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Carbon Membrane Technology BoD - Books on Demand

Zero Emission Buildings shows what can be achieved when researchers and practitioners work together to develop the building performance level of tomorrow that is needed today. This book is based on the research and development activities performed in the Research Centre on Zero Emission Buildings (the ZEB Centre) from 2009 to 2017. Emissions of CO₂ and other greenhouse gases must be reduced to limit global warming. Thus, the goal of the ZEB Centre has been to develop knowledge, competitive products, and solutions for existing and new buildings whose production, operation, and demolition give zero emissions of greenhouse gases, while also considering the users' needs for comfort and flexibility. The results presented here are based on research, as well as experience, from the development of nine real demonstration buildings. The key knowledge areas needed when designing, building, and operating zero emission buildings is discussed in detail. This book should be read by students of architecture and engineering, as well as practitioners looking for ways to contribute to a sustainable future. [Subject: Architecture, Environmental Studies, Sustainability & Green Design]

Constraints and Opportunities for Sustainable Development CRC Press

Plant Sciences Reviews 2011 provides scientists and students in the field with timely analysis on key topics in current research. Originally published online in CAB Reviews, this volume makes available in printed form the reviews in plant sciences published during 2011.

Reaching Zero with Renewables Springer Nature

In 2014 NCM initiated a new project: "Test centers for green energy solutions - Biorefineries and Business needs" to strengthen Nordic bioeconomy by identifying potentials, obstacles, needs and opportunities. The Nordic bioeconomy has a unique profile: Upgrade of many types of residues also to higher value products; good collaboration between private and public sector; R&D efforts in all Nordic countries. However, shortcomings were also identified: few activities across Nordic countries beyond designated Nordic programs; too few upscaling facilities; need for improved framework conditions (within regulatory and market stimulus) for biobased products. This report is part of the Nordic Prime Ministers' green growth initiative: "The Nordic Region - leading in green growth" - read more in the web magazine "Green Growth the Nordic Way" at www.nordicway.org or at www.norden.org/greengrowth

Biofuels Production and Processing Technology Routledge

The importance of biofuels in greening the transport sector in the future is unquestionable, given the limited available fossil energy resources, the environmental issues associated to the utilization of fossil fuels, and the increasing attention to security of supply. This comprehensive reference presents the latest technology in all aspects of biofuels production, processing, properties, raw materials, and related economic and environmental aspects. Presenting the application of methods and technology with minimum math and theory, it compiles a wide range of topics not usually covered in one single book. It discusses development of new catalysts, reactors, controllers, simulators, online analyzers, and waste minimization as well as design and operational aspects of processing units and financial and economic aspects. The book rounds out by describing properties, specifications, and quality of various biofuel products and new advances and trends towards future technology.

The Connectivity of Innovation in the Construction Industry CRC Press

Local Electricity Markets introduces the fundamental characteristics, needs, and constraints shaping the design and implementation of local electricity markets. It addresses current proposed local market models and lessons from their limited practical implementation. The work discusses relevant decision and informatics tools considered important in the implementation of local electricity

markets. It also includes a review on management and trading platforms, including commercially available tools. Aspects of local electricity market infrastructure are identified and discussed, including physical and software infrastructure. It discusses the current regulatory frameworks available for local electricity market development internationally. The work concludes with a discussion of barriers and opportunities for local electricity markets in the future. Delineates key components shaping the design and implementation of local electricity market structure Provides a coherent view on the enabling infrastructures and technologies that underpin local market expansion Explores the current regulatory environment for local electricity markets drawn from a global panel of contributors Exposes future paths toward widespread implementation of local electricity markets using an empirical review of barriers and opportunities Reviews relevant local electricity market case studies, pilots and demonstrators already deployed and under implementation

Combined Aquaculture and Hydroponic Production Technologies for the Future Nordic Council of Ministers

