

CARBON-NEUTRAL FUELS AND ENERGY CARRIERS

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Carbon Neutral Fuels And Energy Carriers Green Chemistry And Chemical Engineering

I. M. Mujtaba, R. Srinivasan, N. O. Elbashir



Carbon Neutral Fuels And Energy Carriers Green Chemistry And Chemical Engineering:

Carbon-Neutral Fuels and Energy Carriers Nazim Z. Muradov, T. Veziroğlu, 2016-04-19 Concerns over an unstable energy supply and the adverse environmental impact of carbonaceous fuels have triggered considerable efforts worldwide to find carbon free or low carbon alternatives to conventional fossil fuels Carbon Neutral Fuels and Energy Carriers emphasizes the vital role of carbon neutral energy sources transportation fuels and associated technologies for establishing a sustainable energy future Each chapter draws on the insight of world renowned experts in such diverse fields as photochemistry and electrochemistry solar and nuclear energy biofuels and synthetic fuels carbon sequestration and alternative fuel vehicles After an introductory chapter on different energy options in a carbon constrained world and proposed measures to stabilize atmospheric CO₂ the book analyzes the advantages and challenges facing the introduction of hydrogen fuel to the marketplace It then examines the role of nuclear power in the production of carbon free energy and fuels as well as the efficient use and storage of renewable energy resources emphasizing the production of solar fuels from water and CO₂ The book also discusses different aspects of bioenergy and biofuels production and use and the potential role of bio inspired energy systems and industrial processes The final chapters present a thorough overview and analysis of state of the art fossil fuel decarbonization technologies and clean transportation options This authoritative work provides the information needed to make more informed choices regarding available clean energy and fuel alternatives It helps readers to better understand the interconnection between energy and the environment as well as the potential impact of human activities on climate

Efficiency and Sustainability in the Energy and Chemical Industries Krishnan Sankaranarayanan, 2023-09-05 Using classic thermodynamic principles as the point of departure this new edition of a popular resource supplies the understanding and tools required to measure process efficiency and sustainability with much improved accuracy Exploring the driving forces in the chemical and power industries Efficiency and Sustainability in the Energy and Chemical Industries Scientific Principles and Case Studies Third Edition investigates why losses occur and explains how to reduce them It focuses on the changing roles of refining and chemicals in industry and how the industry is transforming itself and considers economics as a key enabler to look at technology choices and whether shareholder returns will be there Includes new chapters on plastics recycling technologies and challenges low carbon energy sources the changing energy mix and project economics taxes and subsidies Illustrates techniques with wide ranging case studies related to energy conversion mining and the chemical industries as well as examples and problems Considers engineering layouts that reduce the environmental impact of chemical operations Explains how to use energy analysis to accurately assess the quality and performance of chemical processes Supplies quantitative tools for analyzing sustainability and efficiency Investigates the challenges of the hydrogen economy and CO₂ and low carbon Discusses plastics recycling economics and a changing energy mix Complete with the keys to quantification of process efficiency and sustainability this cutting edge book is the ideal guide for those engaged in the

transition from fossil based fuels to renewable and sustainable energy sources using low waste procedures **Optimization for Energy Systems and Supply Chains** Viknesh Andiappan,Denny K S Ng,Santanu Bandyopadhyay,2022-12-08 To curb the impacts of rising CO2 emissions the Intergovernmental Panel on Climate Change report states that a net zero target needs to be achieved by the year 2055 Experts argue that this is a critical time to make important and accurate decisions Thus it is essential to have the right tools to efficiently plan and deploy future energy systems and supply chains Mathematical models can provide decision makers with the tools required to make well informed decisions relating to development of energy systems and supply chains This book provides an understanding of the various available energy systems the basics behind mathematical models the steps required to develop mathematical models and examples case studies where such models are applied Divided into two parts one covering basics for beginners and the other featuring contributed chapters offering illustrative examples this book Shows how mathematical models are applied to solve problems in energy systems and supply chains Provides fundamentals of the working principles of various energy systems and their technologies Offers basics of how to formulate and best practices for developing mathematical models topics not covered in other titles Features a wide range of case studies Teaches readers to develop their own mathematical models to make decisions on energy systems This book is aimed at chemical process mechanical and energy engineers Catalysis for Green Energy and Technology Samira Bagheri,2017-06-28 This book describes the importance of catalysis for the sustainable production of biofuels and biochemicals focusing primarily on the state of the art catalysts and catalytic processes expected to play a decisive role in the green production of fuels and chemicals from biomass The book also includes general sections exploring the entire chain of biomass production conversion environment economy and life cycle assessment *Integrated Biorefineries* Paul R. Stuart,Mahmoud M. El-Halwagi,2012-12-10 Integrated Biorefineries Design Analysis and Optimization examines how to create a competitive edge in biorefinery innovation through integration into existing processes and infrastructure Leading experts from around the world working in design synthesis and optimization of integrated biorefineries present the various aspects of this complex The Water-Food-Energy Nexus I. M. Mujtaba,R. Srinivasan,N. O. Elbashir,2017-09-11 Exponential growth of the worldwide population requires increasing amounts of water food and energy However as the quantity of available fresh water and energy sources directly affecting cost of food production and transportation diminishes technological solutions are necessary to secure sustainable supplies In direct response to this reality this book focuses on the water energy food nexus and describes in depth the challenges and processes involved in efficient water and energy production and management wastewater treatment and impact upon food and essential commodities The book is organized into 4 sections on water food energy and the future of sustainability highlighting the interplay among these topics The first section emphasizes water desalination water management and wastewater treatment The second section discusses cereal processing sustainable food security bioenergy in food production water and energy

