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Battery Electric Vehicles, E-Fuel Powered Hybrids and Fuel Cell Powertrains Nanomaterials
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Biofuels Production Commemorative Issue to Celebrate the Life and Work of Prof. Roger W.H.
Sargent Maritime Decarbonization Sustainable Aviation Technology and
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on Highly Excited States in Nuclei Held at Jülich from 23–26 September 1975 Hardikk Valera
Vivek Dave Pravesh Chandra Shukla Rafael Luque Rafiqul Gani Mikael Lind Roberto Sabatini
John Love Abdul Karim Great Britain. Parliament. House of Commons Moriz Wortmann
Schweizerische Lebensversicherungs- und Rentenanstalt Wilhelm Gesenius A. Faessler
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 Wilhelm Gesenius A. Faessler*

this book explores advanced powertrain technologies aimed at reducing greenhouse gas
 ghg emissions and accelerating the transition to sustainable mobility as regulatory bodies
 push for alternatives to internal combustion engines ices battery electric vehicles bevs
 hybrid electric vehicles hevs plug in hybrid electric vehicles phevs and fuel cell based
 powertrains are emerging as viable solutions however challenges such as battery safety
 thermal management and fuel cell efficiency require further research and innovation this
 book presents state of the art developments in lithium ion batteries fuel cell modeling
 battery thermal management systems btmss and electro catalyst advancements for fuel
 cell transportation it also discusses the technological environmental and regulatory
 challenges associated with electrified powertrains by providing insights into recent
 advancements and future prospects this book serves as a valuable resource for
 researchers engineers and policymakers striving to develop efficient and sustainable
 vehicle technologies

this contributed volume addresses several environmental problems using nanoparticles
 nanomaterials for renewable energy and biofuel production it presents nanomaterials as
 catalysts that can enable better selectivity yield and quality in renewable energy and
 biofuel production the rapid expansion of industries and human population has resulted in
 a significant increase in the generation of waste and environmental pollution posing a
 significant threat to the environment and human health people are looking for safer and
 more eco friendly fuels to meet energy demand and preserve the world for future
 generations renewable energy and biofuels are alternative techniques that reduce fossil

fuel consumption the advancement in the field of nanotechnology has led to the development of nanocomposites nanomaterials which are composed of nanoscale particles and polymers their application in the environment has shown great potential in addressing environmental issues such as pollution control and waste management nanocomposites are advanced materials with unique properties such as improved mechanical strength thermal stability and flame resistance making them attractive for a wide range of applications including environmental applications nanomaterials show great potential for sustainable biofuel production with commercial feasibility nanotechnology based various conversion routes effectively convert waste biomass into value added biofuels such as syngas biodiesel and hvo this book discusses the green synthesis of nanocomposites nanomaterials for biofuel production and renewable energy additionally it covers techno economic analysis of bioremediation using green synthesized nanoparticles nanomaterials this book will be helpful for researchers engineers and scientists working in the areas of environmental biotechnology materials science nanotechnology environmental science and engineering

this volume discusses the use of renewable fuels for clean transportation and its applications on internal combustion engines the contents focus on the key aspects of fuel production processes and its impact on various segments of the transportation sector and for sustainable mobility several kinds of fuels are assessed such as biofuels alcohols and hydrogen and their effects on the combustion process are characterized by application this volume will be of use to those working in academia and industry as well as energy experts and policy makers

handbook of biofuels production processes and technologies third edition provides a comprehensive and systematic reference on a range of biomass conversion processes and technologies in response to the global increase in the use of biofuels as substitute transportation fuels advanced chemical biochemical and thermochemical biofuels production routes are quickly being developed substantial additions for this new edition

