

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

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

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

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

Methanol: The Basic Chemical and Energy Feedstock of the Future Martin Bertau, Heribert Offermanns, Ludolf Plass, Friedrich Schmidt, Hans-Jürgen Wernicke, 2014-02-18 Methanol The Chemical and Energy Feedstock of the Future offers a visionary yet unbiased view of methanol technology Based on the groundbreaking 1986 publication Methanol by Friedrich Asinger this book includes contributions by more than 40 experts from industry and academia The authors and editors provide a comprehensive exposition of methanol chemistry and technology which is useful for a wide variety of scientists working in chemistry and energy related industries as well as academic researchers and even decision makers and organisations concerned with the future of chemical and energy feedstocks

Synthetic Fuels Handbook James Speight, 2020-07-22 Publisher's Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product A thoroughly revised all in one guide to synthetic and alternative energy This fully updated resource discusses the benefits and trade offs of numerous alternative fuels and contains complete coverage of the properties processes and performance characteristics of each fuel You will get detailed explanations of the concept systems and technologies involved in fuel production on both industrial and individual scales Written by internationally renowned fuels expert Dr James G Speight Synthetic Fuels Handbook Properties Process and Performance Second Edition contains the latest data and applications for gaseous liquid and solid fuels from a wide range of sources Covers fuels from Natural gas Crude oil Heavy oil Tar sand bitumen Coal Oil shale Biomass Crops Wood Domestic waste Industrial waste Landfill gas Synthesis gas

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. It introduces a variety of biomass feedstocks as sources of chemicals. It includes accurate background science and technology for technological options. It features a very thorough approach for topical matters. Written in a highly structured way by a globally recognized authority in the field, [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 sources. *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.

Handbook of Alternative Fuel Technologies 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 d **Synthetic Fuels Handbook** James Speight,2008-06-22 Capitalize on the Vast Potential of Alternative Energy Sources Such as Fuel Cells and Biofuels Synthetic Fuels Handbook is a comprehensive guide to the benefits and trade offs of numerous alternative fuels presenting expert analyses of the different properties processes and performance characteristics of each fuel It discusses the concept systems and technology involved in the production of fuels on both industrial and individual scales Written by internationally renowned fuels expert James G Speight this vital resource describes the production and properties of fuels from natural gas and natural gas hydrates tar sand bitumen coal oil shale synthesis gas crops wood sources biomass industrial and domestic waste landfill gas and much more Using both U S and SI units Synthetic Fuels Handbook features Information on conventional and nonconventional fuel sources Discussion of the production of alternative fuels on both industrial and individual scales Analyses of properties and uses of gaseous liquid and solid fuels from different sources Comparison of properties of alternative fuels with petroleum based fuels Discover All the Benefits and Trade Offs of Synthetic Fuels Fuel sources conventional and nonconventional Natural gas and natural gas hydrates Petroleum and heavy oil Tar sand bitumen Coal Oil shale Synthesis gas Crops Wood sources Biomass Industrial and domestic waste Landfill gas Comparison of the properties and uses of gaseous fuels from different sources Comparison of the properties and uses of liquid fuels from different sources Comparison of the properties and uses of solid fuels from different sources *The Energy Index* ,1987

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 **Biofuels Handbook** James G Speight,2011-07-05 Petroleum based fuels are well established products that have served industry and consumers for more than one hundred years However petroleum once considered inexhaustible is now being depleted at a rapid rate As the amount of available petroleum decreases the need for alternative technologies to produce liquid fuels that could potentially help prolong the liquid fuels culture and mitigate the forthcoming effects of the shortage of transportation fuels is being sought The dynamics are now coming into place for the establishment of a synthetic fuels industry the processes for recovery of raw materials and processing options have to change to increase the efficiency of oil production and it is up to various levels of government not only to promote the establishment of such an industry but to recognise the need for available and variable technology This timely handbook is written to assist the reader in understanding the options that available for the production of synthetic fuel from biological

sources Each chapter contains tables of the chemical and physical properties of the fuels and fuel sources It is essential that the properties of such materials be presented in order to assist the researcher to understand the nature of the feedstocks as well as the nature of the products If a product cannot be employed for its hope for use it is not a desirable product and must be changed accordingly Such plans can only be made when the properties of the original product are understood The fuels considered include conventional and unconventional fuel sources the production and properties of fuels from biomass crops wood domestic and industrial waste and landfill gas

Gasification for Low-grade Feedstock Yongseung Yun, 2018-07-11

Most coveted energy forms nowadays are gas in nature and electricity due to their environmental cleanness and convenience Recently gasification market trend is starting to switch to low grade feedstock such as biomass wastes and low rank coal that are still not properly utilized In this sense the most promising area of development in gasification field lies in low grade feedstock that should be converted to more user friendly gas or electricity form in utilization This book tried to shed light on the works on gasification from many parts of the world and thus can feel the technology status and the areas of interest regarding gasification for low grade feedstock

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Gasification Navneet Kumar, 2016 Gasification provides an excellent overview of current technologies for the gasification of coal oil gas biomass and waste feed stocks Starting from the basic theory it reviews the potential feed stocks and their suitability for different types of gasification process Commercial and near commercial processes are described individually and various features discussed in detail There is a comprehensive review of contaminants in synthesis gas as well as of gas treating processes Gasification the key technology enabling the production of biofuels from all viable sources some examples being sugar cane and switch grass This versatile resource not only explains the basic principles of energy conversion systems but also provides valuable insight into the design of biomass gasifiers The author provides many worked out design problems step by step design procedures and real data on commercially operating systems After fossil fuels biomass is the most widely used fuel in the world Biomass resources show a considerable potential in the long term if residues are properly handled and dedicated energy crops are grown

Novoe krepostnoe pravo ,1903

A Survey of Biomass Gasification Solar Energy Research Institute, 1979

A Survey of Biomass Gasification: Principles of gasification Solar Energy Research Institute, 1979

Unveiling the Power of Verbal Artistry: An Psychological Sojourn through **Gasification Of Unconventional Feedstocks** **James G Speight**

In some sort of inundated with monitors and the cacophony of instant interaction, the profound energy and emotional resonance of verbal art usually fade in to obscurity, eclipsed by the continuous onslaught of sound and distractions. However, located within the musical pages of **Gasification Of Unconventional Feedstocks James G Speight**, a interesting work of fictional beauty that impulses with natural feelings, lies an unforgettable journey waiting to be embarked upon. Composed by a virtuoso wordsmith, this exciting opus books visitors on a psychological odyssey, gently exposing the latent possible and profound affect stuck within the complex internet of language. Within the heart-wrenching expanse of this evocative analysis, we will embark upon an introspective exploration of the book is key themes, dissect their fascinating writing fashion, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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