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David L. Olson, Desheng Dash Wu

Monthly Catalog of United States Government Publications ,2003

Biorefineries: A Step Towards Renewable and Clean Energy Pradeep Verma,2021-01-04

This book provides a comprehensive account of past, present and future of the biomass based biorefineries. It is an all-inclusive and insightful compilation of recent advancements in the technology and methods used for conversion of biomass to bioenergy and other useful biochemicals. The book also focuses on the limitations of existing technologies and provides the future prospects, as well as discusses socio-economic impact of biomass based biorefineries. This book assists researchers in the area of lignocellulosic biorefineries and can be used by the students, scientist and academician as an advanced reference textbook.

Handbook of Image and Video Processing Alan C. Bovik,2010-07-21 55% new material in the latest edition of this “must-have for students and practitioners of image & video processing! This Handbook is intended to serve as the basic reference point on image and video processing, in the field, in the research laboratory, and in the classroom. Each chapter has been written by carefully selected, distinguished experts specializing in that topic and carefully reviewed by the Editor, Al Bovik, ensuring that the greatest depth of understanding be communicated to the reader. Coverage includes introductory, intermediate and advanced topics and as such, this book serves equally well as classroom textbook as reference resource. • Provides practicing engineers and students with a highly accessible resource for learning and using image/video processing theory and algorithms • Includes a new chapter on image processing education, which should prove invaluable for those developing or modifying their curricula • Covers the various image and video processing standards that exist and are emerging, driving today’s explosive industry • Offers an understanding of what images are, how

they are modeled, and gives an introduction to how they are perceived • Introduces the necessary, practical background to allow engineering students to acquire and process their own digital image or video data • Culminates with a diverse set of applications chapters, covered in sufficient depth to serve as extensible models to the reader's own potential applications About the Editor... Al Bovik is the Cullen Trust for Higher Education Endowed Professor at The University of Texas at Austin, where he is the Director of the Laboratory for Image and Video Engineering (LIVE). He has published over 400 technical articles in the general area of image and video processing and holds two U.S. patents. Dr. Bovik was Distinguished Lecturer of the IEEE Signal Processing Society (2000), received the IEEE Signal Processing Society Meritorious Service Award (1998), the IEEE Third Millennium Medal (2000), and twice was a two-time Honorable Mention winner of the international Pattern Recognition Society Award. He is a Fellow of the IEEE, was Editor-in-Chief, of the IEEE Transactions on Image Processing (1996-2002), has served on and continues to serve on many other professional boards and panels, and was the Founding General Chairman of the IEEE International Conference on Image Processing which was held in Austin, Texas in 1994. * No other resource for image and video processing contains the same breadth of up-to-date coverage * Each chapter written by one or several of the top experts working in that area * Includes all essential mathematics, techniques, and algorithms for every type of image and video processing used by electrical engineers, computer scientists, internet developers, bioengineers, and scientists in various, image-intensive disciplines

Advances in Clean Energy Anand Ramanathan, Babu Dharmalingam, Vinoth Thangarasu, 2020-10-22 Advances in Clean Energy: Production and Application supports sustainable clean energy technology and green fuel for clean combustion by reviewing the pros and cons of currently available technologies specifically for biodiesel production from biomass sources, recent fuel

modification strategy, low-temperature combustion technology, including other biofuels as well. Written for researchers, graduate students, and professionals in mechanical engineering, chemical engineering, energy, and environmental engineering, this book: Covers global energy scenarios and future energy demands pertaining to clean energy technologies Provides systematic and detailed coverage of the processes and technologies used for biofuel production Includes new technologies and perspectives, giving up-to-date and state-of-the-art information on research and commercialization Discusses all conversion methods including biochemical and thermochemical Examines the environmental consequences of biomass-based biofuel use

Best Practices on Advanced Condition Monitoring of Rail Infrastructure Systems Stefano Bruni, Serdar Dindar, Sakdirat Kaewunruen, 2022-03-14 This Research Topic eBook comprises Volume I and Volume II of Best Practices on Advanced Condition Monitoring of Rail Infrastructure Systems.

