

WOODHEAD PUBLISHING SERIES IN ENERGY



HANDBOOK OF BIOFUELS PRODUCTION PROCESSES AND TECHNOLOGIES

THIRD EDITION



Edited by
**RAFAEL LUQUE, CAROL SZE KI LIN,
KAREN WILSON, CHENYU DU**

Handbook Of Biofuels Production Processes And Technologies

Robin Wiltshire



Handbook Of Biofuels Production Processes And Technologies :

Handbook of Biofuels Production Rafael Luque,Carol Sze Ki Lin,Karen Wilson,Chenyu Du,2022-12-05 Handbook of Biofuels Production Processes and Technologies Third Edition provides a comprehensive and systematic reference on a range of biomass conversion processes and technologies In response to the global increase in the use of biofuels as substitute transportation fuels advanced chemical biochemical and thermochemical biofuels production routes are quickly being developed Substantial additions for this new edition include increased coverage of emerging feedstocks including microalgae more emphasis on by product valorization for biofuels production additional chapters on emerging biofuel production methods and co production of biofuels and bioproducts The book s editorial team is strengthened by the addition of an extra member and a number of new contributors have been invited to work with authors from the first and second edition to revise existing chapters with each offering fresh perspectives This book is an essential reference for professional engineers in the biofuel industry as well as researchers in academia from post graduate level and up Provides systematic and detailed coverage of the processes and technologies being used in the production of first second and third generation biofuels Evaluates the latest advanced chemical biochemical and thermochemical technologies processes and production routes Takes an integrated biorefinery approach guiding readers through the production of biofuels and their co products in integrated biorefineries Includes videos of industrial production facilities and equipment showing how complex processes and reaction apparatus work in a lab and industry setting

Handbook of Biofuels Production Rafael Luque,Carol Sze Ki Lin,Karen Wilson,James Clark,2016-06-01 Handbook of Biofuels Production Second Edition discusses advanced chemical biochemical and thermochemical biofuels production routes that are fast being developed to address the global increase in energy usage Research and development in this field is aimed at improving the quality and environmental impact of biofuels production as well as the overall efficiency and output of biofuels production plants The book provides a comprehensive and systematic reference on the range of biomass conversion processes and technology Key changes for this second edition include increased coverage of emerging feedstocks including microalgae more emphasis on by product valorization for biofuels production additional chapters on emerging biofuel production methods and discussion of the emissions associated with biofuel use in engines The editorial team is strengthened by the addition of two extra members and a number of new contributors have been invited to work with authors from the first edition to revise existing chapters thus offering fresh perspectives Provides systematic and detailed coverage of the processes and technologies being used for biofuel production Discusses advanced chemical biochemical and thermochemical biofuels production routes that are fast being developed to address the global increase in energy usage Reviews the production of both first and second generation biofuels Addresses integrated biofuel production in biorefineries and the use of waste materials as feedstocks

Bioalcohol Production Keith W. Waldron,2010-05-24 Bioethanol is one of the main biofuels currently used as a petroleum substitute in transport