The Role of Catalysis for the Sustainable Production of Bio-fuels and Bio-chemicals describes the importance of catalysis for the sustainable production of biofuels and biochemicals, focused 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. In addition, the book includes general elements regarding the entire chain of biomass production, conversion, environment, economy, and life-cycle assessment. Very few books are available on catalysis in production schemes using biomass or its primary conversion products, such as bio-oil and lignin. This book fills that gap with detailed discussions of: Catalytic pyrolysis of lignocellulosic biomass Hybrid biogasoline by co-processing in FCC units Fischer-Tropsch synthesis to biofuels (biomass-to-liquid process) Steam reforming of bio-oils to hydrogen With energy prices rapidly rising, environmental concerns growing, and regulatory apparatus evolving, this book is a resource with tutorial, research, and technological value for chemists, chemical engineers, policymakers, and students. Includes catalytic reaction mechanism schemes and gives a clear understanding of catalytic processes Includes flow diagrams of bench-, pilot- and industrial-scale catalytic processing units and demonstrates the various process technologies involved, enabling easy selection of the best process Incorporates many tables, enabling easy comparison of data based on a critical review of the available literature

Energy Research Abstracts Nordic Council of Ministers

This book examines the bioeconomy concept, analysing the opportunities it can generate, the constraints and the potential benefits for society. The main objective of bioeconomy is to promote economic development, by creating jobs and enhancing the sustainable utilization of bio-resources. A primary driver of bioeconomy strategy, therefore, is the need to respond to the growing population's food and economic requirements. While today research and literature related to bioeconomy are limited, this book presents a unique collection of perspectives on the complex dimensions of the bioeconomy debate. Drawing on the experiences from Europe, Asia and Africa, it presents an international overview. The chapters address a wide range of issues, including coastal-land interactions, ecosystem services, food production, rural development, agriculture, forest management and bioenergy. As a whole, the volume outlines what role bioeconomy can play in contributing to the United Nations Sustainable Development Goals (SDGs) without compromising on the ecological sustainability and equitable distribution of benefits. The book concludes by providing recommendations for developing bioeconomy in respective sectors (agriculture, forestry, fisheries, renewable energy) and directions for planning future bioeconomy programmes and strategies. The Bioeconomy Approach will be of great interest to students and scholars of ecological economics, development economics and environmental economics, as well as policy-makers and practitioners involved in sustainable development.

Local Electricity Markets Academic Press

The construction industry is currently experiencing accelerating developments concerning societal demands along with project complexity, internationalization and digitalization. In an attempt to grasp the consequences of these demands on productivity and innovation, this edited book addresses how innovation is likely to take place with a more long-term perspective on the construction sector. While existing literature focuses on organizational discontinuity and fragmentation as the main reasons for the apparent lack of innovation in the industry, this book highlights the connectivity of construction actors, resources and activities as fundamental for understanding how innovation takes place. Through 15 empirically grounded chapters, the book shows how innovation is part of construction processes on various levels, including project, firm and industry, and that these innovation processes are characterized by organizational and technological connectivity over time. Written by European business management scholars, the chapters cover empirical cases and examples from both a multi-organizational and a multi-international perspective in terms of covering the viewpoints of different industry actors and the contexts of several different European countries including: Sweden, Norway, the UK, Italy, France, Hungary and Poland. By illustrating how connectivity is part of innovation processes in the creation of single-product innovations, of various innovations within and across projects, as well as a fundamental aspect of the processes in which innovations cross nations, the book provides a new angle on how to understand construction innovation and where the industry might (or needs to) be heading next. This book is essential reading for anyone interested in construction management, project management, engineering management, innovation studies, business and management studies.

Sustainable Utilization of Natural Resources Newnes

This open access book on straw management aims to provide a wide array of options for rice straw management that are potentially more sustainable, environmental, and profitable compared to current practice. The book is authored by expert researchers, engineers and innovators working on a range of straw management options with case studies from Vietnam, the Philippines and Cambodia. The book is written for engineers and researchers in order to provide them information on current good practice and the gaps and constraints that require further research and innovation. The book is also aimed at extension workers and farmers to help them decide on the best alternative straw management options in their area by presenting both the technological options as well as the value chains and business models required to make them work. The book will also be useful for policy makers, required by public opinion to reduce greenhouse gas emissions and air pollution, looking for research-based evidence to guide the policies they develop and implement.

