



Asphaltene Particles in Fossil Fuel Exploration, Recovery, Refining, and Production Processes



**Edited by
Mahendra K. Sharma and Teh Fu Yen**



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James G. Speight



Asphaltene Particles In Fossil Fuel Exploration Recovery Refining And Production Processes:

Asphaltene Particles in Fossil Fuel Exploration, Recovery, Refining, and Production Processes Mahendra K. Sharma, Teh Fu Yen, 2012-12-06 THE CURRENT STATE OF THE ART of several aspects of asphaltene is presented in this volume. It documents the proceedings of the International Symposium on Asphaltene Particles in Fossil Fuel Exploration Recovery Refining and Production Processes sponsored by the Fine Particle Society (FPS). This meeting was held in Las Vegas, Nevada, July 13-17, 1992. The symposium upon which this volume is based was organized in four sessions emphasizing various basic and applied aspects of research on asphaltene technology. Major topics discussed involve surface phenomena of asphaltene, processed and unprocessed bitumen, asphaltene effect on natural and accelerated ageing of bitumens, asphaltene conversion, theoretical aspects of asphaltenes and interactions of asphaltene colloids in organic solvents. This edition includes eighteen selected papers presented at the symposium. These papers are divided in four broad categories: 1. Bitumen and Coal Derived Asphaltenes; 2. Asphalt and Asphaltene conversion; 3. Surface and Colloidal Aspects of Asphaltenes; and 4. Thermodynamic and Molecular Aspects of Asphaltenes. Asphaltenes Maite Subirana, Eric Y. Sheu, 2013-06-29 Asphaltenes have traditionally been viewed as being extremely complex, thus very hard to characterize. In addition, certain fundamental properties of asphaltenes have previously been inaccessible to study by traditional macroscopic methods, further limiting understanding of asphaltenes. These limitations inhibited development of descriptions regarding the microscopic structure and solution dynamics of asphaltenes. However, a variety of more recent studies have implied that asphaltenes share many chemical properties with the smaller, more tractable components of crude oils. Recent measurements have indicated that asphaltene molecular weights are not as large as previously thought, perhaps in the range of 600 to 1,000 amu. In addition, new experimental methods applied to asphaltene chemical structures have been quite revealing, yielding a broad understanding. Consequently, the ability to relate chemical structure with physical and chemical properties can be developed and extended to the understanding of important commercial properties of asphaltenes. This book treats significant new developments in the fundamentals and applications of asphaltenes. In the first section of the book, new experimental methods are described that characterize asphaltene structures from the molecular to colloidal length scale. The colloidal properties are understandable in terms of asphaltene chemical structures, especially with regard to the heteroatom impact on bonding. However, quantitative measurements of the asphaltene self-association still need to be determined. In the second section of the book, the fundamental understanding of asphaltenes is related directly to asphaltene utilization.

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.

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.

[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.

Handbook of Hydraulic Fracturing James G. Speight, 2016-03-14. Presents an up-to-date description of current and new hydraulic fracturing processes. Details Emerging Technologies such as Fracture Treatment Design, Open Hole Fracturing, Screenless Completions, Sand Control, Fracturing Completions, and Productivity. Covers Environmental Impact issues including Geological Disturbance, Chemicals used in Fracturing, General Chemicals, Toxic Chemicals, and Air, Water, Land, and Health impacts. Provides many process diagrams as well as tables of feedstocks and their respective products.

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.

The Desulfurization of Heavy Oils and Residua James G. Speight, 1999-11-05. Second Edition expands and updates information on the technological aspects of refining heavy oils, residua, bitumen, and other high-sulfur feedstocks. Focuses on the range of next-generation refining processes.

The Chemistry and Technology of Petroleum James G.

Speight,2006-10-31 Refineries must not only adapt to evolving environmental regulations for cleaner product specifications and processing but also find ways to meet the increasing demand for petroleum products particularly for liquid fuels and petrochemical feedstocks The Chemistry and Technology of Petroleum Fourth Edition offers a 21st century perspective

Asphaltenes and Asphalts, 2 T.F. Yen,G.V. Chilingarian,2000-08-16 This is the second volume in the series of Asphaltenes and Asphalts Since the publication of the first volume in 1994 there has been a significant advancement in our knowledge Knowledge of both asphaltenes and asphalts is needed by several disciplines and often the progress is dictated by interdisciplinary sciences and technology This includes material sciences fuel sciences chemical engineering civil engineering environmental engineering polymer sciences transportation engineering petroleum engineering chemistry geological sciences physics geochemistry rheology biological sciences tribology soil sciences petroleum science The development in this field is not based on our knowledge of chemistry or petroleum engineering alone as many chemists and petroleum engineers believe In this volume therefore significant contributions from different disciplines have been included

Decoding **Asphaltene Particles In Fossil Fuel Exploration Recovery Refining And Production Processes**: Revealing the Captivating Potential of Verbal Expression

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