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ENVIRONMENTAL ANALYSIS AND TECHNOLOGY FOR THE REFINING INDUSTRY

James G. Springer



Environmental Analysis And Technology For The Refining Industry

James G. Speight, Nour Shafik El-Gendy



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Environmental Analysis and Technology for the Refining Industry James G. Speight, 2005-08-31 A timely hands on guide to environmental issues and regulatory standards for the petroleum industry Environmental analysis and testing methods are an integral part of any current and future refining activities Today s petroleum refining industry must be prepared to meet a growing number of challenges both environmental and regulatory Environmental Analysis and Technology for the Refining Industry focuses on the analytical issues inherent in any environmental monitoring or cleanup program as they apply to today s petroleum industry not only during the refining process but also during recovery operations transport storage and utilization Designed to help today s industry professionals identify test methods for monitoring and cleanup of petroleum based pollutants the book provides examples of the application of environmental regulations to petroleum refining and petroleum products as well as current and proposed methods for the mitigation of environmental effects and waste management Part I introduces petroleum technology refining and products and reviews the nomenclature used by refiners environmental scientists and engineers Part II discusses environmental technology and analysis and provides information on environmental regulation and the impact of refining Coverage includes In depth descriptions of analyses related to gaseous emissions liquid effluents and solid waste A checklist of relevant environmental regulations Numerous real world examples of the application of environmental regulations to petroleum refining and petroleum products An analysis of current and proposed methods of environmental protection and waste management

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

Refining Used Lubricating Oils James Speight, Douglas I. Exall, 2014-04-07 Used lubricating oil is a valuable resource However it must be re refined mainly due to the accumulation of physical and

chemical contaminants in the oil during service Refining Used Lubricating Oils describes the properties of used lubricating oils and presents ways these materials can be re refined and converted into useful lubricants as well as other products It provides an up to date review of most of the processes for used lubricating oil refining that have been proposed or implemented in different parts of the world and addresses feasibility and criteria for selecting a particular process The book begins with an overview of lubricating oil manufacturing both petroleum based and synthetic based It reviews the types and properties of lubricating oils and discusses the characteristics and potential of used lubricating oils The authors describe the basic steps of used oil treatment including dehydration distillation or solvent extraction and finishing They explore the combustion of used oil for use as fuel covering chemistry and equipment fuel oil properties and combustion emissions The book considers alternative processing options such as refinery processing and re refining It also reviews the major refining processes that have been suggested over the years for used oil These include acid clay simple distillation combinations of distillation and hydrogenation solvent extraction filtration and coking processes The book addresses economic life cycle assessment and other criteria for evaluating the attractiveness of an oil recycling project examining various costs and presenting an economic evaluation method using an Excel spreadsheet that can be downloaded from the publisher s website The book concludes with a chapter offering insights on how to choose the most suitable process technology

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

Petroleum Biodegradation and Oil Spill Bioremediation Karuna K. Arjoon, James G. Speight, 2022-12-22 The prime focus of the book is to determine the mechanism extent and efficiency of biodegradation processes as it is necessary to know the composition of the original crude oil or crude oil product The technology of bioremediation and the concerns of whether or not bioremediation technologies can accelerate this natural process enough to be considered practical and if so whether they might find a niche as replacements for or adjuncts to other crude oil spill response technologies This book also introduces the reader to the science of the composition of crude oil and crude oil products is at the core of understanding the chemistry of biodegradation and bioremediation processes

Environmental Organic Chemistry for Engineers James G. Speight, 2016-11-02 Environmental Organic Chemistry for Engineers clearly defines the principles of environmental organic chemistry and the role they play in forming remediation strategies In this reference the author explores parameter estimation methods the thermodynamics and kinetics needed to predict the fate transports and reactivity of organic compounds in air water and soils The book s four part treatment starts with the classification of organic molecules and physical properties of natural organic matter halocarbons phenols polyaromatic hydrocarbons organophosphates and surfactants An overview of remediation technologies and a discussion of

the interactions that lead to physical properties that affect chemical distribution in the environment is also detailed as are the important reaction classes of organic molecules including substituent effects and structure and activity relationships found in Part Two and Three Part four is devoted to the strengths and weaknesses of different remediation technologies and when they should be employed Clearly defines the principles of environmental organic chemistry and the role they play in forming remediation strategies Includes the tools and methods for classifying environmental contaminants found in air water and soil Presents a wide range of remediation technologies and when they should be deployed for maximum effect

