

GREEN CHEMISTRY AND CHEMICAL ENGINEERING

Second Edition

Handbook of
ALTERNATIVE FUEL
TECHNOLOGIES

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



CRC Press
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Handbook Of Alternative Fuel Technologies Green Chemistry And Chemical Engineering

Peipei Pang



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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 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

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 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 **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 Water Management and Technologies provides current and forthcoming technologies research development and applications to help ensure availability of water for all The book emphasizes emerging nanotechnology biotechnology and information technology applications as well as sustainable processes and products to protect the environment and human health save water and energy and minimize material use It also discusses such topics as groundwater transport protection and remediation industrial and wastewater treatment reuse and disposal membrane technology for water purification and desalination treatment and disposal in unconventional oil and gas development biodegradation and bioremediation for soil and water Stresses emerging technologies and strategies that facilitate water sustainability Covers a wide array of topics including drinking water wastewater and groundwater treatment protection and remediation Discusses oil and gas drilling impacts and pollution prevention membrane technology for water desalination and purification biodegradation and bioremediation for soil and water Details emerging nanotechnology biotechnology and information technology applications as well as sustainable processes and products **Hemicelluloses and Lignin in Biorefineries** Jean-Luc Wertz,Magali Deleu,S  verine Copp  e,Aurore Richel,2017-10-16 Hemicelluloses and Lignin in Biorefineries provides an understanding of lignocellulosic biomass which is mainly composed of cellulose hemicelluloses and lignin It promotes the valorization of these molecules in the context of the bioeconomy and presents hemicelluloses and lignin which are generated in lignocellulosic biorefineries as the molecules of the future The viability of these molecules lies in their renewability and potential This book covers all aspects of hemicelluloses and lignin including structure biosynthesis extraction biodegradation and conversion The book also looks ahead to the socioeconomic and environmental value of biobased industry and emphasizes an understanding of the potential of lignocellulosic biomass **Environmental Transport Phenomena** A. Eduardo S  ez,James C. Baygents,2014-12-01 This book offers a detailed yet accessible introduction to transport phenomena It begins by explaining the underlying principles and mechanisms that govern mass transport and continues by tackling practical problems spanning all subdisciplines of environmental science and chemical engineering Assuming some knowledge of ordinary differential equations and a familiarity with basic fluid mechanics applications this classroom tested text addresses mass conservation and macroscopic mass balances placing a special emphasis on applications to environmental processes and presenting a mathematical framework for formulating and solving transport phenomena problems **Handbook of Clean Energy Systems, 6 Volume Set** Jinyue 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 Mitigation Technologies Efficiency Improvements and Waste Management Waste to Energy Volume 4 Intelligent Energy Systems Future Electricity Markets Diagnostic and Control of Energy Systems New Electric Transmission Systems Smart Grid and Modern Electrical Systems Energy Efficiency of Municipal Energy Systems Energy Efficiency of Industrial Energy Systems Consumer Behaviors Load Control and Management Electric Car and Hybrid Car Energy Efficiency Improvement Volume 5 Energy Storage Thermal Energy Storage Chemical Storage Mechanical Storage Electrochemical Storage Integrated Storage Systems Volume 6 Sustainability of Energy Systems Sustainability Indicators Evaluation Criteria and Reporting Regulation and Policy Finance and Investment Emission Trading Modeling and Analysis of Energy Systems Energy vs Development Low Carbon Economy Energy Efficiencies and Emission Reduction Key features Comprising over 3 500 pages in 6 volumes HCES presents a comprehensive overview of the latest research developments and practical applications throughout all areas of clean energy systems consolidating a wealth of information which is currently scattered across a wide variety of literature sources In addition to renewable energy systems HCES also covers processes for the efficient and clean conversion of traditional fuels such as coal oil and gas energy storage systems mitigation technologies for the reduction of environmental pollutants and the development of intelligent energy systems Environmental social and economic impacts of energy systems are also addressed in depth Published in full colour throughout Fully indexed with cross referencing within and between all six volumes Edited by leading researchers from academia and industry who are internationally renowned and active in their respective fields Published in print and online The online version is a single publication i e no updates available for one time purchase or through annual subscription

Sustainable Water Management Daniel H. Chen, 2016-10-14 While the world's population continues to grow the availability of water remains constant Facing the looming water crisis society needs to tackle strategic management issues as an integrated part of the solution toward water sustainability The first volume in the two volume set Sustainable Water Management and Technologies offers readers a practical and comprehensive look at such key water management topics as water resource planning and governance water infrastructure planning and adaption proper regulations and water scarcity and inequality It discusses best

management practices for water resource allocation ground water protection and water quality assurance especially for rural arid and underdeveloped regions of the world Timely topics such as drought ecosystem sustainability climate change and water management for shale oil and gas development are presented Discusses best practices for water resource allocation ground water protection and water quality assurance Offers chapters on urban rural arid and underdeveloped regions of the world Describes timely topics such as drought ecosystem sustainability climate change and water management for shale oil and gas development Covers water resource planning and governance water infrastructure planning and adaptation proper regulations and water scarcity and inequality Discusses water resource monitoring efficiency and quality management

