

Gasification of Unconventional Feedstocks

James G. Speight, PhD, DSc



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Gasification of Unconventional Feedstocks James G. Speight, 2014-01-03 World gasification capacity is expected to grow by more than 70% by 2015 While gasification is not a new process the higher price in crude has lead operators and refineries to look at all possible coal based technologies for energy conversion and with the flow of heavy oil tar sands and other unconventional feedstocks making their way to the refineries for processing refinery managers and engineers alike must be made aware of how to process these uncommon energy sources Gasification of Unconventional Feedstocks addresses these unfamiliar feeds and provides a quick and up to date reference on the background process technology and downstream applications required to help refineries maximize profits turning low value feedstock to beneficial syngas and other fuel products Clear and comprehensive Gasification of Unconventional Feedstocks provides engineers and refinery managers with the tools needed to quickly adapt to the more unconventional feedstocks and still maximize their refineries potential Get up to speed on how to adjust your refinery s processing to unconventional feedstocks Understand the technology necessary to safely and effectively manage unfamiliar feeds Turn low value product to profit quickly with must have tips and rules of thumb

Synthesis Gas James G. Speight, 2020-06-10 As a follow up to the Handbook of Gasification Technology also from Wiley Scrivener Synthesis Gas goes into more depth on how the products from this important technology can reduce our global carbon footprint and lead the United States and other countries toward energy independence The environmental benefits are very high and along with carbon capture and renewable fuels synthesis gas or syngas is a huge step toward environmental sustainability Synthesis gas is one of the most important advancements that has ever occurred in energy production Using this technology for example coal biomass waste products or a combination of two or more of these can be gasified into a product that has roughly half the carbon footprint of coal alone Used on a massive scale just think of the potential for reducing carbon emissions Synthesis Gas covers all aspects of the technology from the chemistry processes and production to the products feedstocks and even safety in the plant Whether a veteran engineer or scientist using it as a reference or a professor using it as a textbook this outstanding new volume is a must have for any library **Chemistry**

And Technology Of Alternate Fuels James G Speight, 2020-10-14 This compendium covers unconventional fuel sources i e sources other than crude oil and natural gas with the aim of presenting these sources as future alternates to fossil fuels The contents of this must have volume are important aspects of the non fossil fuel sources of availability of alternate sources of fuels The properties of these fuels are well documented and compared to other fuels from non petroleum sources such as tar sand coal and oil shale The environmental effects of non petroleum fuels will also be compared to other fuels in terms of current environmental regulations *Handbook of Alternative Fuel Technologies, Second Edition* Sunggyu 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

Biomass Processes and Chemicals James G. Speight, 2022-02-13 Biomass Processes and Chemicals is written to assist the reader in understanding the options available for the production of chemicals from biomass Petroleum based and natural gas based chemicals are well established products that have served industry and consumers for more than one hundred years However time is running out and natural gas and petroleum are now being depleted Thus the need for alternative technologies to produce chemicals is necessary Chemicals produced from sources are now coming into place for the establishment of a chemicals from biomass industry hence this book covers these advancements Introduces a variety of biomass feedstocks as sources of chemicals Includes accurate background science and technology for technological options Features a very thorough approach for topical matters Written in a highly structured way by a globally recognized authority in the field

Gas Engineering James G. Speight, 2022-11-07 Volume 2 covers the constituents of gas streams and their properties The author presents the chemistry and engineering aspects of the methods and principles by which the gas streams might be cleaned from their noxious constituents The concept of gas condensate is also discussed as well as the methods which can be applied to the analysis of streams and condensate Vol 1 Origin and Reservoir Engineering Vol 3 Uses of Gas and Effects

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

Handbook of Petrochemical Processes James G. Speight, 2019-06-13 The petrochemical industry is a scientific and engineering field that encompasses the production of a wide range of chemicals and polymers The purpose of this book is not only to provide a follow on to form the later chapters of the highly successful Chemistry and Technology of Petroleum 5th Edition but also provides a simplified approach to a very diverse chemical subject dealing with the chemistry and technology of various petroleum and petrochemical process Following from the introductory chapters this book provides the readers with a valuable source of information containing insights into petrochemical reactions and products process technology and polymer synthesis Provides readers with a valuable source of information containing insights into petrochemical reactions and products process technology and polymer synthesis Introduces the reader to the various petrochemical intermediates are generally produced by chemical conversion of primary petrochemicals to form more complicated derivative products The reactions and processes involved in transforming petroleum based hydrocarbons into the chemicals that form the basis of the multi billion dollar petrochemical industry are reviewed and described The book includes information on new process developments for the production of raw materials and intermediates for petrochemicals Includes a description of the origin of the raw materials for the petrochemicals industry including an overview of the coal chemicals industry