consumption in food processing and mathematical modeling for food undergoing phase changes The third section discusses fossil fuels biofuels synthetic fuels renewable energy and carbon capture Finally the book concludes with a discussion of the future of sustainability including coverage of the role of molecular thermodynamics in developing processes and products green engineering in process systems petrochemical water splitting petrochemical approaches to solar hydrogen generation design and operation strategy of energy efficient processes and the sustainability of process supply chain and enterprise

Lithium-Ion Batteries Xianxia Yuan,Hansan Liu,Jiujun Zhang,2016-04-19 Written by a group of top scientists and engineers in academic and industrial R D Lithium Ion Batteries Advanced Materials and Technologies gives a clear picture of the current status of these highly efficient batteries Leading international specialists from universities government laboratories and the lithium ion battery industry share their knowledge and insights on recent advances in the fundamental theories experimental methods and research achievements of lithium ion battery technology Along with coverage of state of the art manufacturing processes the book focuses on the technical progress and challenges of cathode materials anode materials electrolytes and separators It also presents numerical modeling and theoretical calculations discusses the design of safe and powerful lithium ion batteries and describes approaches for enhancing the performance of next generation lithium ion battery technology Due to their high energy density high efficiency superior rate capability and long cycling life lithium ion batteries provide a solution to the increasing demands for both stationary and mobile power With comprehensive and up to date information on lithium ion battery principles experimental research numerical modeling industrial manufacturing and future prospects this volume will help you not only select existing materials and technologies but also develop new ones to improve battery performance

Managing Biogas Plants Mario Alejandro Rosato,2017-08-15 This practical manual provides basic theoretical knowledge about fermentative processes biochemical laboratory techniques and an arsenal of practical tricks recipes do s and don ts for the biogas plant manager It explains why some popular tests and techniques are unreliable how to optimize the feedstock s cost and the energy self consumption of the digester and how to analyze experimental error propagation and judge whether a marketing claim or a test result from the literature is correct All examples are taken from the author s experience as consultant in managing biogas plants in Italy and Spain It features a glossary of technical jargon and useful reference tables and formulae By following the procedures described in this manual anybody can learn in short time how to become a bacteria farmer

Hydrogen Safety Fotis Rigas,2024-09-20 While hydrogen is of vital and growing importance in many industrial sectors this volatile substance poses unique challenges including easy leakage low ignition energy a wide range of combustible fuel air mixtures buoyancy and its ability to embrittle metals that are required to ensure safe operation Updated to include the latest advances in the decade since original publication Hydrogen Safety Second Edition highlights physiological physical and chemical hazards associated with hydrogen production storage distribution and usage systems Focused on providing a balanced view of hydrogen safety one that integrates principles from physical sciences

engineering management and social sciences this book is organized to address questions associated with the hazards of hydrogen and the ensuing risks associated with its industrial and public use This book Addresses issues of inherently safer design safety management systems and safety culture Features updated case studies of significant accidents involving hydrogen along with their detailed analysis and lessons learnt and potential accident scenarios under certain conditions Details current research trends and perspectives on materials based hydrogen storage solutions hydrogen use in vehicles and hydrogen in construction materials Describes Process Safety Management as applied to the process industries in conjunction with the components of the US Department of Energy Safety Plant Elements for hydrogen safety and covers activities of the European Commission EC Network of Excellence for Hydrogen Safety HySafe Includes updated codes for gaseous and liquefied hydrogen and the NFPA 2 Hydrogen Technologies Code Concludes with research and legal requirements Offering a holistic view of hydrogen safety from properties to safety systems this book helps readers in chemical industrial safety and related engineering subjects ensure a safe application and environment *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