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 Ionic Liquids Sanchayita Rajkhowa,Pardeep Singh,Anik Sen,Jyotirmoy Sarma,2023-12-27 Handbook of Ionic Liquids A one stop reference for researchers interested in ionic liquids and their applications Handbook of Ionic Liquids Fundamentals Applications and Sustainability constitutes an overview of the latest advances in ionic liquid chemistry It offers a comprehensive summary of the development history of ionic liquids their design and the diverse array of applications including green and sustainable synthesis catalysis drug development and medicine biotechnology materials science and electrochemistry The authors explain a variety of processes used to develop novel materials with ionic liquids and describe likely future developments using practical examples taken from contemporary research and development in the field The book includes discussions of biomass conversion CO₂ capture and more You ll also discover A thorough introduction to the theory of ionic liquids as well as their different types and recycling methods Comprehensive explorations of the physico chemical properties of ionic liquids Practical discussions of ionic liquid synthesis and analysis including green synthesis and heterocyclic chemistry applications Summary of the use of ionic liquids in materials science including polymers energy conversion and storage devices Perfect for organic catalytic physical analytical and environmental chemists Handbook of Ionic Liquids Fundamentals Applications and Sustainability will also benefit electrochemists materials scientists and biotechnologists with an interest in ionic liquids and their application **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 of storage transportation and delivery infrastructures *Encyclopedia of Sustainable Technologies* Martin

Abraham,2017-07-04 Encyclopedia of Sustainable Technologies Eight Volume Set provides an authoritative assessment of the sustainable technologies that are currently available or in development Sustainable technology includes the scientific understanding development and application of a wide range of technologies and processes and their environmental implications Systems and lifecycle analyses of energy systems environmental management agriculture manufacturing and digital technologies provide a comprehensive method for understanding the full sustainability of processes In addition the development of clean processes through green chemistry and engineering techniques are also described The book is the first multi volume reference work to employ both Life Cycle Analysis LCA and Triple Bottom Line TBL approaches to assessing the wide range of technologies available and their impact upon the world Both approaches are long established and widely recognized playing a key role in the organizing principles of this valuable work Provides readers with a one stop guide to the most current research in the field Presents a grounding of the fundamentals of the field of sustainable technologies Written by international leaders in the field offering comprehensive coverage of the field and a consistent high quality scientific standard Includes the Life Cycle Analysis and Triple Bottom Line approaches to help users understand and assess sustainable technologies **Bio-Clean Energy Technologies Volume 2** Pankaj Chowdhary,Soumya Pandit,Namita Khanna,2022-07-07

This edited book discusses the latest advancements in the area of biofuel development It covers extensive information regarding different aspects and types of 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 [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

Resource Recovery to Approach Zero Municipal Waste Mohammad J. 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

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 **The Palgrave Handbook of International Energy Economics** Manfred Hafner,Giacomo Luciani,2022-05-27 This open access handbook is distinguished by its emphasis on international energy rather than domestic energy policies or international geopolitic aspects Addressing key topics such as energy production and distribution renewables and corporate energy structures alongside global energy trends regional case studies and emerging areas such as the digitalization of energy and energy transition this handbook provides a major new contribution to the field of international energy economics Written by academics practitioners and policy makers this handbook is a valuable and timely addition to the literature on international energy economics This book was published open access with the support of Eni

Handbook of Research on Bioenergy and Biomaterials Leopoldo Javier Ríos González, José Antonio Rodríguez-De La Garza, Miguel Ángel Medina Morales, Cristóbal Noé Aguilar, 2021-12-22 The handbook provides an understanding of consolidated processing and biorefinery systems for the production of bio based chemicals and value added bioproducts from renewable sources The chapters look at a variety of bioenergy technological advances and improvements in the energy and materials sectors that aim to lower our dependence of fossil fuels and consequently reduce greenhouse gas GHG emissions The volume looks at a selection of processes for the production of energy and biomaterials including the Fischer Tropsch process gasification pyrolysis combustion fermentation from renewable sources such as plants animals and their byproducts and others Applications that are explored include transportation fuels biodiesel production wastewater treatment edible packaging bioplastics physical rehabilitation tissue engineering biomedical applications thermal insulation industrial value compounds and more All of the topics covered in this publication address consolidated processes that play a pivotal role in the production of bioenergy and biomaterials because these processes require fewer unitary operations needed in the process leading to a more direct method of production This type of production system contributes to decreasing negative effects on the environment lowering costs saving energy and time and improving profitability and efficiency This volume will be valuable for the industrial sector for researchers and scientists as well as for faculty and advanced students *Hydrogen Production from Nonrenewable Resources* Mohammad Reza Rahimpour, Mohammad Amin Makarem, Parvin Kiani, 2024-11-08 The conventional generation of a substantial quantity of hydrogen from resources based on fossil fuels continues to play an essential role in the hydrogen economy Hydrogen Production from Nonrenewable Resources offers a comprehensive overview and features three sections covering properties and characteristics of hydrogen technologies for converting nonrenewable sources to hydrogen and challenges in synthesis and production Details of thermophysical characteristics and properties of hydrogen Covers conventional and novel industrial technologies for efficient production Explores environmental opportunities and challenges and health and safety regulations Provides techno economic and lifecycle assessments with future outlooks Part of the multivolume Handbook of Hydrogen Production and Applications this standalone book guides researchers and academics in chemical environmental energy and related areas of engineering interested in the development

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