Green Aviation Emily S. Nelson, D.R. Reddy, 2018-06-12 Aircraft emissions currently account for ~3.5% of all greenhouse gas emissions. The number of passenger miles has increased by 5% annually despite 9/11, two wars and gloomy economic conditions. Since aircraft have no viable alternative to the internal combustion engine, improvements in aircraft efficiency and alternative fuel development become essential. This book comprehensively covers the relevant issues in green aviation. Environmental impacts, technology advances, public policy and economics are intricately linked to the pace of development that will be realized in the coming decades. Experts from NASA, industry and academia review current technology development in green aviation that will carry the industry through 2025 and beyond. This includes increased efficiency through better propulsion systems, reduced drag airframes, advanced materials and operational changes. Clean combustion and emission control of noise, exhaust gases and particulates are also addressed through combustor

design and the use of alternative fuels. Economic imperatives from aircraft lifetime and maintenance logistics dictate the drive for drop-in fuels, blending jet-grade and biofuel. New certification standards for alternative fuels are outlined. Life Cycle Assessments are used to evaluate worldwide biofuel approaches, highlighting that there is no single rational approach for sustainable buildup. In fact, unless local conditions are considered, the use of biofuels can create a net increase in environmental impact as a result of biofuel manufacturing processes. Governmental experts evaluate current and future regulations and their impact on green aviation. Sustainable approaches to biofuel development are discussed for locations around the globe, including the US, EU, Brazil, China and India.

Climate Change 2022 - Mitigation of Climate Change Intergovernmental Panel on Climate Change (IPCC), 2023-08-17 This Working Group III contribution to the IPCC Sixth Assessment Report provides a comprehensive and transparent assessment of the literature on climate change mitigation. The report assesses progress in climate change mitigation options for reducing emissions and enhancing sinks. With greenhouse gas emissions at the highest levels in human history, this report provides options to achieve net zero, as pledged by many countries. The report highlights for the first time the social and demand-side aspects of climate mitigation, and assesses the literature on human behaviour, lifestyle, and culture, and its implications for mitigation action. It brings a wide range of disciplines, notably from the social sciences, within the scope of the assessment. IPCC reports are a trusted source for decision makers, policymakers, and stakeholders at all levels (international, regional, national, local) and in all branches (government, businesses, NGOs). Available as Open Access on Cambridge Core.

Advancements in Algal Biofuels Research - Recent Evaluation of Algal Biomass Production and Conversion Methods of into Fuels and High Value Co-products Umakanta Jena, S. Kent Hoekman, 2017-05-18 Algae biomass has enormous potential to produce fuels and value-

added products. Algae-derived biofuels and bioproducts offer great promise in contributing to U.S. energy security and in mitigating the environmental concerns associated with conventional fuels. Algae's ability to grow in low quality water/wastewater and to accumulate lipids has encouraged scientists to investigate algae as a medium for wastewater treatment and a potential source of fuel and bioproducts. There are growing demands for biomass-based transportation fuels, including biodiesel, bio-oil, biomethane, biohydrogen, and other high-value products (nutraceuticals, proteins, omega-3 etc.). Algae can help address these needs. The topic of algae energy includes the production and characterization of algae cultures, conversion into fuel feedstocks and high value products, and optimization of product isolation and use. In view of the increasing efforts in algae biomass production and conversion into energy and high-value products, the current research topic covers important aspects of algal strain selection, culture systems, inorganic carbon utilization, lipid metabolism and quality, biomass harvesting, extraction of lipids and proteins, and thermochemical conversion of algal feedstocks into biocrude.

Reverse Osmosis Systems Syed Javaid Zaidi,Haleema Saleem,2021-12-03 Reverse Osmosis Systems: Design, Optimization and Troubleshooting Guide describes in depth knowledge of designing and operating reverse osmosis (RO) systems for water desalination, and covers issues which will effect the probability for the long-standing success of the application. It also provides guidelines that will increase the performance of seawater RO desalination systems by avoiding errors in the design and operation and suggest corrective measures and troubleshooting of the problems encountered during RO operation. This book also provides guidelines for the best RO design and operational performance. In the introductory section, the book covers the history of RO along with the fundamentals, principles, transport models, and equations. Following sections cover the practical

