of industrial applications and examples serving to emphasize the different methodologies that have been successfully applied Overall the book shows how to approach making emulsions foams and suspensions with different useful properties how to propagate them and how to prevent their formation or destabilize them if necessary The author assumes no prior knowledge of colloid chemistry and with its glossary of key terms complete cross referencing and indexing this is a must have for graduate and professional scientists and engineers who may encounter or use emulsions foams or suspensions or combinations thereof whether in process design industrial production or in related R D fields

Emulsions, Foams, Suspensions, and Aerosols Laurier L. Schramm,2014-08-12 This is the first book to provide an integrated introduction to the nature formation and occurrence stability propagation and uses of the most common types of colloidal dispersion in the process related industries The primary focus is on the applications of the principles paying attention to practical processes and problems This is done both as part of

the treatment of the fundamentals where appropriate and also in the separate sections devoted to specific kinds of industries Throughout the treatment is integrated with the principles of colloid and interface science common to each dispersion type presented for each major physical property class followed by separate treatments of features unique to emulsions foams or suspensions The first half of the book introduces the fundamental principles introducing readers to suspension formation and stability characterization and flow properties emphasizing practical aspects throughout The following chapters discuss a wide range of industrial applications and examples serving to emphasize the different methodologies that have been successfully applied The author assumes no prior knowledge of colloid chemistry and with its glossary of key terms complete cross referencing and indexing this is a must have for graduate and professional scientists and engineers who may encounter or use emulsions foams or suspensions or combinations thereof whether in process design industrial production or in related R D fields

*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

*Petroleum Biotechnology* Rafael Vazquez-Duhalt, Rodolfo Quintero-Ramirez, 2004-09-18 This book is one of a kind in the field of petroleum biorefining and biological upgrade of petroleum it presents a critical review as well as an integrated overview of the potential biochemical processes bridging the gap between academia and industry It addresses today's demanding production challenges taking into account energy efficient and environmentally friendly processes and also looks at the future possibility of implementing new refinery systems Suitable for those practitioners the petroleum industry students and researchers interested in petroleum biotechnology Covers a new application field for biotechnology Looks at innovative processes for the petroleum industry Presents examples of modern environmental processes

*Applications of Ionic Liquids in the Oil Industry: Towards A Sustainable Industry* Rafael Martínez Palou, Natalya V. Likhanova, 2023-01-24 This book is a guide to the application of ionic liquids ILs in the oil industry It includes ten chapters that review basic and advanced topics Starting with a general introduction to IL structure and properties the book comprehensively explains the use of ILs in key petroleum extraction processes such as pollutant removal demulsification crude oil transport and oil recovery Additional applications that are important for the sustainability management of petrochemical operations such as deepwell hydrate inhibition CO<sub>2</sub> capture corrosion engineering catalysis hydrocarbon separation bitumen extraction and stabilization are also included Each chapter also provides bibliographic references for further reading The wide range of topics makes this an informative reference to students and professionals in petroleum engineering chemical engineering programs and any other training course that requires reading material for an understanding of the oil industry General readers and researchers interested in the fascinating chemistry of ionic liquids will also enjoy this book

*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

**Emulsions and Emulsion Stability** Johan Sjoblom, 2005-11-21 Emulsions and Emulsion Stability Second Edition provides comprehensive coverage of both theoretical and practical aspects of emulsions The book presents fundamental concepts and processes in emulsified systems such as flocculation coalescence stability precipitation deposition and the evolution of droplet size distribution The book

*Structures and Dynamics of Asphaltenes* Oliver C. Mullins, Eric Y. Sheu, 2013-11-11 The investigative assault upon the enigmatic asphaltenes has recently resulted in significant advances in many varied disciplines Taken individually each discipline exposes certain facets of asphaltenes but each alone can never reveal asphaltenes from all vantage points Even seemingly narrowly focused issues such as the molecular structures of asphaltenes or the colloidal structures of asphaltenes require a confluence of many lines of investigation to yield an understanding which differs from truth by diminishing uncertainty An holistic treatment of the asphaltenes is a powerful approach to evolve further their understanding For example examination of asphaltenes at the highest resolution yields molecular structure A slight increase in scale probes asphaltene colloidal structure Weaving together asphaltene studies performed at different length scales results in a fabric which envelops an encompassing vision of asphaltenes At the same time the interfaces of these hierarchical studies provide additional constraints on imagination more than investigations at individual length scales alone These considerations shaped the timing format and the content of our book The editors are very appreciative of the diligence and