applications However conflicts over food supply and land use have made its production and utilisation a controversial topic Second generation bioalcohol production technology based on bio chemical conversion of non food lignocellulose offers potential advantages over existing energy intensive bioethanol production processes Food vs fuel pressures may be reduced by utilising a wider range of lignocellulosic biomass feedstocks including energy crops cellulosic residues and particularly wastes Bioalcohol production covers the process engineering technology modelling and integration of the entire production chain for second generation bioalcohol production from lignocellulosic biomass Primarily reviewing bioethanol production the book s coverage extends to the production of longer chain bioalcohols which will be elemental to the future of the industry Part one reviews the key features and processes involved in the pretreatment and fractionation of lignocellulosic biomass for bioalcohol production including hydrothermal and thermochemical pretreatment and fractionation to separate out valuable process feedstocks Part two covers the hydrolysis saccharification processes applicable to pretreated feedstocks This includes both acid and enzymatic approaches and also importantly covers the development of particular enzymes to improve this conversion step This coverage is extended in Part three with chapters reviewing integrated hydrolysis and fermentation processes and fermentation and co fermentation challenges of lignocellulose derived sugars as well as separation and purification processes for bioalcohol extraction Part four examines the analysis monitoring and modelling approaches relating to process and quality control in the pretreatment hydrolysis and fermentation steps of lignocellulose to bioalcohol production Finally Part five discusses the life cycle assessment of lignocellulose to bioalcohol production as well as the production of valuable chemicals and longer chain alcohols from lignocellulosic biomass With its distinguished international team of contributors Bioalcohol production is a standard reference for fuel engineers industrial chemists and biochemists plant scientists and researchers in this area Provides an overview of the life cycle assessment of lignocelluloses to bioalcohol production Reviews the key features and processes involved in the pre treatment and fractionation of lignocellulosic biomass for bioalcohol production Examines the analysis monitoring and modelling approaches relating to process and quality control in pre treatment hydrolysis and fermentation

Biolubricants Jan C.J. Bart,Emanuele Gucciardi,Stefano Cavallaro,2012-12-18 Lubricants are essential in engineering however more sustainable formulations are needed to avoid adverse effects on the ecosystem Bio based lubricant formulations present a promising solution Biolubricants Science and technology is a comprehensive interdisciplinary and timely review of this important subject Initial chapters address the principles of lubrication before systematically reviewing fossil and bio based feedstock resources for biodegradable lubricants Further chapters describe catalytic bio chemical functionalisation processes for transformation of feedstocks into commercial products product development relevant legislation life cycle assessment major product groups and specific performance criteria in all major applications Final chapters consider markets for biolubricants issues to consider when selecting and using a lubricant lubricant disposal and future trends With its distinguished authors

Biolubricants Science and technology is a comprehensive reference for an industrial audience of oil formulators and lubrication engineers as well as researchers and academics with an interest in the subject It provides an essential overview of scientific and technological developments enabling the cost effective improvement of biolubricants something that is crucial for the green future of the lubricant industry A comprehensive interdisciplinary and timely review of bio based lubricant formulations Addresses the principles of lubrication Reviews fossil and bio based feedstock resources for biodegradable lubricants

Bioenergy Research: Basic and Advanced Concepts Manish Srivastava,Neha

Srivastava,Rajeev Singh,2021-03-22 This volume is first part of the five part set on bioenergy research This volume covers current developments and both basic and advanced concepts in bioenergy production Based on bioenergy road map the book will also evaluate about the ratio existing between current challenges associated and practical implementation of these biofuels The book complies up to date progressive development in available bioenergy options and discusses opportunities and existing risks The main objective of the book is to provide insights into the opportunities and required actions for the development of an economically viable bioenergy industry for practical replacement of fossil fuels This book is of interest to teachers researchers scientists capacity builders and policymakers Also the book serves as additional reading material for undergraduate and graduate students of environmental sciences National and international bioenergy scientists policy makers will also find this to be a useful read Other four volumes of this set explore latest developments commercial opportunities waste to energy and integrated solution for bioenergy concerns