Water Management Iqbal M. Mujtaba,Thokozani Majozi,Mutiu Kolade Amosa,2018-11-05 Exponential growth in population and improved standards of living demand increasing amount of freshwater and are putting serious strain on the quantity of naturally available freshwater worldwide *Water Management Social and Technological Perspectives* discusses developments in energy efficient water production management wastewater treatment and social and political aspects related to water management and re use of treated water It features a scientific and technological perspective to meeting current and future needs discussing such technologies as membrane separation using reverse osmosis the use of nanoparticles for adsorption of impurities from wastewater and the use of thermal methods for desalination The book also

discusses increasing the efficiency of water usage in industrial agricultural and domestic applications to ensure a sustainable system of water production usage and recycling With 30 chapters authored by internationally renowned experts this work offers readers a comprehensive view of both social and technological outlooks to help solve this global issue

Materials in Biology and Medicine Sunggyu Lee,David Henthorn,2012-03-21 While the interdisciplinary field of materials science and engineering is relatively new remarkable developments in materials have emerged for biological and medical applications from biocompatible polymers in medical devices to the use of carbon nanotubes as drug delivery vehicles Exploring these materials and applications Materials in Biology and Medicine presents the background and real world examples of advanced materials in biomedical engineering biology and medicine With peer reviewed chapters written by a select group of academic and industry experts the book focuses on biomaterials and bioinspired materials functional and responsive materials controlling biology with materials and the development of devices and enabling technologies It fully describes the relevant scientific background and thoroughly discusses the logical sequences of new development and applications Presenting a consistent scientific treatment of all topics this comprehensive yet accessible book covers the most advanced materials used in biology and medicine It will help readers tackle challenges of novel materials carry out new process and product development projects and create new methodologies for applications that enhance the quality of life

Particle Technology and Applications Sunggyu Lee,Kimberly H. Henthorn,2016-04-19 Particle Technology and Applications presents the theoretical and technological background of particle science and explores up to date applications of particle technologies in the chemical petrochemical energy mechanical and materials industries It looks at the importance of particle science and technology in the development of efficient chemi

Process Integration for Resource Conservation Dominic C.Y. Foo,2016-04-05 To achieve environmental sustainability in industrial plants resource conservation activities such as material recovery have begun incorporating process integration techniques for reusing and recycling water utility gases solvents and solid waste Process Integration for Resource Conservation presents state of the art cost effective techniques

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

Process Integration for Resource Conservation Dominic C.Y. Foo, 2025-01-31 To achieve environmental sustainability in industrial plants resource conservation activities such as material recovery have begun incorporating process integration techniques for reusing and recycling water utility gases solvents and solid waste Process Integration for Resource Conservation presents state of the art cost effective techniques including pinch analysis and mathematical optimization for numerous conservation problems The second edition of this best seller adds new chapters on heat integration and retrofitting of resource conservation networks and features multiple optimization examples via downloadable MS Excel spreadsheets Emphasizes the goal of setting performance targets ahead of detailed design following the holistic philosophy of process integration Explains various industrial examples step by step and offers demo software and other materials online Features a wealth of industrial case studies Adds chapters on heat integration combined heat and power heat integrated water network and retrofit of resource conservation network Adds new optimization examples and downloadable MS Excel files on superstructural approaches and automated targeting models for direct reuse recycle and regeneration Ideal for students preparing for real world work as well as industrial practitioners in chemical processing the text provides a systematic guide to the latest process integration techniques for performing material recovery in process plants The book features a solutions manual lecture slides and figure slides for adopting professors to use in their courses

Environmental Transport Phenomena A. Eduardo Saez, 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 *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 *Sustainable Entrepreneurship, Renewable Energy-Based Projects, and Digitalization* Amina Omrane, Khalil Kassmi, Muhammad Wasim Akram, Ashish Khanna, Md Imtiaz Mostafiz, 2020-12-27 *Sustainable Entrepreneurship* is nowadays considered as a discipline at the cross roads of many others This book describes recent cases techniques and tools proposed for leaders entrepreneurs and practitioners who are involved and responsible for making strategic decisions in their companies and aiming at sustainable development This book highlights the use of new business models methods that can be employed by organizations and researchers to save millions of dollars to enhance the economic growth as well as to resolve environmental and social issues via sustainable networks renewal energy distribution and social green entrepreneurship It will provide a comprehensive discussion of practical techniques like Machine Learning Robotics Photovoltaic solar energy in the field of renewable energy and other digital tools such as digital marketing crowdsourcing platforms and digital currency Meanwhile it will enlighten the way for entrepreneurs and decision makers by helping them to learn how to grow their business The focus will be on how to benefit from these techniques to develop sustainable and renewable energy based projects as well as digitalized new ventures The book walks the reader through the latest emerging trends in digitalization that can support practitioners managers entrepreneurs and researchers to help them appreciate the application of sustainable solutions in various functional domains **Hydrogen Energy and Vehicle Systems** Scott E. Grasman, 2016-04-19 With contributions from noted laboratory scientists professors and engineers *Hydrogen Energy and Vehicle Systems* presents a new comprehensive approach for applying hydrogen based technologies to the transportation and electric power generation sectors It shows how these technologies can improve the efficiency and reliability of energy and trans

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