

Astm D7566 14

Battery Electric Vehicles, E-Fuel Powered Hybrids and Fuel Cell Powertrains Biokerosene Maritime Decarbonization Renewable Fuels for Sustainable Mobility 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 Hardikk Valera Martin Kaltschmitt Mikael Lind Pravesb Chandra Shukla Emily S. Nelson Nicolai Schubert ASTM Committee D-14 on Adhesives ASTM Committee D-14 on Adhesives

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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 hev plug in hybrid electric vehicles phev 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 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 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 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 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

aircraft emissions currently account for 35% 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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