Fossil Energy Ripudaman Malhotra, 2012-12-12 The word sustainability shares its root with sustenance In the context of modern society sustenance is inextricably linked to the use of energy Fossil Energy provides an authoritative reference on all aspects of this key resource which currently represents nearly 85% of global energy consumption Gathering 16 peer reviewed entries from the Encyclopedia of Sustainability Science and Technology the chapters provide comprehensive yet concise coverage of fundamentals and current areas of research Written by recognized authorities in the field this volume represents an essential resource for scientists and engineers working on the development of energy resources fossil or alternative and reflects the essential role of energy supplies in supporting a sustainable future

Petroleum Waste Treatment and Pollution Control Shahryar Jafarinejad, 2016-10-18 Petroleum Waste Treatment and Pollution Control combines state of the art and traditional treatment and control methods for removing controlling and treating problems such as groundwater contamination aromatics oil grease organic removal and VOCs The book is divided into seven chapters with the first briefly introducing readers to the petroleum industry The second and third chapters explain wastes in the petroleum industry and focus on its environmental impact its regulations and protection options Chapters four five and six discuss the treatment of air emissions oily wastewater solid wastes and disposal methods The final chapter provides remediation processes Presents the latest methods for treating controlling and eliminating pollutants from air water and land that are a byproduct of petroleum industry operations Covers the environmental impact of the petroleum industry and its regulations explaining protection options Includes treatment methods for both air water and solid waste disposal Discusses remediation processes including natural processes pump and treat soil flushing soil vapor extraction SVE bioremediation and excavation

Heavy Oil Recovery and Upgrading James G. Speight, 2019-03-05 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

Handbook of Industrial Hydrocarbon Processes James G. Speight, 2019-11-21 Handbook of Industrial Hydrocarbon Processes Second Edition

provides an analysis of the process steps required to produce hydrocarbons from various raw materials and how the choice of a process depends not only on technology but also on external effects such as social and economic developments political factors affecting the availability of raw materials and environmental legislation This book qualitatively examines chemical processes and plant design by showing the factors determining process structures including the underlying chemistry feedstock product specifications and reactor design The book also compares the processes for different products based on raw materials and manufacturing processes based on their respective applications With the addition of useful flowcharts that present an overview of the chemical processes process design and equipment this book is a valuable resource to industry professionals on how to understand how hydrocarbons are produced from different raw materials and how to develop an instinct for the right process development strategy Provides a qualitative analysis of chemical processes and plant design by showing the factors determining process structures Presents chemical processes in an organized easy to read and understandable manner with the use of useful flowcharts and concise descriptions Includes updates on changes in existing technological and chemical processes as well as possible future improvements or changes to other more economic or more readily available feedstocks

Bioremediation of Petroleum and Petroleum Products James G. Speight, Karuna K. Arjoon, 2012-11-07 With petroleum related spills explosions and health issues in the headlines almost every day the issue of remediation of petroleum and petroleum products is taking on increasing importance for the survival of our environment our planet and our future This book is the first of its kind to explore this difficult issue from an engineering and scientific point of view and offer solutions and reasonable courses of action This book will guide the reader through the various methods that are used for the bioremediation of petroleum and petroleum products The text is easy to read and includes many up to date and topical references This book introduces the reader to the science and technology of biodegradation a key process in the bioremediation of petroleum and petroleum based contaminants at spill sites The contaminants of concern in the molecularly variable petroleum and petroleum products can be degraded under appropriate conditions But the success of the process depends on the ability to determine the necessary conditions and establish them in the contaminated environment Although the prime focus of the book is to determine the mechanism extent and efficiency of biodegradation it is necessary to know the composition of the original petroleum or petroleum product The laws of science dictate what can or cannot be done with petroleum and petroleum products to ensure that biodegradation hence bioremediation processes are effective The science of the composition of petroleum and petroleum products is at the core of understanding the chemistry of biodegradation and bioremediation processes Hence inclusion of petroleum analyses and properties along with petroleum product analyses and properties is a necessary part of this text Bioremediation of Petroleum and Petroleum Products Summarizes the pros and cons of remediation of petroleum and petroleum based products from an environmental perspective Gives examples of unethical behavior and how they should be corrected Offers arguments and elucidates engineering considerations on all

