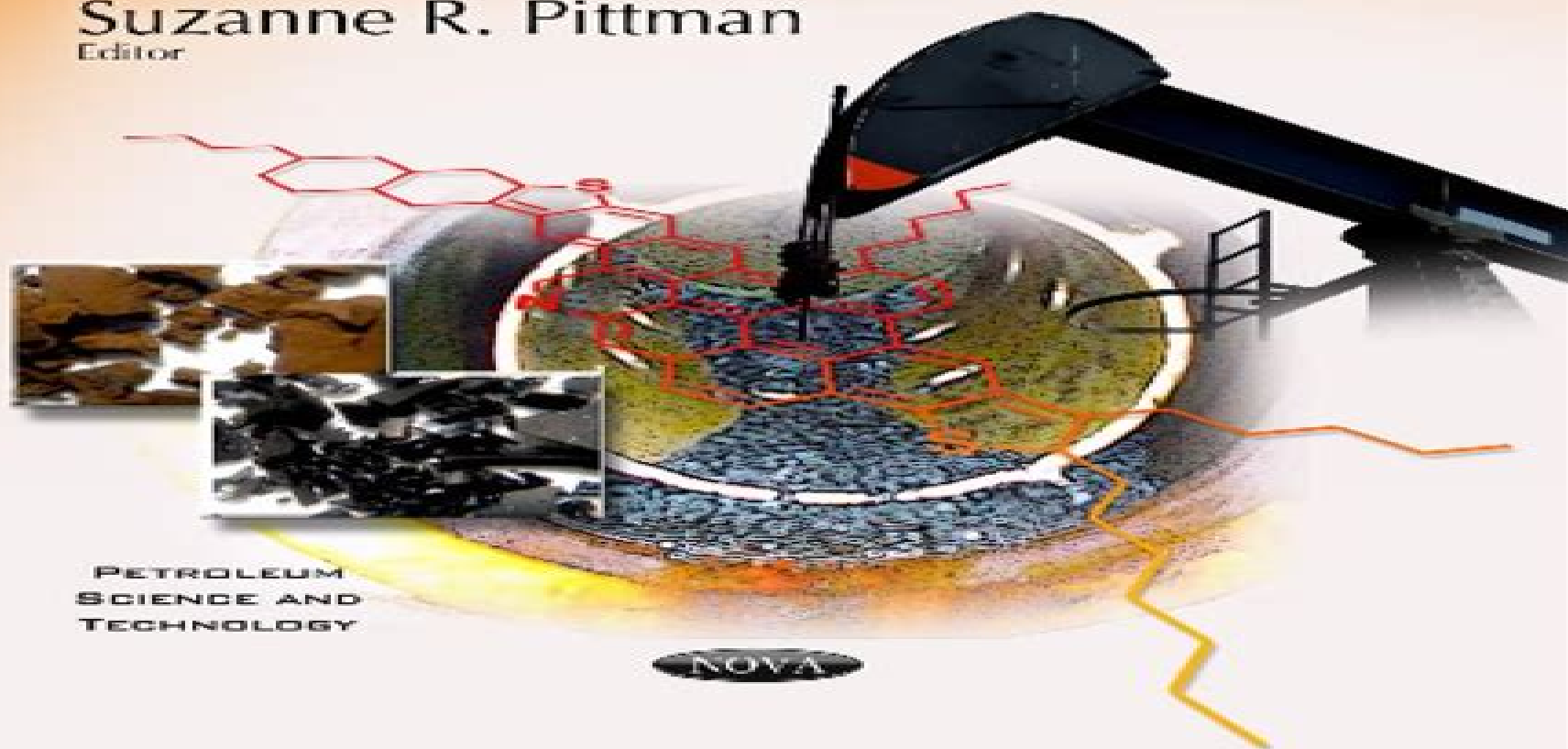


Asphaltenes

Fundamentals, Applications
and Future Developments

Suzanne R. Pittman
Editor



Asphaltenes And Asphalts 2 Part B Developments In Petroleum Science

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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

Heavy Oil Recovery and Upgrading James G. Speight,2019-02-28 Heavy Oil Recovery and Upgrading covers properties factors methods and all current and upcoming processes giving engineers new and experienced the full spectrum of recovery choices including SAGD horizontal well technology and hybrid approaches Moving on to the upgrading and refining of the product the book also includes information on in situ upgrading refining options and hydrogen production Rounding out with environmental effects management methods on refinery waste and the possible future configurations within the refinery this book provides engineers with a single source to make decisions and manage the full range of challenges Presents the properties mechanisms screening criteria and field applications for heavy oil enhanced recovery projects Includes current upgrading options and future methods for refining heavy oil development Fills in the gaps between literature and practical application for everyday industry reference Handbook of Heavy Oil Properties and Analysis James G. Speight,2023-05-12