Biofuel's Engineering Process Technology Cambridge University Press

Production and utilization of sustainable energy toward maintaining a clean environment is a major challenge. At the same time, the continued depletion of fossil fuels and the global dependency on non-renewable fuels is a chief concern. Moreover, the long-term economic and environmental issues associated with the high utilization of fossil fuel, such as global warming, are also important, particularly in the context of the predicted increase in the global population to around 5 billion by 2050. In recent years, researchers have been investigating alternative, renewable fuels to replace fossil fuels. Of the various options, biofuels are especially attractive due to their low production costs and the fact that they are pollution free. Also known as transportation fuels, their energy is derived from biological resources or through the biological processes. Biofuels such as biohydrogen, biomethane, biogas, ethanol and butanol offer a number of advantages and can be economically produced from cellulosic biomass. As such, they can play a vital role in sustainably meeting future energy demands. Biofuels have the potential to become a global primary energy source, offering significant reductions in greenhouse gas emissions as well as opportunities to increase economic and social development in rural communities and reduce the problems associated with waste disposal. However, low yields and lack of process technology are some of the aspects that need to be addressed. This book offers an overview of existing biofuels and the technologies to solve the problems associated with their practical implementation. Evaluating the biofuel options and discussing the opportunities and risks in relation to resources, technologies, practices, markets and policy, it provides insights into the development of economically viable bioenergy industries.

Carbon Dioxide Utilization to Sustainable Energy and Fuels IGI Global

Carbon membranes have great advantages of strong mechanical strength and high chemical stabilities, as well as high separation performance to reach the industrial attractive region. Further improvement on membrane performance can potentially offset the relatively high production cost compared to polymeric membranes. However, there are still some challenges related to fabrication of asymmetric carbon membranes, the controlling of structure and pore-size and module up-scaling for commercial application. The aim of this book is to provide the fundamentals on carbon membrane materials for the young researchers and engineers to develop frontier membrane materials for energy efficient separation process. This book describes the status and perspectives of both self-supported and supported carbon membranes from fundamentals to applications. The key steps on the development of high performance carbon membranes including precursor selection, tuning carbon membrane structure and regeneration are discussed. In the end, different potential applications both in gas and liquids separation are well described, and the future directions for carbon membrane development were pointed out. To this end, membrane science and engineering are set to play crucial roles as enabling technologies to provide energy efficient and cost-effective future solutions for energy and environment related processes. Based on this approach the research projects which are trying to find attractive carbon materials in our days are many. The published papers, per year, in the topic of carbon membranes, especially for biogas upgrading, natural gas sweetening and hydrogen purification, are numerous with very high impact. However, only few are the books which include relevant to the topic of carbon membrane technology. This book offers the condensed and interdisciplinary knowledge on carbon membranes, and provides the opportunity to the scientists who are working in the field of carbon membrane technology for gas and liquid separations to present, share, and discuss their contributions within the membrane community.

Plant Sciences Reviews 2011 Springer

This open access book, written by world experts in aquaponics and related technologies, provides the authoritative and comprehensive overview of the key aquaculture and hydroponic and other

integrated systems, socio-economic and environmental aspects. Aquaponic systems, which combine aquaculture and vegetable food production offer alternative technology solutions for a world that is increasingly under stress through population growth, urbanisation, water shortages, land and soil degradation, environmental pollution, world hunger and climate change.

Membrane Engineering for the Treatment of Gases: Gas-separation problems combined with membrane reactors CABI

Semiannual, with semiannual and annual indexes. References to all scientific and technical literature coming from DOE, its laboratories, energy centers, and contractors. Includes all works deriving from DOE, other related government-sponsored information, and foreign nonnuclear information.

Arranged under 39 categories, e.g., Biomedical sciences, basic studies; Biomedical sciences, applied studies; Health and safety; and Fusion energy. Entry gives bibliographical information and abstract. Corporate, author, subject, report number indexes.