Biodiesel Science and Technology Jan

C.J. Bart,N Palmeri,Stefano Cavallaro,2010-02-19 Biodiesel production is a rapidly advancing field worldwide with biodiesel fuel increasingly being used in compression ignition diesel engines Biodiesel has been extensively studied and utilised in developed countries and it is increasingly being introduced in developing countries especially in regions with high potential for sustainable biodiesel production Initial sections systematically review feedstock resources and vegetable oil formulations including the economics of vegetable oil conversion to diesel fuel with additional coverage of emerging energy crops for biodiesel production Further sections review the transesterification process including chemical catalysis and biochemical biocatalysis processes with extended coverage of industrial process technology and control methods and standards for biodiesel fuel quality assurance Final chapters cover the sustainability performance and environmental issues of biodiesel production as well as routes to improve glycerol by product usage and the development of next generation products Biodiesel science and technology From soil to oil provides a comprehensive reference to fuel engineers researchers and academics on the technological developments involved in improving biodiesel quality and production capacity that are crucial to the future of the industry Evaluates biodiesel as a renewable energy source and documents global biodiesel development The outlook for biodiesel science and technology is presented exploring the challenges faced by the global diesel industry Reviews feedstock resources and vegetable oil formation including emerging crops and the agronomic potential of underexploited oil

crops *Sustainable Biofuels* Ramesh C. Ray, 2021-04-08 *Sustainable Biofuels Opportunities and challenges* a volume in the Applied Biotechnology Reviews series explores the state of the art in research and applied technology for the conversion of all types of biofuels Its chapters span a broad spectrum of knowledge from fundamentals and technical aspects to optimization combinations economics and environmental aspects They cover various facets of research production and commercialization of bioethanol biodiesel biomethane biohydrogen biobutanol and biojet fuel This book discusses biochemical thermochemical and hydrothermal conversion of unconventional feedstocks including the role of biotechnology applications to achieve efficiency and competitiveness Through case studies techno economic analysis and sustainability assessment including life cycle assessment it goes beyond technical aspects to provides actual resources for better decision making during the development of commercially viable technology by researchers PhD students and practitioners in the field of bioenergy It is also a useful resource for those in adjacent areas such as biotechnology industrial microbiology chemical engineering environmental engineering and sustainability science who are working on solutions for the bioeconomy The ability to compare different technologies and their outcome that this book provides is also beneficial for energy analysts consultants planners and policy makers The Applied Biotechnology Reviews series highlights current development and research in biotechnology related fields combining in single volume works the theoretical aspects and real world applications for better decision making Covers current technologies and advancements in biochemical thermochemical and hydrothermal conversion methods for production of various types of biofuels from conventional and nonconventional feedstock Examines biotechnology processes including genetic engineering of microorganisms and substrates applied to biofuel production Bridges the gap between technology development and prospects of commercialization of bioprocesses including policy and economics of biofuel production biofuel value chains and how to accomplish cost competitive results and sustainable development **Sustainable Energy from Salinity Gradients** Andrea Cipollina, Giorgio Micale, 2016-03-01 Salinity gradient energy also known as blue energy and osmotic energy is the energy obtainable from the difference in salt concentration between two feed solutions typically sea water and river water It is a large scale renewable resource that can be harvested and converted to electricity Efficient extraction of this energy is not straightforward however Sustainable Energy from Salinity Gradients provides a comprehensive review of resources technologies and applications in this area of fast growing interest Key technologies covered include pressure retarded osmosis reverse electrodialysis and accumulator mixing Environmental and economic aspects are also considered together with the possible synergies between desalination and salinity gradient energy technologies Sustainable Energy from Salinity Gradients is an essential text for R D professionals in the energy water industry interested in salinity gradient power and researchers in academia from post graduate level upwards For more than ten years the Editors have been sharing substantial research activities in the fields of renewable energy and desalination successfully participating to a number of European Union research projects and

contributing to the relevant scientific literature with more than 100 papers and 2 books on Desalination technologies and their coupling with Renewable Energy They are intensely working in the field of Salinity Gradient Power carrying out research with specific focus on open loop and closed loop reverse electrodialysis and pressure retarded osmosis Covers applications of pressure retarded osmosis reverse electrodialysis and capacitive mixing for salinity gradient power in one convenient volume Presents the environmental aspects and economics of salinity gradient energy Explores possible synergies between desalination and salinity gradient energy