Handbook of Heavy Oil Properties and Analysis Understand the future of oil production with this comprehensive guide Heavy oil also known as viscous oil is oil too viscous to flow normally from wells and reservoirs In recent decades it has become increasingly important as a source of liquid oil for use in industrial processes This places all the greater importance on proper analysis of heavy oil and its properties so that it can be more effectively refined and deployed to meet ever growing energy needs Handbook of Heavy Oil Properties and Analysis provides a comprehensive introduction to the analysis of viscous oil and its properties It discusses the full range of tests and analytical procedures by which the behavior and refinability of viscous oil samples can be predicted and connects theoretical knowledge to refinery practice throughout Additionally its incorporation of the latest environmental regulations makes it an invaluable resource Readers will also find Detailed coverage of both physical properties and chemical composition of heavy oil An author more than fifty years of experience in the process industries Discussion of new methods for determining instability and incompatibility This book is a useful reference for scientists and engineers in the oil refining industries chemists and researchers in heavy oil and adjacent industries and government officials and regulators Asphaltenes and Asphalts, 1 G.V. Chilingarian,T.F. Yen,1994-09-08

This is the first volume of a two volume set of critical reviews of many aspects of both asphaltenes and asphalts and their interrelationship. Asphaltene is invariably present in asphalt or bitumen and other fossil fuel derived liquids such as coal tar, coal liquefaction products, pyrolyzed shale oil from oil shales, source rock extracts and numerous naturally occurring bituminous substances. The latter include asphaltites, asphaltoids, waxes and carbonaceous deposits containing a composition of petroleum and coal. The contents cover not only the basic science of asphaltene but also deal with the applications and technology such as upstreams production recovery and down streams refining upgrading of petroleum and the paving technology and formulation preparation. The main features of the book are it provides an up to date in depth review of every aspect of asphaltenes and asphalts, it spans five decades of research and technology of heavy fractions of petroleum, it presents a global view of asphaltene related to exploration, production, refining and upgrading. The book will be welcomed as a valuable reference source for petroleum companies, research institutes, refineries, universities and also by individuals dealing with the production, origin, formation, engineering, conversion and catalysis of heavy oil, tar sands and other bitumens materials.

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 vantages. 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 Science and Technology of Unconventional Oils M. M. Ramirez-Corredores, 2017-05-18. This book, *The Science and Technology of Unconventional Oils: Finding Refining Opportunities*, intends to report the collective physical and chemical knowledge of unconventional oils: heavy, extra heavy, sour, acid and shale oil and the issues associated with their refining for the production of transportation fuels. It will focus on the discussion of the scientific results and technology activities of the refining of unconventional oils. The presence of reactive and refractory compounds and components that negatively impact refining processing, the bad actors, are discussed and analyzed. The commercially available technologies with their reported improvements and emerging ideas

concepts and technologies are described This comprehensive overview constitutes the basis for establishing technology gaps and in return sets the science and technology needs to be addressed in the future In summary this book incorporates the relevant knowledge of processing unconventional crude oils and of the Bottom of the Barrel fraction describing the related commercially available and emerging technologies to contribute to the identification of existing gaps Relates physicochemical properties and phenomenological behavior of unconventional oils to refining challenges Describes commercially available technologies and the problems they solve Lists recent improvements in various processes and identifies technology gaps Explains emerging new refining technologies and the problems they solve Discusses future needs and challenges and suggests further research and development needs *The Chemistry and Technology of Petroleum* James G. Speight,2014-02-26

With demand for petroleum products increasing worldwide there is a tendency for existing refineries to seek new approaches to optimize efficiency and throughput In addition changes in product specifications due to environmental regulations greatly influence the development of petroleum refining technologies These factors underlie the need for t **Handbook of Petroleum Refining** James G. Speight,2016-10-26

Petroleum refining involves refining crude petroleum as well as producing raw materials for the petrochemical industry This book covers current refinery processes and process types that are likely to come on stream during the next three to five decades The book includes 1 comparisons of conventional feedstocks with heavy oil tar sand bitumen and bio feedstocks 2 properties and refinability of the various feedstocks 3 thermal processes versus hydroprocesses and 4 the influence of refining on the environment Asphalt

Materials Science and Technology James G. Speight,2015-10-01 Asphalt is a complex but popular civil engineering material Design engineers must understand these complexities in order to optimize its use Whether or not it is used to pave a busy highway waterproof a rooftop or smooth out an airport runway Asphalt Materials Science and Technology acquaints engineers with the issues and technologies surrounding the proper selection and uses of asphalts With this book in hand researchers and engineering will find a valuable guide to the production use and environmental aspect of asphalt Covers the Nomenclature and Terminology for Asphalt including Performance Graded PG Binders Asphalt Cement AC Asphalt Rubber A R Binder Asphalt Emulsion and Cutback Asphalt Includes Material Selection Considerations Testing and applications Biodegradation of Asphalt and environmental aspects of asphalt use

Hydrotreating and Hydrocracking Processes in Refining Technology James G. Speight,2023-09-29 Written by an industry expert with over 50 years of experience this book details the various solvent processes that are used in crude oil refineries Providing an in depth exploration of the different types of processes as well as the types of feedstocks that can be used with them this book prepares readers for changes as the industry evolves Key Features Describes feedstock evaluation and the effects of elemental chemical and fractional composition Contains an extensive glossary of all related concepts in hydrotreating and hydrocracking processes Considers next generation processes and developments This book is an essential guide for engineers scientists and students in the field

of petroleum processing and refining technology including professionals technicians management personnel and academics

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