GREEN CHEMISTRY AND CHEMICAL ENGINEERING

Second Edition

**Handbook of** 

# ALTERNATIVE FUEL TECHNOLOGIES

Edited by Sunggyu Lee James G. Speight Sudarshan K. Loyalka



Maulin P. Shah

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 **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 Sustainable Water Technologies Daniel H. Chen, 2016-10-14 Development of advanced technologies is a critical component in overcoming the looming water crisis Stressing emerging technologies and strategies that facilitate water sustainability for future generations the second volume in the two volume set Sustainable

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Energy and Fuel Systems Integration Yatish T. Shah, 2015-10-15 Energy and Fuel Systems Integration explains how growing energy and fuel demands paired with the need for environmental preservation require different sources of energy and fuel to cooperate and integrate with each other rather than simply compete Providing numerous examples of energy and fuel systems integration success stories this book Discusses the use of different mixtures of fuels for combustion gasification liquefaction pyrolysis and anaerobic digestion processes Describes the use of hybrid nuclear and renewable energy systems for power and heat cogenerations with nonelectrical applications Details the holistic integration of renewable nuclear and fossil energy systems by gas heat and smart electrical grids Energy and Fuel Systems Integration emphasizes the many advantages of these integrated systems including sustainability flexibility for optimization and scale up and more efficient use Handbook of Alternative Fuel Technologies Sunggyu of storage transportation and delivery infrastructures 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 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 **Resource Recovery to Approach Zero Municipal Waste Mohammad J.** petroleum engineering this is it Taherzadeh, Tobias Richards, 2018-10-08 Current development results in a linear flow from raw material to waste which cannot be sustainable in the long term Plus a global population of 7 billion people means that there are 7 billion waste producers in the world At present dumping and landfilling are the primary practices for getting rid of municipal solid waste MSW However this waste contains resources that we ve yet to utilize To create sustainable societies we need to approach zero waste by recovering these resources There are cities and countries where zero waste is close to becoming a reality Landfilling of organic waste is forbidden in Europe and countries such as Sweden Germany Belgium and Switzerland have developed a variety of technologies to recover resources from MSW Resource Recovery to Approach Zero Municipal Waste explores the solid waste management laws and regulations of different countries comparing the latest resource recovery technologies and offering future perspectives The book tackles the many technical social ecological economical and managerial aspects of this complex subject while promoting the development of sustainable societies to achieve a greener global environment Handbook of Green Chemistry and Technology James H. Clark, Duncan J. Macquarrie, 2008-04-15 Sustainable development is now accepted as a necessary goal for achieving societal economic and environmental objectives Within this chemistry has a vital role to play The chemical industry is successful but traditionally success has come at a heavy cost to the environment The challenge for chemists and others is to develop new products processes and services that achieve societal economic and environmental benefits This requires an approach that reduces the materials and energy intensity of chemical processes and products minimises the dispersion of harmful chemicals in the environment maximises the use of renewable resources and extends the durability and recyclability of products in a way that increases industrial competitiveness as well as improve its tarnished image Handbook of Clean Energy Systems, 6 Volume Set Jinvue Yan, 2015-06-22 The Handbook of Clean Energy Systems brings together an international team of experts to present a comprehensive overview of the latest research developments and practical applications throughout all areas of clean energy systems Consolidating information which is currently scattered across a wide variety of literature sources the handbook covers a broad range of topics in this interdisciplinary research field including both fossil and renewable energy systems The development of intelligent energy systems for efficient energy processes and mitigation technologies for the reduction of environmental pollutants is explored in depth and environmental social and economic impacts are also addressed Topics covered include Volume 1 Renewable Energy Biomass resources and biofuel production Bioenergy Utilization Solar Energy Wind Energy Geothermal Energy Tidal Energy Volume 2 Clean Energy Conversion Technologies Steam Vapor Power Generation Gas Turbines Power Generation Reciprocating Engines Fuel Cells Cogeneration and Polygeneration Volume 3 Mitigation Technologies Carbon Capture Negative Emissions System Carbon Transportation Carbon Storage Emission

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biofuels The book provides a road map of the various kinds of biofuels available for consideration It focuses on microbial based power generation applications of nanotechnology in biofuel development advancements in molecular techniques economic and life cycle assessments The book also highlights the commercialization prospects and economics of the various processes and an overview of the life cycle assessment of the various different kinds of biofuels The contributors are experienced professors academicians and scientists associated with renowned laboratories and institutes in India and abroad This book is of interest to teachers researchers biofuel scientists capacity builders and policymakers Also the book serves as additional reading material for undergraduate and graduate students National and international scientists policy makers will also find this to be a useful read Green Approach to Alternative Fuel for a Sustainable Future Maulin P. Shah, 2023-05-14 Green Approach on Alternative Fuel for Sustainable Future addresses the advancement of biological and biochemical technologies in context to alternative fuel synthesis This book emphasizes and discusses the technology involved and development on the status of alternative fuel production and related aspects including biofuel production. The potential uses of waste material to turn them into wealth as alternative energy sources also been discussed The extended and detailed content of the book also covers the promising uses of microalgae treatment to produce biofuel By not being limited to the biological aspect the book also discusses and explores the perspective of green chemistry for energy production By adding policy and commercialization the book provides comprehensive information from lab to field with extensive illustrations case studies summary tables and up to date references Gives an overall overview on general and applied aspects on biofuels Provides scientific methodology for viable sustainable transition strategies for policy makers Outlines green technologies to face the environmental crisis and allow for the transformation into a sustainable future Provides data based information in context to advance and innovative technology Explore possibilities and limitation of expansion and commercialization of biofuels Offers accumulation of innovative approach to promoting sustainable development Includes cutting edge research Synthetic Fuels Handbook James Speight, 2008-06-22 Capitalize on the Vast Potential concepts for biofuels production 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

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