

Scientific Principles and Case Studies

Krishnan Sankaranarayanan Hedzer J. van der Kooi Jakob de Swaan Arons



Efficiency And Sustainability In The Energy And Chemical Industries

Scott G. McNall, James C. Hershauer, George Basile

Efficiency And Sustainability In The Energy And Chemical Industries:

Efficiency and Sustainability in the Energy and Chemical Industries Krishnan Sankaranarayanan, Jakob de Swaan Arons, Hedzer J. van der Kooi, 2004-01-21 Translating fundamental principles of irreversible thermodynamics into day to day engineering concepts this reference provides the tools to accurately measure process efficiency and sustainability in the power and chemical industries helping engineers to recognize why losses occur and how they can be reduced utilizing familiar thermodynamic principles Compares the present industrial society with an emerging metabolic society in which mass production and consumption are in closer harmony with the natural environment The first book to utilize classic thermodynamic principles for clear understanding analysis and optimization of work flows environmental resources and driving forces in the chemical and power industries Efficiency and Sustainability in the Energy and Chemical Industries EduGorilla Prep Experts, 2024-06-02 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various Efficiency and Sustainability in the Energy and Chemical Industries Krishnan Sankaranarayanan, Hedzer J. van der Kooi, Jakob de Swaan Arons, 2010-05-24 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 Second Edition investigates why losses occur and explains how to reduce such losses Numerous case studies examples and problems illustrate the thermodynamic analysis of process performance to explain how to effectively analyze and optimize work flows and environmental resources The authors compare the present industrial society with an emerging one in which mass production and consumption are in harmony with the natural environment through closure of material cycles In this second edition the book s structure of Basics Thermodynamic Analysis of Processes Case Studies and Sustainability has been unaffected but a few additions have been made New and updated information includes A new chapter dedicated to the increasing levels of CO2 emissions with special attention to the removal and storage of CO2 A new chapter on the rapidly emerging hydrogen economy. An extended chapter on lifecycle analysis that examines the fate of the quality of energy during the lifecycle Increased focus on integrating the environment into the thermodynamic analysis of the systems or processes considered New problem sets and exercises Complete with the keys to a quantification of process efficiency and sustainability this cutting edge resource is the ideal guide for those engaged in the transition from fossil based fuels to renewable and sustainable energy sources using low waste procedures 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 of ciency 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 **Principles and Applications of Waste Heat Recovery Arjun** Goswami, 2025-02-20 Principles and Applications of Waste Heat Recovery dives deep into the principles technologies and real world applications of waste heat recovery in industrial contexts We offer an indispensable resource for engineers researchers and professionals keen on unlocking the potential of waste heat to enhance energy efficiency and promote sustainability We lay a solid foundation in the fundamental principles of waste heat recovery covering topics such as heat transfer mechanisms thermodynamic cycles and strategies for optimizing efficiency Readers gain insights into key technologies like heat exchangers thermoelectric generators and organic Rankine cycles crucial for designing effective waste heat recovery systems Moving beyond theoretical concepts we delve into practical industrial applications across diverse sectors Our book showcases case studies practical examples and industry insights highlighting successful implementations in manufacturing chemical processing power generation and renewable energy integration. We address crucial aspects such as integrating waste heat recovery with renewable energy sources regulatory frameworks and policy initiatives promoting sustainable energy practices Through a blend of theoretical knowledge practical insights and industry best practices we equip readers with the tools needed to optimize energy usage reduce emissions and enhance operational efficiency **Sustainability of** Biofuel Production from Oil Palm Biomass Keat Teong Lee, Cynthia Ofori-Boateng, 2013-07-30 This book evaluates and discusses the main sustainability challenges encountered in the production of biofuel and bio products from oil palm biomass It starts off with the emphasis on oil palm production oil palm products recovery and oil palm wastes utilization The simultaneous production of these bio products for sustainable development is discussed This is followed by the key factors