Rechargeable Lithium Batteries Alejandro Franco, 2015-04-07

Rechargeable Lithium Batteries From Fundamentals to Application provides an overview of rechargeable lithium batteries from fundamental materials through characterization and modeling to applications The market share of lithium ion batteries is fast increasing due to their high energy density and low maintenance requirements Lithium air batteries have the potential for even higher energy densities a requirement for the development of electric vehicles and other types of rechargeable lithium battery are also in development After an introductory chapter providing an overview of the main scientific and technological challenges posed by rechargeable Li batteries Part One of this book reviews materials and characterization of rechargeable lithium batteries Part Two covers performance and applications discussing essential aspects such as battery management battery safety and emerging rechargeable lithium battery technologies as well as medical and aerospace applications Expert overview of the main scientific and technological challenges posed by rechargeable lithium batteries Address the important topics of analysis characterization and modeling in rechargeable lithium batteries Key analysis of essential aspects such as battery management battery safety and emerging rechargeable lithium battery technologies

Safe and Secure Transport and Storage of Radioactive Materials Ken Sorenson, 2015-07-24 Safe and Secure

Transport and Storage of Radioactive Materials reviews best practice and emerging techniques in this area The transport of radioactive materials is an essential operation in the nuclear industry without which the generation of nuclear power would not be possible Radioactive materials also often need to be stored pending use treatment or disposal Given the nature of radioactive materials it is paramount that transport and storage methods are both safe and secure A vital guide for managers and general managers in the nuclear power and transport industries this book covers topics including package design safety security mechanical performance radiation protection and shielding thermal performance uranium ore fresh fuel uranium hexafluoride MOX plutonium and more Uniquely comprehensive and systematic coverage of the packaging transport and storage of radioactive materials Section devoted to spent nuclear fuels Expert team of authors and editors

Superconductors in the Power Grid C. Rey, 2015-04-20 Superconductors offer high throughput with low electric losses

and have the potential to transform the electric power grid Transmission networks incorporating cables of this type could for example deliver more power and enable substantial energy savings Superconductors in the Power Grid Materials and Applications provides an overview of superconductors and their applications in power grids Sections address the design and

engineering of cable systems and fault current limiters and other emerging applications for superconductors in the power grid as well as case studies of industrial applications of superconductors in the power grid Expert editor from highly respected US government funded research centre Unique focus on superconductors in the power grid Comprehensive coverage

Microbial Electrochemical and Fuel Cells Keith Scott, Eileen Hao Yu, 2015-11-25 Microbial Electrochemical and Fuel Cells Fundamentals and Applications contains the most updated information on bio electrical systems and their ability to drive an electrical current by mimicking bacterial interactions found in nature to produce a small amount of power One of the most promising features of the microbial fuel cell is its application to generate power from wastewater and its use in the treatment of water to remove contaminants making it a very sustainable source of power generation that can feasibly find application in rural areas where providing more conventional sources of power is often difficult The book explores in detail both the technical aspects and applications of this technology and was written by an international team of experts in the field who provide an introduction to microbial fuel cells that looks at their electrochemical principles and mechanisms explains the materials that can be used for the various sections of the fuel cells including cathode and anode materials and provides key analysis of microbial fuel cell performance looking at their usage in hydrogen production waste treatment and sensors amongst other applications Includes coverage of the types and principles of electrochemical cells Provides information on the construction of fuel cells and appropriate materials Presents the latest on this renewable source of energy and the process for the treatment of waste water

Environmental Remediation and Restoration of Contaminated Nuclear and NORM Sites L van Velzen, 2015-02-02 Nuclear sites become contaminated with radionuclides due to accidents and activities carried out without due consideration for the environment Naturally occurring radioactive materials NORM released by industrial processes such as coal power production and fertilizer manufacture may also require clean up Environmental remediation and restoration aim to reduce exposure to radiation from contaminated soil or groundwater This book provides a comprehensive overview of this area Part 1 provides an introduction to the different types of contaminated site and their characteristics Part 2 addresses environmental restoration frameworks and processes Part 3 then reviews different remediation techniques and methods of waste disposal Explores types and characteristics of contaminated nuclear and NORM sites Provides an in depth guide to environmental restoration frameworks and processes including stakeholder involvement risk assessment and cost benefit analysis in the remediation and restoration of contaminated nuclear and NORM sites Offers coverage of remediation techniques and waste disposal from electrokinetic remediation to in situ and ex situ bioremediation of radionuclides contaminated soils

