

DEVELOPMENTS IN PETROLEUM SCIENCE 40 A

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Asphaltenes And Asphalts Vol 1 Development In Petroleum Science Vol 40

James G. Speight



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Characterization and Properties of Petroleum Fractions M. R. Riazi, 2005 The last three chapters of this book deal with application of methods presented in previous chapters to estimate various thermodynamic physical and transport properties of petroleum fractions In this chapter various methods for prediction of physical and thermodynamic properties of pure hydrocarbons and their mixtures petroleum fractions crude oils natural gases and reservoir fluids are presented As it was discussed in Chapters 5 and 6 properties of gases may be estimated more accurately than properties of liquids Theoretical methods of Chapters 5 and 6 for estimation of thermophysical properties generally can be applied to both liquids and gases however more accurate properties can be predicted through empirical correlations particularly developed for liquids When these correlations are developed with some theoretical basis they are more accurate and have wider range of applications In this chapter some of these semitheoretical correlations are presented Methods presented in Chapters 5 and 6 can be used to estimate properties such as density enthalpy heat capacity heat of vaporization and vapor pressure Characterization methods of Chapters 2 4 are used to determine the input parameters needed for various predictive methods One important part of this chapter is prediction of vapor pressure that is needed for vapor liquid equilibrium calculations of Chapter 9

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 *The Chemistry and Technology of Petroleum, Fifth Edition* 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 this fifth edition of *The Chemistry and Technology of Petroleum* which continues in the tradition of the bestselling fourth edition proving readers with a detailed overview of the chemistry and technology of petroleum as it evolves into the twenty first century The new edition has been updated with the latest developments in the refining industry including new processes as well as updates on evolving processes and various environmental regulations The book covers issues related to economics and future refineries examines the changing character of refinery feedstock and offers new discussions on environmental aspects of refining It contains more than 300 figures and tables including chemical structures and process flow sheets A useful reference for scientists and engineers in the petroleum industry as well as in the catalyst manufacturing industry this book introduces readers to the science and technology of petroleum beginning with its formation in the ground and culminating in the production of a wide variety of products and petrochemical intermediates

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

Bio-polymerized Sulfur for Sustainable Practice in Applied Sciences and Engineering Abdel-Mohsen O. Mohamed, Maisa El Gamal, 2025-04-10 Bio polymerized Sulfur for Sustainable Practice in Applied Sciences and Engineering explores innovative approaches in sustainable chemistry by leveraging renewable resources and sulfur as foundational elements for creating sustainable functional materials The book highlights the potential of bio polymeric materials derived from sulfur and renewable sources offering new avenues for environmentally friendly manufacturing Additionally the text delves into lifecycle assessment studies and the principles of a circular economy emphasizing the importance of sustainability in modern engineering The work emphasizes the criticality of sustainable practices highlighting the intersection of bio polymeric materials and circular economy principles ultimately guiding the reader towards a more sustainable future The book also presents an in depth analysis of bio polymerized sulfur s role in promoting sustainable development It discusses how polymerized sulfur can be used to develop engineered products that align with sustainability goals Introduces the basic principles of bio and sulfur polymerization Outlines the methods for conducting lifecycle assessment in the manufacturing of bio polymerized sulfur for use in waste management agriculture ground treatment construction road infrastructures and in the production of high functional materials Contributes to the achievement of the UN Sustainable Development Goals

Introduction to Unmanned Aircraft Systems, Second Edition Douglas M. Marshall, Richard K. Barnhart, Eric Shappee, Michael Thomas Most, 2015-10-26 The proliferation of technological capability miniaturization and demand for aerial intelligence is pushing unmanned aerial systems UAS into the realm of a multi billion dollar industry This book surveys the UAS landscape from history to future applications It discusses commercial applications integration into the national airspace system NAS System function operational procedures safety concerns and a host of other relevant topics The book is dynamic and well illustrated with separate sections for terminology and web based resources for further information

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Lee, James G. Speight, Sudarshan K. Loyalka, 2014-07-08 While strides are being made in the research and development of environmentally acceptable and more sustainable alternative fuels including efforts to reduce emissions of air pollutants associated with combustion processes from electric power generation and vehicular transportation fossil fuel resources are limited and may soon be on the verge of depletion in the near future Measuring the correlation between quality of life energy consumption and the efficient utilization of energy the Handbook of Alternative Fuel Technologies Second Edition thoroughly examines the science and technology of alternative fuels and their processing technologies It focuses specifically on environmental technoeconomic and socioeconomic issues associated with the use of alternative energy sources such as sustainability applicable technologies modes of utilization and impacts on society Written with research and development scientists and engineers in mind the material in this handbook provides a detailed description and an assessment of available and feasible technologies environmental health and safety issues governmental regulations and issues and agendas for R D It also includes alternative energy networks for production distribution and consumption What's New in This Edition Contains several new chapters of emerging interest and updates various chapters throughout Includes coverage of coal gasification and liquefaction hydrogen technology and safety shale fuel by hydraulic fracturing ethanol from lignocellulosics biodiesel algae fuels and energy from waste products Covers statistics current concerns and future trends A single volume complete reference the Handbook of Alternative Fuel Technologies Second Edition contains relevant information on chemistry technology and novel approaches as well as scientific foundations for further enhancements and breakthroughs In addition to its purposes as a handbook for practicing scientists and engineers it can also be used as a textbook or as a reference book on fuel science and engineering energy and environment chemical process design and energy and environmental policy

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detailed and accessible examination of the properties behaviour and uses of sulfur cement and concrete in the construction industry It discusses the basic properties and behaviour of sulfur cement and concrete materials evaluates new sulfur market applications and much more *Solvent Processes in Refining Technology* James G. Speight,2023-12-12 This book focuses on the various solvent processes that are used in crude oil refineries It presents the differences between each type of process and discusses the types of feedstock that can be used for the processes This accessible guide is written for managers professionals and technicians as well as graduate students transitioning into the refining industry Key Features Describes the various steps that are necessary for the solvent treatment of various feedstocks in crude oil refineries Brings the reader up to date and adds more data Provides an extensive glossary Considers next generation processes and developments

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 *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 **Books in Print** ,1994 **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 *Chemical Properties of Asphalts and Their Effects on Pavement Performance* Raymond E. Robertson,2000 The purpose of this Circular is to familiarize the asphalt user with the source of asphalt the variable

chemistry of asphalt why variable performance should be expected when asphalt is used in roadways and what is currently missing from the specification process Several areas are identified where refinements in the specification process would improve the ability to classify asphalts by their expected performance This Circular summarizes more than 2 500 pages written during the past 20 years on the effects of fundamental chemistry on the rheological properties of asphalt This Circular should be especially useful to civil engineering students who intend to work in some highway construction related business

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