defining the sustainability of biofuel and bio product production from oil palm biomass The environmental issues including ecological life cycle assessment and environmental impact assessment of oil palm plantation milling and refining for the production of biofuels and bio products are presented Socio economic and thermodynamic analysis of the production processes are also evaluated using various sustainability assessment tools such as exergy Lastly methods of improving biofuel production systems for sustainable development are highlighted Life Cycle Assessment of Renewable Energy Sources Anoop Singh, Deepak Pant, Stig Irving Olsen, 2013-09-02 Governments are setting challenging targets to increase the production of energy and transport fuel from sustainable sources. The emphasis is increasingly on renewable sources including wind solar geothermal biomass based biofuel photovoltaics or energy recovery from waste What are the environmental consequences of adopting these other sources How do these various sources compare to each other Life Cycle Assessment of Renewable Energy Sources tries to answer these questions based on the universally adopted method of Life Cycle Assessment LCA This book introduces the concept and importance of LCA in the framework of renewable energy sources and discusses the key issues in conducting their LCA This is followed by an in depth discussion of LCA for some of the most common bioenergy sources such as agricultural production systems for biogas and bioethanol biogas from grass biodiesel from palm oil biodiesel from used cooking oil and animal fat Jatropha biodiesel lignocellulosic bioethanol ethanol from cassava and sugarcane molasses residential photovoltaic systems wind energy microalgal biodiesel biohydrogen and biomethane Through real examples the versatility of LCA is well emphasized Written by experts all over the globe the book is a cornucopia of information on LCA of bioenergy systems and provides a platform for stimulation of new ideas and thoughts The book is targeted at practitioners of LCA and will become a useful tool for researchers working on different aspects of Energy Security and Environmental Sustainability in the Western Hemisphere Bruce M. Bagley, Remi bioenergy B. Piet, Marcelo R. S. Zorovich, 2017-02-03 In light of the rapid fluctuations in oil prices and subsequent impact on the stability and economic perspectives of energy producing and energy importing states in the Western Hemisphere this book stresses the urgency to integrate sustainability at the very core of national energy security strategies From Canada to Argentina this edited volume analyzes a series of case studies and diverging paradigms across the continent It underlines how the relatively recent exploitation of unconventional energy sources in North America and the resulting impact on prices impact the geopolitical concerns of traditional producers It also explains how much energy strategies are central to the development of national economies and the stability of their society Highlighting the shortcomings in several countries even at a time of high prices the volume makes the case for an inclusive and holistic approach to energy security that would integrate environmental concerns at its very core This edited volume also explains how this new energy independence of the western Hemisphere affects its foreign policy with the main international actors in the field of energy whether traditional producers or consumers Finally it provides key insights on successful strategy towards the development of alternative

sources of energy Environmental Assessment on Energy and Sustainability by Data Envelopment Analysis Toshiyuki Sueyoshi, Mika Goto, 2018-02-02 Introduces a bold new model for energy industry pollution prevention and sustainable growth Balancing industrial pollution prevention with economic growth is one of the knottiest problems faced by industry today This book introduces a novel approach to using data envelopment analysis DEA as a powerful tool for achieving that balance in the energy industries the world's largest producers of greenhouse gases It describes a rigorous framework that integrates elements of the social sciences corporate strategy regional economics energy economics and environmental policy and delivers a methodology and a set of strategies for promoting green innovation while solving key managerial challenges to greenhouse gas reduction and business growth In writing this book the authors have drawn upon their pioneering work and considerable experience in the field to develop an unconventional holistic approach to using DEA to assess key aspects of sustainability development The book is divided into two sections the first of which lays out a conventional framework of DEA as the basis for new research directions In the second section the authors delve into conceptual and methodological extensions of conventional DEA for solving problems of environmental assessment in all contemporary energy industry sectors Introduces a powerful new approach to using DEA to achieve pollution prevention sustainability and business growth Covers the fundamentals of DEA including theory statistical models and practical issues of conventional applications of DEA Explores new statistical modeling strategies and explores their economic and business implications Examines applications of DEA to environmental analysis across the complete range of energy industries including coal petroleum shale gas nuclear energy renewables and more Summarizes important studies and nearly 800 peer reviewed articles on energy the environment and sustainability Environmental Assessment on Energy and Sustainability by Data Envelopment Analysis is must reading for researchers academics graduate students and practitioners in the energy industries as well as government officials and policymakers tasked with regulating the environmental impacts of industrial pollution Race For Sustainability: Energy, Economy, Environment And Ethics Ken Hickson, 2013-10-04 Even with the latest and best vehicles machinery technology and buildings if we continue to use resources irresponsibly if we continue to waste food water and energy we are not even in the race This book looks at the sustainable issues and the accompanying opportunities and leads readers on a fast track to clear the air and drive to a sustainable low carbon future To focus on renewable energy and energy efficiency To stop the burning and stop wasting resources Read on and let the wealth of information in this book inspire you along your sustainability journey Join the race and act soon A portfolio of stories essays profiles and case studies covering the four E s of Sustainability Energy Economy Environment and Ethics Fundamentals of Materials for Energy and Environmental Sustainability David S. Ginley, David Cahen, 2011-11-30 How will we meet rising energy demands What are our options Are there viable long term solutions for the future Learn the fundamental physical chemical and materials science at the heart of renewable non renewable energy sources future transportation systems energy efficiency and energy storage