sides of these difficult environmental and economic issues **Introduction to Petroleum Biotechnology** James G. Speight, Nour Shafik El-Gendy, 2017-12-11 Introduction to Petroleum Biotechnology introduces the petroleum engineer to biotechnology bringing together the various biotechnology methods that are applied to recovery refining and remediation in the uses of petroleum and petroleum products A significant amount of petroleum is undiscoverable in reservoirs today using conventional and secondary methods This reference explains how microbial enhanced oil recovery is aiding to produce more economical and environmentally friendly metabolic events that lead to improved oil recovery Meanwhile in the downstream side of the industry petroleum refining operators are facing the highest levels of environmental regulations while struggling to process more of the heavier crude oils since conventional physical and chemical refining techniques may not be applicable to heavier crudes This reference proposes to the engineer and refining manager the concepts of bio refining applications to not only render heavier crudes as lighter crudes through microbial degradation but also through biodenitrogenation biodemetalization and biodesulfurization making more petroleum derivatives purified and upgraded without the release of more pollutants Equipped for both upstream and downstream to learn the basics this book is a necessary primer for today's petroleum engineer Presents the fundamentals behind petroleum biotechnology for both upstream and downstream oil and gas operations Provides the latest technology in reservoir recovery using microbial enhanced oil recovery methods Helps readers gain insight into the current and future application of using biotechnology as a refining and fuel blending method for heavy oil and tar sands **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

Sustainable Solutions for Environmental Pollution, Volume 2 Nour Shafik El-Gendy, 2022-05-04 SUSTAINABLE SOLUTIONS FOR ENVIRONMENTAL POLLUTIONS This second volume in a broad comprehensive two volume set Sustainable Solutions for Environmental Pollution concentrates on air water and soil reclamation some of the biggest challenges facing environmental engineers and scientists today This second new volume in the two volume set Sustainable Solutions for Environmental Pollution picks up where volume one left off covering the remediation of air water and soil environments Outlining new methods and technologies for all three environmental scenarios the authors and editor go above and beyond introducing naturally based techniques in addition to changes and advances in more standard methods Written

by some of the most well known and respected experts in the field with a prolific and expert editor this volume takes a multidisciplinary approach across many scientific and engineering fields intending the two volume set as a one stop shop for all of the advances and emerging techniques and processes in this area This groundbreaking new volume in this forward thinking set is the most comprehensive coverage of all of these issues laying out the latest advances and addressing the most serious current concerns in environmental pollution Whether for the veteran engineer or the student this is a must have for any library This volume Offers new concepts and techniques for air water and soil environment remediation including naturally based solutions Provides a comprehensive coverage of removing heavy chemicals from the environment Offers new emerging techniques for pollution prevention Is filled with workable examples and designs that are helpful for practical applications Is useful as a textbook for researchers students and faculty for understanding new ideas in this rapidly emerging field AUDIENCE Petroleum chemical process and environmental engineers other scientists and engineers working in the area of environmental pollution and students at the university and graduate level studying these areas

Natural Water Remediation James G. Speight, 2019-08-29 Natural Water Remediation Chemistry and Technology considers topics such as metal ion solubility controls pH carbonate equilibria adsorption reactions redox reactions and the kinetics of oxygenation reactions that occur in natural water environments The book begins with the fundamentals of acid base and redox chemistry to provide a better understanding of the natural system Other sections cover the relationships among environmental factors and natural water including biochemical factors hydrologic cycles and sources of solutes in the atmosphere Chemical thermodynamic models as applied to natural water are then discussed in detail Final sections cover self contained applications concerning composition quality measurement and analyses for river lake reservoir and groundwater sampling Covers the fundamentals of acid base and redox chemistry for environmental engineers Focuses on the practical uses of water soil mineral and bedrock chemistry and how they impact surface and groundwater Includes applications concerning composition quality measurement and analyses for river lake reservoir and groundwater sampling

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