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

Coal-Fired Power Generation Handbook James G. Speight, 2021-02-17 Rund ein Viertel des weltweiten Energieverbrauchs wird mit Kohle bestritten und von der weltweit gef rderten Kohle werden ca 65 % an Stromerzeuger und 33 % an industrielle Abnehmer geliefert wobei der Rest berwiegend an Verbraucher im privaten und gewerblichen Bereich geht Es wird erwartet dass der Anteil der Kohle am gesamten Energieverbrauch weltweit bis 2035 auf knapp 30 % steigt Dieses Werk beschreibt die Herausforderungen und die einzelnen Schritte bei der Energieproduktion aus Kohle und befasst sich mit den Herausforderungen beim Umgang mit Umweltschutzbedenken gegen die Nutzung von Kohle in den Kraftwerken der Zukunft Es werden neue Technologien beschrieben mit denen die Freisetzung von sch dlichen Schwefel Stickstoff und Quecksilberpartikeln bei der Verbrennung von Kohle zur Stromerzeugung nahezu eliminiert werden kann Au erdem wird

beschrieben mit welchen Technologien sich die von den Kohlekraftwerken ausgestoßenen Treibhausgase abscheiden lassen und wie es möglich ist zu verhindern dass diese Emissionen zur globalen Erwärmung beitragen Das Buch ist von einem der weltweit führenden Energieexperten verfasst und ist ein absolutes Muss für alle Ingenieure Wissenschaftler und Studierenden in diesem Fachbereich denn es dient als wertvolles Nachschlagewerk und Leitfaden in einem sich rasch verändernden Umfeld

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 Hydrogen Production Processes in Refining Technology James

G. Speight, 2024-06-26 This book details the various approaches to the production of hydrogen in petroleum refining The need for hydrogen is addressed and then the differences between the processes are detailed This practical and accessible guide is written for managers professionals and technicians as well as graduate students transitioning into the refining industry Key Features Describes hydrogen purification methods and processes providing relevant process data and fully describing process operations Describes hydrogen purification methods and processes detailing the types of feedstock that can be used and exploring the options and parameters of each process Details commercial processes including gasification pretreatment and reactions and considers next generation processes and developments *Gas Cleaning Processes in Refining Technology* James G. Speight, 2024-11-26 This book focuses on the various refinery processes that are used for gas

cleaning operations By understanding the use of gas cleaning processes this book will satisfy the needs of engineers and scientists at all levels from academia to the refinery and help them understand the initial various processes This accessible guide is written for managers professionals and technicians as well as graduate students transitioning into the refining industry Key Features Describes gas streams produced in a crude oil refinery and from non refinery feedstocks Covers gas

condensate gas from biomass waste and landfill waste and details categorization by types of contaminants and by removal method Provides an extensive glossary Discusses the future of gas cleaning operations and the evolution of the industry This series of eight books is designed to present descriptions of 1 the development of technologies for a variety of feedstocks including the viscous feedstocks which are often referred to as heavy feedstocks utilizing advanced pre treatment processing and hydrotreating 2 an analysis of the catalyst deactivation mechanism for developing optimum technologies for processing feedstocks with low reactivity 3 the development of advanced technologies applicable to the viscous feedstocks 4 the development of advanced hydrocracking processes for heavy feedstock upgrading 5 the development of innovative upgrading processes for the viscous feedstocks and 6 the role of biomass in the future refinery Furthermore each book is a stand alone volume that will bring the reader further up to date and adds more data as well as processing options that may be the processes of the evolving twenty first century As the eighth book in the series this book will focus on the various refinery processes that are used for gas cleaning operations The target audience includes engineers scientists and students who want an update on crude oil processing and the direction of the industry in the next 50 years Such personnel include 1 professionals in the refining industry 2 technicians in the refining industry 3 industry management personnel who need to understand the various processes and the role of these process in producing the desired feedstocks for further processing and the use of solvents to produce saleable products and 4 the academic staff and graduate students who are moving into the refining industry Any non technical readers with help from the extensive glossary will also benefit from the series

Rules of Thumb for Petroleum Engineers James G. Speight, 2017-02-17 The most comprehensive and thorough reference work available for petroleum engineers of all levels Finally there is a one stop reference book for the petroleum engineer which offers practical easy to understand responses to complicated technical questions This is a must have for any engineer or non engineer working in the petroleum industry anyone studying petroleum engineering or any reference library Written by one of the most well known and prolific petroleum engineering writers who has ever lived this modern classic is sure to become a staple of any engineer s library and a handy reference in the field Whether open on your desk on the hood of your truck at the well or on an offshore platform this is the only book available that covers the petroleum engineer s rules of thumb that have been compiled over decades Some of these rules until now have been unspoken but everyone knows while others are meant to help guide the engineer through some of the more recent breakthroughs in the industry s technology such as hydraulic fracturing and enhanced oil recovery The book covers every aspect of crude oil natural gas refining recovery and any other area of petroleum engineering that is useful for the engineer to know or to be able to refer to offering practical solutions to everyday engineering problems and a comprehensive reference work that will stand the test of time and provide aid to its readers If there is only one reference work you buy in petroleum engineering this is it