Whether you are a student taking an energy course or a newcomer to the field this textbook will help you understand critical relationships between the environment energy and sustainability Leading experts provide comprehensive coverage of each topic bringing together diverse subject matter by integrating theory with engaging insights Each chapter includes helpful features to aid understanding including a historical overview to provide context suggested further reading and questions for discussion Every subject is beautifully illustrated and brought to life with full color images and color coded sections for easy browsing making this a complete educational package Fundamentals of Materials for Energy and Environmental **Department of the Interior and Related** Sustainability will enable today s scientists and educate future generations Agencies Appropriations for 2001 United States. Congress. House. Committee on Appropriations. Subcommittee on Department of the Interior and Related Agencies, 2000 Handbook of Climate Change Mitigation and Adaptation Maximilian Lackner, Baharak Sajjadi, Wei-Yin Chen, 2025-09-26 Now in its 4th extended edition this completely revised and significantly expanded handbook addresses important new research findings and the global need for action related to climate change in its two most relevant aspects mitigation and adaptation There is a growing consensus that anthropogenic activities have been driving global climate change and the consequence will be catastrophic for civilization Reducing the 37 1 billion metric tons of CO2 produced annually 2017 global emissions along with other greenhouse gases particularly methane has become a leading grand challenge and the pursuit of sustainable energy environments and economies is a complex issue affecting the daily life of every citizen In this 4th edition readers will find new chapters covering the causes and impacts of global warming the climate change impacts on health biodiversity and the economy and emerging technologies for climate change mitigation Particular attention is given to topics such as wildfire threats ocean acidification coral bleaching sea level rise and permafrost thaw The latest research on sustainable aviation fuels carbon mineralization and smart cities is also covered in this new edition as well as topics like sustainable building design climate resistant building materials and sustainable agriculture The Handbook of Climate Change Mitigation and Adaptation collates information in this multi disciplinary area providing readers with a comprehensive overview of the scientific background and current and emerging technologies Intended for an interdisciplinary global audience of researchers and decision makers at universities and in industry it covers climate change models established mature and promising future technologies and ideas the impact of climate change strategies for dealing with global warming the related political frameworks and climate education

<u>Biotechnological Intervention in Production of Bioactive Compounds</u> Jyoti Devi,2025-02-25 This book provides an overview of the state of our understanding regarding the biosynthesis of bioactive compounds from plant and microbial sources Additionally examples of how these compounds have been used in food agriculture and human health are provided as well as the biotechnological approach for screening and characterizing bioactive compounds In the pharmaceuticals nutraceuticals and agrochemicals industries bioactive molecules are crucial to the production of high value products The