Reprocessing and Recycling of Spent Nuclear Fuel Robin Taylor, 2015-04-18 Reprocessing and Recycling of Spent Nuclear Fuel presents an authoritative overview of spent fuel reprocessing considering future prospects for advanced closed fuel cycles Part One introduces the recycling and reprocessing of spent nuclear fuel reviewing past and current technologies the possible implications of Generation IV nuclear

reactors and associated safety and security issues Parts Two and Three focus on aqueous based reprocessing methods and pyrochemical methods while final chapters consider the cross cutting aspects of engineering and process chemistry and the potential for implementation of advanced closed fuel cycles in different parts of the world Expert introduction to the recycling and reprocessing of spent nuclear fuel Detailed overview of past and current technologies the possible implications of Generation IV nuclear reactors and associated safety and security issues A lucid exploration of aqueous based reprocessing methods and pyrochemical methods *Advances in Ground-Source Heat Pump Systems* Simon Rees,2016-05-13 *Advances in Ground Source Heat Pump Systems* relates the latest information on source heat pumps GSHPs the types of heating and or cooling systems that transfer heat from or to the ground or less commonly a body of water As one of the fastest growing renewable energy technologies they are amongst the most energy efficient systems for space heating cooling and hot water production with significant potential for a reduction in building carbon emissions The book provides an authoritative overview of developments in closed loop GSHP systems surface water open loop systems and related thermal energy storage systems addressing the different technologies and component methods of analysis and optimization among other subjects Chapters on building integration and hybrid systems complete the volume Provides the geological aspects and building integration covered together in one convenient volume Includes chapters on hybrid systems Presents carefully selected chapters that cover areas in which there is significant ongoing research Addresses geothermal heat pumps in both heating and cooling modes *Structural Materials for Generation IV Nuclear Reactors* Pascal Yvon,2016-08-27 Operating at a high level of fuel efficiency safety proliferation resistance sustainability and cost generation IV nuclear reactors promise enhanced features to an energy resource which is already seen as an outstanding source of reliable base load power The performance and reliability of materials when subjected to the higher neutron doses and extremely corrosive higher temperature environments that will be found in generation IV nuclear reactors are essential areas of study as key considerations for the successful development of generation IV reactors are suitable structural materials for both in core and out of core applications *Structural Materials for Generation IV Nuclear Reactors* explores the current state of the art in these areas Part One reviews the materials requirements and challenges in generation IV systems Part Two presents the core materials with chapters on irradiation resistant austenitic steels ODS FM steels and refractory metals amongst others Part Three looks at out of core materials *Structural Materials for Generation IV Nuclear Reactors* is an essential reference text for professional scientists engineers and postgraduate researchers involved in the development of generation IV nuclear reactors Introduces the higher neutron doses and extremely corrosive higher temperature environments that will be found in generation IV nuclear reactors and implications for structural materials Contains chapters on the key core and out of core materials from steels to advanced micro laminates Written by an expert in that particular area **Waste to Energy Conversion Technology** Naomi B Klinghoffer,Marco J Castaldi,2013-05-15 Increasing global consumerism and population has led to an