include increased coverage of emerging feedstocks including microalgae more emphasis on by product valorization for biofuels production additional chapters on emerging biofuel production methods and co production of biofuels and bioproducts the book s editorial team is strengthened by the addition of an extra member and a number of new contributors have been invited to work with authors from the first and second edition to revise existing chapters with each offering fresh perspectives this book is an essential reference for professional engineers in the biofuel industry as well as researchers in academia from post graduate level and up provides systematic and detailed coverage of the processes and technologies being used in the production of first second and third generation biofuels evaluates the latest advanced chemical biochemical and thermochemical technologies processes and production routes takes an integrated biorefinery approach guiding readers through the production of biofuels and their co products in integrated biorefineries includes videos of industrial production facilities and equipment showing how complex processes and reaction apparatus work in a lab and industry setting

this book celebrates the life work and influence of professor roger w h sargent of imperial college london it does so through a range of original contributions that span the wide academic and industry interests of professor sargent roger sargent passed away in late 2018 but his legacy lives on through his enormous academic tree which traces to the early 1960s that huge body of work has also had significant impacts on industrial practices roger was regarded as the father of process systems engineering pse this area of chemical engineering continues to influence the modelling design control optimization and integrated performance of industrial and related processes this book highlights some of those impacts and the ongoing importance of pse in helping to solve some of the grand challenges of our time

this volume analyses maritime decarbonization from various perspectives it contains unique approaches and tools in four areas scenarios value chains enablers and partnerships decarbonization has become a very important focus in the maritime industry

anyone that delves into the topic quickly appreciates its breadth and complexity minimizing greenhouse gases ghg emissions in maritime practices at large and doing it swiftly is far from simple the paris 2015 climate goals and the imo ambitions may be the industry s guiding lights but is this enough probably not at the managerial level a paradigm shift is needed from a fixed mindset that is calling for compensation to a growth mindset that seeks to capture the benefits of decarbonization this will require a structured approach in the form of practical frameworks and clear recommendations in this book 75 scholars and industry and subject matter experts have joined forces to explore different scenarios value chain designs decarbonization enablers and partnership models to develop frameworks and recommendations around how to effectively work and make progress the books offers a valuable mix of theory practical tools and real life cases

sustainable aviation technology and operations comprehensively covers research and development initiatives to enhance the environmental sustainability of the aviation sector sustainable aviation technology and operations provides a comprehensive and timely outlook of recent research advances in aeronautics and air transport with emphasis on both long term sustainable development goals and current achievements this book discusses some of the most promising advances in aircraft technologies air traffic management and systems engineering methodologies for sustainable aviation the topics covered include propulsion aerodynamics avionics structures materials airspace management biofuels and sustainable lifecycle management the physical processes associated with various aircraft emissions including air pollutants noise and contrails are presented to support the development of computational models for aircraft design flight path optimization and environmental impact assessment relevant advances in systems engineering and lifecycle management processes are also covered bridging some of the existing gaps between academic research and industry best practices a collection of research case studies complements the book highlighting opportunities for a timely uptake of the most promising technologies towards a more efficient and environmentally sustainable aviation future key features contains important research and industry relevant

contributions from world class experts addresses recent advances in aviation sustainability including multidisciplinary design approaches and multi objective operational optimisation methods includes a number of research case studies addressing propulsion aerostructures alternative aviation fuels avionics air traffic management and sustainable lifecycle management solutions sustainable aviation technology and operations is an excellent book for aerospace engineers aviation scientists researchers and graduate students involved in the field

with increased public and scientific attention driven by factors such as oil price spikes the need for increased energy security and concerns over greenhouse gas emissions from fossil fuels the production of fuels by biological systems is becoming increasingly important as the world seeks to move towards renewable sustainable energy sources biofuels and bioenergy presents a broad wide ranging and informative treatment of biofuels the book covers historical economic industrial sociological and ecological environmental perspectives as well as dealing with all the major scientific issues associated with this important topic with contributions from a range of leading experts covering key aspects including conventional biofuels basic biology biochemistry and chemistry of different types and classes of biofuel current research in synthetic biology and gm in the development and exploitation of new biofuel sources aspects relating to ecology and land use including the fuel v food dilemma sustainability of different types of biofuel ethical aspects of biofuel production biofuels and bioenergy provides students and researchers in biology chemistry biochemistry and chemical engineering with an accessible review of this increasingly important subject

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