hard work manifest in each of the contributed chapters herein We thank the contributing authors for making this project a success Oliver C Mullins Eric Y Sheu vii CONTENTS I Asphaltenes Types and Sources      **Crude Oil Emulsions** Manar Abdel-Raouf,2012-03-02 Petroleum black gold is the most important nonrenewable source of energy It is a complex mixture of different phases and components Refining it provides a vast number of organic compounds all of them of which are used to produce petroleum based products for numerous applications from industry to medicine from clothing to food industries We can find petroleum based products all around us This book deals with some important topics related to petroleum such as its chemical composition and stability It is well known that the chemical composition of crude oil differs according to the site of production and its grade varies from waxy to asphaltenic crude Both of them are refined to produce different products The stability of crude oil on aging and transportation is governed by several factors and these factors are included within this book Some new technologies for petroleum characterization are also introduced This book is aimed at researchers chemical engineers and people working within the petroleum industry      **Encyclopedia of Emulsion Technology** Daniel Schuster,2024-11-01 This volume extends the discussions of basic theory and applications featured in volumes 1 3 of this series It includes details on emulsion stability and emulsification an examination on the effect of added polymers on emulsion rheology findings on the role of repulsive forces in aqueous solubility micelle stability micro emulsion formation and phase separation and a model for microemulsions      **Suspensions** Laurier Lincoln Schramm,1996 This book provides an introduction to the nature formation and occurrence stability propagation and uses of suspensions in the petroleum industry Its audience is scientists and engineers who may encounter or apply suspensions whether in process design petroleum production or research and development The primary focus is on the applications of the principles of particle dispersions with attention given to practical processes and problems The book illustrates how to understand make and use desirable suspensions and how to approach destabilizing or preventing the occurrence of undesirable suspensions      *Finely Dispersed Particles* Aleksandar M. Spasic,Jyh-Ping Hsu,2005-10-14 Over the last decade the biggest advances in physical chemistry have come from thinking smaller The leading edge in research pushes closer to the atomic frontier with every passing year Collecting the latest developments in the science and engineering of finely dispersed particles and related systems *Finely Dispersed Particles* Micro Nano a      Essentials of Flow Assurance Solids in Oil and Gas Operations Abdullah Hussein,2022-10-19 Flow assurance solids deposition is one of the main challenges in oil and gas production operations with millions of dollars spent annually on their mitigation *Essentials of Flow Assurance Solids in Oil and Gas Operations* works as an all inclusive reference for engineers and researchers covering all the different types of solids that are commonly encountered in oil and gas fields Structured to flow through real world operations the reference branches through each solid deposit problem where the root causes are as well as modeling monitoring characterization and management strategies all comprehensively reviewed in the light of contemporary research breakthroughs Backed by several field case studies

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*Emulsions and Oil Treating Equipment* Maurice Stewart, Ken Arnold, 2008-12-30 The problem of removing water which is emulsified with produced oil has grown more widespread and often times more difficult as producers attempt to access more difficult reserves This practical guide is designed to help engineers and operators develop a feel for selection sizing and troubleshooting emulsion equipment These skills are of vital importance to ensure low operating costs and to meet crude export quality specifications The book is written for engineers and operators who need advanced knowledge of the numerous techniques and the equipment used to destabilize and resolve petroleum emulsions problems In *Emulsions and Oil Treating Equipment* Selection Sizing and Troubleshooting the author provides engineers and operators with a guide to understanding emulsion theory methods and equipment and practical design of a treating system Comprehensive in its scope the author explains methods such as demulsifiers temperature electrostatics and non traditional methods of modulated or pulsed voltage control as well as equipment such as electrostatic treater dehydrator separator gunbarr heater treater and free water knockout Written in a how to format it brings together hundreds of methods handy formulas diagrams and tables in one convenient book Detailed coverage emulsion equipment and removal methods Tips for selecting sizing and operating emulsion equipment Overview of emulsion theory and factors affecting treatment methods Packed with equipment diagrams worked out calculations covers equipment and removal methods

*Petroleum Engineer's Guide to Oil Field Chemicals and Fluids* Johannes Fink, 2015-08-31 The oil and gas engineer on the job requires knowing all the available oil field chemicals and fluid applications that are applicable to the operation Updated with the newest technology and available products *Petroleum Engineer's Guide to Oil Field Chemicals and Fluids* Second Edition delivers all the necessary lists of chemicals by use their basic components benefits and environmental implications In order to maintain reservoir protection and peak well production performance operators demand to know all the options that are available Instead of searching through various sources *Petroleum Engineer's Guide to Oil Field Chemicals and Fluids* Second Edition presents a one stop non commercialized approach by organizing the products by function matching the chemical to the process for practical problem solving and extending the coverage with additional resources and supportive materials Covering the full spectrum including fluid loss additives drilling muds cement additives and oil spill treating agents this must have reference answers to every oil

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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

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