The Refinery of the Future James G. Speight, 2020-07-25 The Refinery of the Future Second Edition delivers useful knowledge that will help the

engineer understand the processes involved feedstocks composition and future technologies Covering the basic chemistry commercial processes already in use and future innovation this reference gives engineers and managers the tools needed to understand refining products feedstocks and the processes critical to convert feedstocks to desired outcomes New information concerning tight shale formations and heavy oil process options is included for today s operations Rounding out with future uses in shale bioliquids and refinery configurations this book gives engineers and refinery managers the knowledge to update and upgrade their refinery assets Links basic petrochemical and refinery knowledge into application for today s oil and gas refining industry Gives insights into the development and applications of refining process technology along with the types of feedstock and their properties Updated with a focus on crude oils recovered from tight shale and sandstone formations along with increased emphasis on heavy oil and tar sand bitumen

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

Handbook of Alternative Fuel Technologies Sunggyu Lee, James G. Speight, Sudarshan K. Loyalka, 2007-03-23 In addition to enabling a clean and energy efficient future alternative fuel sources are fast becoming a necessity for meeting today s growing demands for low cost and convenient energy The Handbook of Alternative Fuel Technologies offers a thorough guide to the science and available technologies for developing alternatives to petroleum fuel sour

Peak Energy James G. Speight, M. R. Islam, 2018-03-27 Does the Earth contain enough oil to provide energy for the human race indefinitely If not how long will the oil last What about renewable energy technologies like wind and solar Will they be able to supply an indefinite supply of energy for the human race If not how long will it last And what role does overpopulation play in our world s energy supply Even with multiple forms of energy available how long will it last as long as more and more humans and therefore more industries and energy consumption are added Taking a long held theory called Peak Oil Theory the authors of this groundbreaking new text

examine the theory of Peak Energy to examine all of these questions Crude oil and natural gas are the major sources of fuel used to supply energy for various needs Users of crude oil and natural gas must take into account that these energy sources are without doubt non renewable depleting resources and the cost of extraction depends not only on the current rate of production but also on the amount of cumulative production In fact many pundits believe projections that the world is rapidly approaching a precipice after which crude oil and natural gas will no longer be in ready supply This phenomenon has given rise to the peak oil theory peak oil is the point in time when the maximum rate of petroleum recovery from the reservoir is reached after which the rate of petroleum production enters terminal decline From this concept has emerged the wider concept of the peak energy theory which as it is related to the availability of all fossil fuels is also subject to decline with fossil fuel use This text written by two of the world s most well known respected and prolific writers in the energy industry is a fascinating study of our world s energy needs and the future of the multi source energy supply on this planet Whether oil and gas wind solar geothermal or even nuclear all sources of energy have their limits and we as scientists engineers and consumers of energy need to be knowledgeable on these topics This book is a must have for any engineer student scientist or even layperson interested in energy and the idea of energy sustainability on planet Earth *Refinery Products and Product Improvement Processes* James G. Speight, 2024-04-18 This book focuses on the various refinery products product improvement processes and solvent processes that are used in the refining industry and the processes used in product improvement to ensure products meet sales specifications This accessible book is written for engineers scientists students and academics wanting an update on crude oil processing and insight into the direction of the industry Key features Describes the development of technologies for a variety of feedstocks including heavy feedstocks utilizing advanced pretreatment processing and hydrotreating Presents the initial refining processes and prepares for the new changes and evolution of the industry including the role of biomass in the future refinery Analyses catalyst deactivation mechanism for developing optimum technologies for processing feedstocks with low reactivity Includes an extensive glossary which will be beneficial for non technical readers *Refinery Feedstocks* James G. Speight, 2020-10-20 Over the last several decades the petroleum industry has experienced significant changes in resource availability petro politics and technological advancements dictated by the changing quality of refinery feedstocks However the dependence on fossil fuels as the primary energy source has remained unchanged *Refinery Feedstocks* addresses the problems of changing feedstock availability and properties the refining process and solids deposition during refining This book will take the reader through the various steps that are necessary for crude oil evaluation and refining including the potential for the use of coal liquids shale oil and non fossil fuel materials biomass as refinery feedstocks Other features Describes the various types of crude oil and includes a discussion of extra heavy oil and tar sand bitumen Includes basic properties and specifications of crude oil and the significance in refinery operations This book is a handy reference for engineers scientists and students who want an update

on crude oil refining and on the direction the industry must take to assure the refinability of various feedstocks and the efficiency of the refining processes in the next fifty years Non technical readers with help from the extensive glossary will also benefit from reading this book

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