User Guide for the MATLAB Reservoir Simulation Toolbox (MRST) Springer Nature

The IWA Task Group for Mathematical Modelling of Anaerobic Digestion Processes was created with the aim to produce a generic model and common platform for dynamic simulations of a variety of anaerobic processes. This book presents the outcome of this undertaking and is the result of four years collaborative work by a number of international experts from various fields of anaerobic process technology. The purpose of this approach is to provide a unified basis for anaerobic digestion modelling. It is hoped this will promote increased application of modelling and simulation as a tool for research, design, operation and optimisation of anaerobic processes worldwide. This model was developed on the basis of the extensive but often disparate work in modelling and simulation of anaerobic digestion systems over the last twenty years. In developing ADM1, the Task Group have tried to establish common nomenclature, units and model structure, consistent with existing anaerobic modelling literature and the popular activated sludge models (See Activated Sludge Models ASM1, ASM2, ASM2d and ASM3, IWA Publishing, 2000, ISBN: 1900222248). As such, it is intended to promote widespread application of simulation from domestic (wastewater and sludge) treatment systems to specialised industrial applications. Outputs from the model include common process variables such as gas flow and composition, pH, separate organic acids, and ammonium. The structure has been devised to encourage specific extensions or modifications where required, but still maintain a common platform. During development the model has been successfully tested on a range of systems from full-scale waste sludge digestion to laboratory-scale thermophilic high-rate UASB reactors. The model structure is presented in a readily applicable matrix format for implementation in many available differential equation solvers. It is expected that the model will be available as part of commercial wastewater simulation packages. ADM1 will be a valuable information source for practising engineers working in water treatment (both domestic and industrial) as well as academic researchers and students in Environmental Engineering and Science, Civil and Sanitary Engineering, Biotechnology, and Chemical and Process Engineering departments. Contents Introduction Nomenclature, State Variables and Expressions Biochemical Processes Physicochemical Processes Model Implementation in a Single Stage CSTR Suggested Biochemical Parameter Values, Sensitivity and Estimation Conclusions References Appendix A: Review of Parameters Appendix B: Supplementary Matrix Information Appendix C: Integration with the ASM Appendix D: Estimating Stoichiometric Coefficients for Fermentation Scientific & Technical Report No.13

Negative Emissions Technologies and Reliable Sequestration Springer Nature

Increased research is going on to explore the new cleaner options for the utilization of natural resources. This book aims to provide the scientific knowhow and orientation in the area of the emerging technologies for utilization of natural resources for sustainable development to the readers. The book includes production of energy and lifesaving drugs using natural resources as well as reduction of wastage of resources like water and energy for sustainable development in both technological as well as modeling aspects.

PEM Water Electrolysis CRC Press

This two volume set presents the state-of-the-art, and potential for future developments, in membrane engineering for the separation of gases.

The Road towards Carbon Neutrality in the different Nordic Countries Nordic Council of Ministers

Presents advanced reservoir simulation methods used in the widely-used MRST open-source software for researchers, professionals, students.

Springer Science & Business Media

Energy emissions from industry and transport could be cut to zero by 2060 with pro-active policies and investments. Renewables will be crucial.

Exploring ways for sustainably feeding the Nordics Frontiers Media SA

This edited book provides an in-depth overview of carbon dioxide (CO₂) transformations to sustainable power technologies. It also discusses the wide scope of issues in engineering avenues, key designs, device fabrication, characterizations, various types of conversions and related topics. It includes studies focusing on the applications in catalysis, energy conversion and conversion technologies, etc. This is a unique reference guide, and one of the detailed works is on this technology. The book is the result of commitments by leading researchers from various backgrounds and expertise. The book is well structured and is an essential resource for scientists, undergraduate, postgraduate students, faculty, R&D professionals, energy chemists and industrial experts.

Renewables John Wiley & Sons

This book aspires to be a comprehensive summary of current biofuels issues and thereby contribute to the understanding of this important topic. Readers will find themes including biofuels development efforts, their implications for the food industry, current and future biofuels crops, the successful Brazilian ethanol program, insights of the first, second, third and fourth biofuel generations, advanced biofuel production techniques, related waste treatment, emissions and environmental impacts, water consumption, produced allergens and toxins. Additionally, the biofuel policy discussion is expected to be continuing in the foreseeable future and the reading of the biofuels features dealt with in this book, are recommended for anyone interested in understanding this diverse and developing theme.

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