areas such as pretreatment processes, design parameters, design software programs (WAVE, IMSDesign, TORAYDS2, Lewapplus, ROAM Ver. 2.0, Winflows etc.), RO performance monitoring, normalization software programs (RODataXL and TorayTrak), troubleshooting as well as system engineering. Simplified methods to use the design software programs are also properly illustrated and the screenshots of the results, methods etc. are also given here along with a video tutorial. The final section of the book includes the frequently asked questions along with their answers. Moreover, various case studies carried out and recent developments related to RO system performance, membrane fouling, scaling, and degradation studies have been analyzed. The book also has several work out examples, which are detailed in a careful as well as simple manner that help the reader to understand and follow it properly. The information presented in some of the case studies are obtained from existing commercial RO desalination plants. These topics enable the book to become a perfect tool for engineers and plant operators/technicians, who are responsible for RO system design, operation, maintenance, and troubleshooting. With the right system design, proper operation, and maintenance program, the RO system can offer high purity water for several years. Provides guidelines for the optimum design and operational performance of reverse osmosis desalination plants Presents step-by-step procedure to design reverse osmosis system with the latest design software programs along with a video tutorial Analyzes some of the issues faced during the design and operation of the reverse osmosis desalination systems, suggest corrective measures and its troubleshooting Discusses reverse osmosis desalination pretreatment processes, design parameters, system performance monitoring, and normalization software programs Examines recent developments related to system performance, membrane fouling, and scaling studies Presents case studies related to commercial reverse osmosis desalination plants Perfect training guide for engineers

and plant operators, who are responsible for reverse osmosis system design, operation and maintainance

Lignocellulose Bioconversion Through White Biotechnology Anuj Kumar Chandel, 2022-09-13
Lignocellulose Bioconversion Through White Biotechnology Comprehensive resource summarizing the recent technological advancements in white biotechnology and biomass conversion into fuels, chemicals, food, and more Lignocellulose Bioconversion Through White Biotechnology presents cutting-edge information on lignocellulose biomass conversion, detailing how white biotechnology can develop sustainable biomass pretreatment methods, effective plant cell wall degrading enzymes to yield high quality cellulosic sugars, and the eventual conversion of these sugars into fuels, chemicals, and other materials. To provide comprehensive coverage of the subject, the work offers in-depth critical analysis into both techno-economic and life cycle analysis of lignocellulose-based products. Each of the 16 chapters, written by a well-qualified and established researchers, academics, or engineers, presents key information on a specific facet of lignocellulose-based products. Topics covered include: Lignocellulose feedstock availability, types of feedstock, and potential crops that are of high interest to the industry Lignocellulose bioconversion, including both foundational technical aspects and new modern developments Plant cell wall degrading enzymes, including cellulase improvement and production challenges/solutions when scaling up Improvements and challenges when considering fermenting microorganisms for cellulosic sugars utilization Scaling up of lignocellulose conversion, including insight into current challenges and future practices Techno-economic aspects of lignocellulose feedstock conversion, green consumerism and industrialization aspects of renewable fuels/chemicals Students, academics, researchers, bio-business analysts, and policy-makers working on sustainable fuels, chemicals, materials, and renewable fuels can use

Lignocellulose Bioconversion Through White Biotechnology to gain invaluable expert insight into the subject, its current state of the art, and potential exciting future avenues to explore.

Environmental Oceanography and Coastal Dynamics Swapna Mukherjee, Kaushik Kiran Ghosh, Abhra Chanda, 2023-11-14 This book deals with every aspect of oceanography in detail including various aspects of physical, chemical, geological, and biological discourse. 'Earth and Planetary Science' is perhaps the oldest, dynamic, and ever-evolving subject. Oceanography is one of its domains, which has become important in the present date, given the ubiquitous and undeniable climate change that we are experiencing. The subject domain of oceanography encompasses several environmental issues, which need serious attention from the present scientific community. Despite the ocean's significant role in the collective well-being of the human race, a multitude of anthropogenic activities has drastically polluted and degraded several crucial oceanic ecosystems within a short span. This book aims to present a concise yet succinct introduction to Oceanography as a subject and at the same time highlight the cutting-edge topics of research encompassing marine pollution, coastal processes, and many other associated phenomena. Oceanography is an interdisciplinary emerging subject and students all over the world who come from varied disciplines are pursuing it as higher studies. Long sections are devoted to ocean-atmosphere interaction, tides, waves, and related coastal processes. The book represents a comprehensive idea of human activities bestowing the ocean with particular reference to Indian examples. This book helps to understand marine pollution and the behavior of oil, plastic, and other agents in the light of real-world examples and empirical models. Harnessing electricity from waves and tides is a technological advancement in the field of unconventional energy. The vast resources of the ocean like oil, mineral, methane hydrate, and their proper estimation and exploitation is the topic of discussion in the third part of the

book. This book is designated to meet the essential needs of the students studying oceanography and marine science. It may be helpful to professional oceanographers also.