discovery of bioactive chemicals from diverse sources has supported their use as medications functional food ingredients herbicides and insecticides due to their medicinal advantages nutritional importance and protective impacts in healthcare and agriculture The systematic investigation of biologically active products and the prospective biological activities of these bioactive compounds comprising their medical uses standardization quality control mode of action and possible biomolecular interactions are among the greatest sensational expansions in modern natural medication and healthcare This book is a useful resource for graduate and undergraduate biomedical chemistry and agriculture students who are interested in learning more about the possibilities of bioactive natural products This book is useful to researchers in a variety of scientific domains where natural products are important Innovative and Hybrid Technologies for Wastewater Treatment and Recycling Pervez Alam, Afzal Husain Khan, Juliana Heloisa Pinê Américo-Pinheiro, Kafeel Ahmad, 2024-12-30 Innovative and Hybrid Technologies for Wastewater Treatment and Recycling investigates the biological and non biological features of the treatment process for wastewater and emphasizes the benefits that these aspects bring for sustainable engineering It discusses several approaches that are based on biological and non biological processes and examines the fundamental principles practical applications current achievements future aspects and associated limits Further it provides a wide range of innovative research on the treatment of wastewater as well as the applications in the treatment remediation and pollution prevention processes Explains the principles and concepts of the most recent and innovative treatment processes for wastewater remediation Examines emerging nanofiber technology for the purification of wastewater Provides an overview of the most cutting edge environmentally friendly technologies <u>Environmental Sustainability and Industries</u> Pardeep Singh, Ioão Paulo Bassin, Sanchavita Rajkhowa, Ramesh Oraon, Chaudhery Mustansar Hussain, 2022-06-03 Environmental Sustainability and Industries identifies and discusses critical areas related to environmentally conscious industrial development of products and services that may support more sustainable and equitable societies This book addresses pollution prevention by referring to the use of processes practices and materials that reduce or eliminate the generation of pollutants at the source of production more efficient use of raw materials energy water or other resources or by conserving natural resources by maintaining clean production It explains industrial energy efficiency as the most cost effective use of energy in manufacturing processes reducing its wastage as well as the total consumption of primary energy resources Life cycle assessment is used as an analytical method to quantify environmental impacts focusing on environmental considerations concerning process design and optimization and including various sustainable manufacturing parameters in the context of industrial processes and proposes a classification of identified parameters to evaluate and optimize the manufacturing performances The book also dives into industrial ecology investigating how where and why environmental improvements can be made to develop a sustainable industry meeting the needs of current generations without sacrificing the needs of the future ones This book analyzes a company s environmental social and economic performance and their

interrelationships emphasizing the importance of identifying and understanding causal relationships between alternative approaches to action and their impact on financial and nonfinancial performance It concludes with a view on the future of sustainable industrial systems stressing change as a joint effort of scientists governments people in business and academicians Offers compiled information on the environmental sustainability for industry Provides principles and advanced trends and approaches for environmental sustainability for the industrial sector Discusses established and emerging technologies and processes for sustainable approaches for industry Presents the development in the use of the assessment models as a tool to support the research and applications of different sustainable technologies and processes Value Creation in the Fine and Speciality Chemicals Industry R. Rajagopal, 2014-06-12 The global fine and speciality chemicals industry is a vital segment within the chemical value chain catering to a multitude of societal and industrial needs Regulatory sustainability and consumer forces have been constantly shaping the business fundamentals of this industry Developing value creation strategies which embed economic environmental and social sustainability components will need a comprehensive assessment of business scientific and technological challenges facing the industry Sustainable Value Creation in the Fine and Speciality Chemicals Industry assesses sustainable value creation options against the backdrop of global mega trends that are defining the present and future course of the industry It discusses innovative strategies in feedstocks R D technology manufacturing resource management and the supply chain as well as the significance of the bio based chemical economy in enabling sustainable value creation in the fine and speciality chemicals industry Topics covered include Transformation in the fine and speciality chemicals business Sustainable management evolution transitions and tools Research and technology directions Resource optimization strategies Bio based chemicals specialities and polymers Sustainable practices in the fine and speciality chemicals industry Sustainable value creation strategies Sustainable Value Creation in the Fine and Speciality Chemicals Industry presents a comprehensive overview of strategic options for sustainability management in the global fine and speciality chemicals industry It will be a valuable resource for chemists and chemical engineers involved in the design and development of economically environmentally and socially sustainable Multidisciplinary International Conference on Innovations in Education Science & practices for the future Technology ICIEST-2023 Prof. (Dr.) B.K Sarkar, Prof. (Dr.) Reena Singh, Prof. (Dr.) Vandana Singh, Miss. Shikha Mishra, Mr. Pawan Kumar, Miss. Pari Nidhi Singh, 2023-12-15 The central motive of the International Conference is to throw up a number of new ideas and solutions to address the present day challenges in the fields of 1 Science Technology Engineering and Mathematics 2 Economics Accounts 3 Architecture and Design Business Divinity Education Engineering Environmental Studies and Forestry Family and Consumer Science Health Sciences Human Physical Performance and Recreation Journalism Media Studies and Communication Law Library and Museum Studies Military Sciences Public Administration Social Work Transportation Fine arts Agricultural education Management Social sciences Physics Chemistry Business and commerce 4