increase in the levels of waste produced Waste to energy WTE conversion technologies can be employed to convert residual wastes into clean energy rather than sending these wastes directly to landfill Waste to energy conversion technology explores the systems technology and impacts of waste to energy conversion Part one provides an introduction to WTE conversion and reviews the waste hierarchy and WTE systems options along with the corresponding environmental regulatory and techno economic issues facing this technology Part two goes on to explore further specific aspects of WTE systems engineering and technology and includes chapters on municipal solid waste MSW combustion plants and WTE systems for district heating Finally part three highlights pollution control systems for waste to energy technologies Waste to energy conversion technology is a standard reference book for plant managers building engineers and consultants requiring an understanding of WTE technologies and researchers scientists and academics interested in the field Reviews the waste hierarchy and waste to energy systems options along with the environmental and social impact of WTE conversion plants Explores the engineering and technology behind WTE systems including considerations of municipal solid waste MSW its treatment combustion and gasification Considers pollution control systems for WTE technologies including the transformation of waste combustion facilities from major polluters to pollution sinks

Small Modular Reactors Daniel T Ingersoll, 2015-11-20 There is currently significant interest in the development of small modular reactors SMRs for the generation of both electricity and process heat SMRs offer potential benefits in terms of better affordability and enhanced safety and can also be sited more flexibly than traditional nuclear plants Small Modular Reactors Nuclear Power Fad or Future reviews SMR features promises and problems also discussing what lies ahead for reactors of this type The book is organized into three major parts with the first part focused on the role of energy especially nuclear energy for global development It also provides a brief history of SMRs The second major part presents basic nuclear power plant terminology and then discusses in depth the attributes of SMRs that distinguish them from traditional nuclear plants The third and final major section discusses the current interest in SMRs from a customer's perspective and delineates several remaining hurdles that must be addressed to achieve wide spread SMR deployment Provides decision makers in governments business and research with the needed background on small nuclear power and an overview of the current situation Presents a balanced discussion of the many advantages of SMRs and the challenges they face Written by a highly respected expert in the nuclear industry

Advanced District Heating and Cooling (DHC) Systems Robin Wiltshire, 2015-08-31 Advanced District Heating and Cooling DHC Systems presents the latest information on the topic providing valuable information on the distribution of centrally generated heat or cold energy to buildings usually in the form of space heating cooling and hot water As DHC systems are more efficient and less polluting than individual domestic or commercial heating and cooling systems the book provides an introduction to DHC including its potential contribution to reducing carbon dioxide emissions then reviews thermal energy generation for DHC including fossil fuel based technologies those based on renewables and surplus heat

valorization Final sections address methods to improve the efficiency of DHC Gives a comprehensive overview of DHC systems and the technologies and energy resources utilized within these systems Analyzes the various methods used for harnessing energy to apply to DHC systems Ideal resource for those interested in district cooling teleheating heat networks distributed heating thermal energy cogeneration combined heat and power and CHP Reviews the application of DHC systems in the field including both the business model side and the planning needed to implement these systems *Lignocellulose Biorefinery Engineering* Hongzhang Chen, 2015-03-03 Biomass resources and their refining are key research topics internationally as alternatives to fossil fuel resources and oil refining This book explores the heterogeneous nature of lignocellulosic biomass which restricts its use as a raw material and describes the theoretical basis of the lignocellulose refinery It puts forward the theory of the integrated biomass refinery system which produces multiple products including biofuels biomaterials biochemicals food and feed based on careful fractionation of the raw material Chapter 1 introduces the significance and development of lignocellulose biorefining Chapter 2 gives the theoretical basis of lignocellulose biorefinery engineering Chapters 3 to 6 describe in detail biomass refinery engineering from the perspectives of feedstocks conversions products and processes respectively Models of integrated industrial biomass refinery chains are presented in Chapter 7 Finally Chapter 8 considers future trends in lignocellulose biorefining Explores mechanisms of selective fractionation of biomass based on biomass structural characteristics and product requirements Addresses biological physical and chemical conversion technologies as well as combinations of different methods based on the biomass material characteristics This thorough exploration of lignocellulose biorefining is written by an expert from a key research institute in this field

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