Engineering Tools for Environmental Risk Management Katalin Gruiz, Tamás Meggyes, Éva Fenyvesi, 2019-01-08 The four volumes of the book series Engineering Tools for Environmental Risk Management deal with environmental management, assessment & monitoring tools, environmental toxicology and risk reduction technologies. This last volume focuses on engineering solutions usually needed for industrial contaminated sites, where nature's self-remediation is inefficient or too slow. The success of remediation depends on the selection of an increasing number of conventional and innovative methods. This volume classifies the remedial technologies and describes the reactor approach to understand and manage in situ technologies similarly to reactor-based technologies. Technology types include physicochemical, biological or ecological solutions, where near-natural, sustainable remediation has priority. A special chapter is devoted to natural attenuation, where natural changes can help achieve clean-up objectives. Natural attenuation and biological and ecological remediation establish a serial range of technologies from monitoring only to fully controlled interventions, using 'just' the natural ecosystem or sophisticated artificial living systems. Passive artificial ecosystems and biodegradation-based remediation – in addition to natural attenuation – demonstrate the use of these 'green' technologies and how engineering intervention should be kept at a minimum to limit damage to the environment and create a harmonious ecosystem. Remediation of sites contaminated with organic substances is analyzed in detail including biological and physicochemical methods. Comprehensive management of pollution by inorganic contaminants from the mining industry, leaching and bioleaching and acid mine drainage is studied in general and specifically in the case of an abandoned mine in Hungary where the innovative technology of

combined chemical and phytostabilization has been applied. The series of technologies is completed by electrochemical remediation and nanotechnologies. Monitoring, verification and sustainability analysis of remediation provide a comprehensive overview of the management aspect of environmental risk reduction by remediation. This book series focuses on the state of knowledge about the environment and its conscious and structured application in environmental engineering, management and decision making.

Emerging Trends in Computing, Informatics, Systems Sciences, and Engineering Tarek Sobh,Khaled Elleithy,2012-08-14 Emerging Trends in Computing, Informatics, Systems Sciences, and Engineering includes a set of rigorously reviewed world-class manuscripts addressing and detailing state-of-the-art research projects in the areas of Industrial Electronics, Technology & Automation, Telecommunications and Networking, Systems, Computing Sciences and Software Engineering, Engineering Education, Instructional Technology, Assessment, and E-learning. This book includes the proceedings of the International Joint Conferences on Computer, Information, and Systems Sciences, and Engineering (CISSE 2010). The proceedings are a set of rigorously reviewed world-class manuscripts presenting the state of international practice in Innovative Algorithms and Techniques in Automation, Industrial Electronics and Telecommunications.

Morphing Wing Technologies Sergio Ricci,Ferri M H Aliabadi,Ruxandra Botez,Fabio Semperlotti,2017-10-27 Morphing Wings Technologies: Large Commercial Aircraft and Civil Helicopters offers a fresh look at current research on morphing aircraft, including industry design, real manufactured prototypes and certification. This is an invaluable reference for students in the aeronautics and aerospace fields who need an introduction to the morphing discipline, as well as senior professionals seeking exposure to morphing potentialities. Practical applications of morphing

devices are presented—from the challenge of conceptual design incorporating both structural and aerodynamic studies, to the most promising and potentially flyable solutions aimed at improving the performance of commercial aircraft and UAVs. Morphing aircraft are multi-role aircraft that change their external shape substantially to adapt to a changing mission environment during flight. The book consists of eight sections as well as an appendix which contains both updates on main systems evolution (skin, structure, actuator, sensor, and control systems) and a survey on the most significant achievements of integrated systems for large commercial aircraft. Provides current worldwide status of morphing technologies, the industrial development expectations, and what is already available in terms of flying systems Offers new perspectives on wing structure design and a new approach to general structural design Discusses hot topics such as multifunctional materials and auxetic materials Presents practical applications of morphing devices