Health oriented education Medical Pharmacy Dentel Ayurveda and Yoga 5 English Regional Language s Maths Science Social Sciences Physical Education Computer Basics Arts Drawing 6 History Languages and linguistics Literature Performing arts Philosophy Religion and Religious studies Visual arts 7 Anthropology Archaeology Area Studies Cultural and Ethnic Studies Economics Gender and Sexuality Studies Geography Political Science Psychology Sociology 8 Chemistry Earth Sciences Life Sciences Physics Space Sciences 9 Computer Sciences Logic Mathematics Statistics Systems Science The scope of the conference is broad and covers many aspects of international research prospective This conference aims to provide a scholarly platform for participants to publish their research in reputed International Journals The authors have incredible opportunity to present 5 Minute Video their research virtually and present findings worldwide that will not only help them gain the necessary exposure that they need to make their research work known in global scientific circles but also open the door to incredible opportunities for collaboration and conducting further research The Business of Sustainability Scott G. McNall, James C. Hershauer, George Basile, 2011-10-20 This three volume set is a landmark comprehensive overview of the business of sustainability providing 56 separate chapters from leaders in business non profit organizations and from within the academic and policy world In today s business environment garbage isn t simply worthless refuse to be disposed of anymore it often represents a material with monetary value The human population is using up about 30 percent more natural resources in one year than the earth can regenerate Because businesses constitute half of the world's largest economies there can be no sustainability without sustainable businesses The Business of Sustainability Trends Policies Practices and Stories of Success is a foundation set that effectively captures and articulates the why what who and how of sustainability and business Volume I covers the scientific economic and social underpinnings of sustainability and identifies the challenges facing business leaders Volume II explores the global network of designers producers suppliers distributors and consumers that must be addressed as a unit from a cradle to cradle life cycle perspective Volume III presents examples of success across many industries demonstrating that sustainability is indeed possible Each volume analytically addresses the larger issues such as the challenges of managing a business to the standards of sustainability measuring progress or success and creating and maintaining sustainable businesses This monumental work provides a comprehensive treatment of sustainability in the world of businesses exploring all of its dimensions obstacles metrics opportunities and pathways to success

Technologies for Sustainability in Energy and the Environment Martin Mkandawire, Allen J. Britten, R. Chandra Devi, 2024-10-10 The focus of technological development has changed from sustaining life to improving the quality of life This change is exerting excessive demand for fuel and resources The consequences manifest as challenges to environmental and energy sustainability and to climate change Thus further technological advancements need urgent re focusing to save the earth from becoming uninhabitable This book looks specifically at the direction of technologies and research innovations including those just entering the market for abating rehabilitating and restoring degraded environments Scientific and

engineering perspectives are presented on promising technologies for a sustaining environmental conditions which are cost effective and efficient with the potential to reach the most underprivileged world economies and b clean energy production which is either renewable or has low or zero carbon emissions. This book is a must read for a diverse and interdisciplinary audience ranging from academics researchers industry professionals and advanced students

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