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Battery Electric Vehicles, E-Fuel Powered Hybrids and Fuel Cell Powertrains Maritime Decarbonization Bio-kerosene Renewable Fuels for Sustainable Mobility Roadmap for Sustainable Aviation Biofuels for Brazil Green Aviation 13th International Colloquium Fuels ICAO Environmental Report 2010 ASTM Standards on Adhesives (with Related Information) ASTM Standards on Adhesives American Society for Testing and Materials Special Technical Publication Annual book of ASTM standards Annual Book of ASTM Standards 2023 Annual Book of ASTM Standards Hardikk Valera Mikael Lind Martin Kaltschmitt Pravesh Chandra Shukla Luís Augusto Barbosa Cortez Emily S. Nelson Nicolai Schubert ASTM Committee D-14 on Adhesives ASTM Committee D-14 on Adhesives American Society for Testing and Materials Battery Electric Vehicles, E-Fuel Powered Hybrids and Fuel Cell Powertrains Maritime Decarbonization Bio-kerosene Renewable Fuels for Sustainable Mobility Roadmap for Sustainable Aviation Biofuels for Brazil Green Aviation 13th International Colloquium Fuels ICAO Environmental Report 2010 ASTM Standards on Adhesives (with Related Information) ASTM Standards on Adhesives American Society for Testing and Materials Special Technical Publication Annual book of ASTM standards Annual Book of ASTM Standards 2023 Annual Book of ASTM Standards *Hardikk Valera Mikael Lind Martin Kaltschmitt Pravesh Chandra Shukla Luís Augusto Barbosa Cortez Emily S. Nelson Nicolai Schubert ASTM Committee D-14 on Adhesives ASTM Committee D-14 on Adhesives American Society for Testing and Materials*

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 (BTMS), and electrocatalyst 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 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

this book provides a detailed overview of aspects related to the overall provision chain for biokerosene as part of the global civil aviation business starting with a review of the current market situation for aviation fuels and airplanes and their demands it then presents in depth descriptions of classical and especially new types of non edible biomass feedstock suitable for biokerosene provision subsequent chapters discuss those fuel provision processes that are already available and those still under development based on various biomass feedstock materials and present e g an overview of the current state of the art in the production of a liquid biomass based fuel fulfilling the specifications for kerosene further given the growing interest of the aviation industry and airlines in biofuels for aviation the experiences of an air carrier are presented in closing the book provides a market outlook for biokerosene addressing a broad range of aspects related to the pros and cons of biokerosene as a renewable fuel for aviation the book offers a unique resource

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

the aviation industry is committed to reducing its environmental impact and has established the ambitious goals to reach carbon neutral growth by 2020 and to reduce carbon dioxide emissions by 50 from 2005 levels by

2050 currently the aviation industry generates approximately 2 of man caused carbon dioxide emissions it is a small but growing share that is projected to reach 3 by 2030 boeing and embraer as leading aviation companies committed to a more sustainable future have joined efforts to support initiatives to lower greenhouse gas ghg emissions derived from air transportation these emissions represent an important global concern in the 21st century and the growing aviation industry will need to find ways to reduce its contribution particularly in substituting fossil fuels by sustainable biofuel airlines are doing their part as well globally they have created the sustainable aviation fuel users group safug an organization focused on accelerating the development and commercialization of sustainable aviation biofuels and representing about 30 of commercial jet fuel demand brazil is internationally recognized for its long experience of using biomass for energy purposes beginning with wood sugarcane ethanol and biodiesel modern bioenergy represents around 30 of the brazilian energy matrix and has a long track record reconciling biofuel production food security and rural development much of what brazil has done in the bioenergy area was accomplished by long term policies and investment in research in this context boeing embraer and fapesp initiated this project to conduct a national assessment of the technological economic and sustainability challenges and opportunities associated with the development and commercialization of sustainable biofuel for aviation in brazil unicamp was selected for the coordination of this study with the charter to lead a highly qualified multi disciplinary research team

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

with the signing of the paris agreement in december 2015 the united nations explained their willingness to limit the ghg emissions and contribute to the measures against the global warming effect in 2019 the european commission proposed the green deal and as a consequence the target to be climate neutral in 2050 in consequence the fossil based energy system has to transform into a climate neutral energy system with renewable and sustainable energy carriers research on and development of alternative fuels and new production processes are ongoing to provide the technical solution political actions are needed to provide the economic framework for the introduction of such alternative fuel solutions the fulfilment of the european co2 reduction targets until 2050 needs realistic technical solutions including backwards compatible approaches for existing vehicle fleets an economic and sustainable development towards climate neutral mobility requires a holistic view based on life cycle assessments for the different mobility approaches including the economic impacts as well as financing options a synergetic discussion of solutions for future fuels and powertrain technologies is needed to develop an economic pathway to a sustainable and affordable mobility of tomorrow the challenging goal for mobility can only be achieved through an international cooperation of universities the automobile industry energy producers the oil industry and the legislative bodies of the member states the international colloquium aims to contribute to the development of a climate neutral mobility by exchanging views on and discussing all aspects connected with the powertrain fuel environment system including the necessary political regulations

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