Emerging Infectious Diseases ,2018

Smart Agriculture Automation Using Advanced Technologies Amitava Choudhury, Arindam Biswas, T. P. Singh, Santanu Kumar Ghosh, 2022-01-01 This book addresses the challenges for developing and emerging trends in Internet-of-Things (IoT) for smart agriculture platforms. It also describes data analytics & machine learning, cloud architecture, automation & robotics and aims to overcome existing barriers for smart agriculture with commercial viability. It discusses IoT-based monitoring systems for analyzing the crop environment, and methods for improving the efficiency of decision-making based on the analysis of harvest statistics. The book explores a range of applications including intelligent field monitoring, intelligent data processing and sensor technologies, predictive analysis systems, crop monitoring, and weather data-enabled analysis in IoT agro-systems. This volume will be helpful for engineering and technology experts and researchers, as well as for policy-

makers.

Innovation Strategies in the Food Industry Charis M. Galanakis, 2021-10-21 Innovation Strategies for the Food Industry: Tools for Implementation, Second Edition explores how process technologies and innovations are implemented in the food industry, by i.e., detecting problems and providing answers to questions of modern applications. As in all science sectors, Internet and big data have brought a renaissance of changes in the way academics and researchers communicate and collaborate, and in the way that the food industry develops. The new edition covers emerging skills of food technologists and the integration of food science and technology knowledge into the food chain. This handbook is ideal for all relevant actors in the food sector (professors, researchers, students and professionals) as well as for anyone dealing with food science and technology, new products development and food industry. Includes the latest trend on training requirements for the agro-food industry Highlights new technical skills and profiles of modern food scientists and technologists for professional development Presents new case studies to support research activities in the food sector, including product and process innovation Covers topics on collaboration, entrepreneurship, Big Data and the Internet of Things

Enterprise Risk Management in Finance David L. Olson, Desheng Dash Wu, 2015-05-26 Enterprise Risk Management in Finance is a guide to measuring and managing Enterprise-wide risks in financial institutions. Financial institutions operate in a unique manner when compared to other businesses. They are, by the nature of their business, highly exposed to risk at every level, and indeed employ their own risk management functions to manage many of these risks. However, financial firms are also highly exposed at enterprise level. Traditional approaches and frameworks for ERM are flawed when applied to banks, asset managers or insurance houses, and a different approach

is needed. This new book provides a comprehensive, technical guide to ERM for financial institutions. Split into three parts, it first sets the scene, putting ERM in the context of finance houses. It will examine the financial risks already inherent in banking, and then insurance operations, and how these need to be accounted for at a floor and enterprise level. The book then provides the necessary tools to implement ERM in these environments, including performance analysis, credit analysis and forecasting applications. Finally, the book provides real life cases of successful and not so successful ERM in financial institutions. Technical and rigorous, this book will be a welcome addition to the literature in this area, and will appeal to risk managers, actuaries, regulators and senior managers in banks and financial institutions.

Low Cost Manufacturing Technologies Shrikrishna Nandkishor Joshi,Uday Shanker Dixit,R. K. Mittal,Swarup Bag,2023-03-15 This book is on various advanced, simple, and novel techniques being used and developed in the area of manufacturing processes. Manufacturing sector is one of the important areas which help to improve the economy of our nation. It not only generates employment opportunities but also makes us self-reliant (aatma nirbhar). In line with this important agenda of Government of India, this track envisages high-quality research contributions in the field of low-cost manufacturing technologies. It comprises the research and development studies on the various factors that influence the cost of manufacturing of product or system. The factors are materials, manufacturing processes, material handling processes, skilled manpower, quality control technologies, effective communication, and use of artificial intelligence techniques. The papers are on both numerical and experimental research works related to these aspects.

Practice Guideline for the Treatment of Patients with Schizophrenia American Psychiatric Association,1997 The American Psychiatric Association (APA) is accredited by the Accreditation

Council for Continuing Medical Education to sponsor continuing medical education for physicians.

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health and performance from cellular to whole body perspectives the study of sports science traditionally incorporates areas of physiology exercise physiology psychology sport psychology anatomy

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