

AIRCRAFT WITH INNOVATIVE TECHNOLOGIES



Regional hybrid-to-electric aircraft

Our innovative battery regeneration system, ultra-low maintenance powertrain, short runways, fast & quiet climb and descent, optimal cruise speeds — all result in unparalleled operating economics compared with ATR72. To achieve airframe longevity, our aircraft has been future-proofed should an alternative energy source become available before 2030. The airframe could be turned into all-electric or carbon-neutral as the battery energy density improves or alternative sustainable fuels become available.

Optimization and control platform

Providing flight energy regeneration and optimization, real-time power management, fault detection and recovery, the platform determines the optimal energy usage plan for each flight, and queries the aircraft's energy sources in air, maximizing the use of battery power over the course of the charge-balanced flight. Assisted control of multiple propellers make flight operation simple across scenarios. Fault-tolerant capabilities detect and identify faults and reconfigure powertrain and controllers mid-flight.

Hybrid-to-electric powertrain

Our series hybrid powertrain was designed for an eventual transition to fully electric, without requiring any mechanical retrofitting. Designing with batteries at 14% of total weight, we've future-proofed our aircraft, enabling us to embrace future technologies, and fly faster over time. Our batteries and range extenders are used specifically for regional distances, with an optimized system that balances the depletion of batteries and use of range-extenders in-flight.

Airframe-integrated batteries

The standardized fuselage integrated battery bays are chemistry-agnostic, and the wing is pre-wired for the eventual transition to fully-electric. The bays include containment and temperature controls for fail-safe, extended life operation. The wing is designed and used to replace fuel tanks with internal bays for battery packs that are designed for easy and quick removal if required.

Electric Aircraft Technology

Tobias Bleicker



Electric Aircraft Technology:

Electric Flight Technology Ravi Rajamani, 2018-05-28 The environmental impact of hydrocarbon burning aircraft is one of the main motivations for the move to electric propulsion in aerospace Also cars buses and trucks are incorporating electric or hybrid electric propulsion systems reducing the pressure on hydrocarbons and lowering the costs of electrical components The economies of scale necessitated by the automotive industry will help contain costs in the aviation sector as well The use of electric propulsion in airplanes is not a new phenomenon However it is only recently that it has taken off in a concrete manner with a viable commercial future The *Electric Flight Technology Unfolding of a New Future* reviews the history of this field discusses the key underlying technologies and describes how the future for these technologies will likely unfold distinguishing between all electric AE and hybrid electric HE architectures Written by Dr Ravi Rajamani it covers the essential information needed to understand this new technology wave taking hold in the aerospace industry The *Electric Flight Technology Unfolding of a New Future* covers fundamental topics such as The history of electric propulsion including its evolution from using traditional electricity to solar power to batteries as sources to sustain propulsion and flight The various architectures being considered for electric aircraft specifically small general aviation GA aircraft and larger business jets single aisle commercial aircraft and larger twin aisle commercial aircraft The various systems and subsystems of an electric aircraft along with how various subsystems in the vehicle can be integrated in a more optimal manner In the future the existing tube and wing configuration will not be the only available architecture instead we will be more likely to find an architecture where the propulsion system is embedded within the airframe The future trends in this arena and what we can expect to see in the next decade or so

Electric Aircraft Technology Philip Terpstra, 1994-01-01 *Sustainable Aviation Technology and Operations* Roberto Sabatini, Alessandro Gardi, 2023-09-06 *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

Green Aviation Ramesh Agarwal,Fayette Collier,Andreas Schaefer,Allan Seabridge,2016-09-20 Green Aviation is the first authoritative overview of both engineering and operational measures to mitigate the environmental impact of aviation It addresses the current status of measures to reduce the environmental impact of air travel The chapters cover such items as Engineering and technology related subjects aerodynamics engines fuels structures etc Operations air traffic management and infrastructure Policy and regulatory aspects regarding atmospheric and noise pollution With contributions from leading experts this volume is intended to be a valuable addition and useful resource for aerospace manufacturers and suppliers governmental and industrial aerospace research establishments airline and aviation industries university engineering and science departments and industry analysts consultants and researchers

History and Evolution of Aircraft Ahmed F. El-Sayed,2024-07-31 History and Evolution of Aircraft reviews the history of aviation from early history to the present day including the evolution milestones of military aircraft civil aircraft helicopters drones balloons airships and their engines It also provides the background and development of different types of aircraft including manned and unmanned vehicles aircraft carriers fixed or rotary wings air sea and amphibian flight vehicles Covering current and developing applications of unmanned aerial vehicles UAVs the book highlights the prospects of future flying vehicles including automotives and jetpacks It follows the transition from piston to jet engines that include shaft based engines turboprop turboshaft and propfan turbine based engines turbojet and turbofan and athodyd engines ramjet turbo ramjet and scramjet The book explores flight vehicles technological advancements and evolution including their geometrical features and performance parameters It will also include nine appendices resembling databases for all types of aircraft The book will be a useful reference for academic researchers and aviation aerospace and mechanical engineering students taking aerodynamics aircraft structures aircraft engines and propulsion courses Aviation history enthusiasts will be interested in the scope of the content as well Instructors can utilize a Solutions Manual for their course

Electric Airplanes and Drones Kevin Desmond,2018-09-14 Attempts at electric powered flight date to well before the 19th century Battery weight and low energy output made it impractical until the 1990s when the advent of lightweight materials more efficient solar power improved engines and the Li Po lithium polymer battery opened the skies to a wide variety of electric aircraft The author describes the diverse designs of modern electric flying machines from tiny insect styled drones to stratospheric airships and explores developing trends including flying cars and passenger airliners *Futuristic*

Electric Airplanes Kerrily Sapet, 2019-09-04 Airplanes have come a long way since the first flight in 1903 They fly farther and faster than ever before They also dump tons of carbon dioxide into the atmosphere every day burning up fossil fuels and polluting the planet Airlines and other companies are teaming up to find a solution Innovative new designs for electric airplanes could change the way people travel within the next few years Someday you might hop on an airplane for a short trip instead of driving Or you might hover over city streets in an air taxi The future of flight is exciting and looks electric

Electric Aircraft Technology, 2025 **Next Generation Computing and Communication Applications** Raghvendra Kumar, Priyadarsan Parida, Prasant Kumar Pattnaik, 2026-01-01 This book constitutes the refereed proceedings of the First International Conference on Next Generation Computing and Communication Applications ICNGCCA 2025 held in Odisha India on March 18 2025 The 10 full papers presented in this volume were carefully reviewed and selected from 122 submissions They were categorized under the topical sections as follows Machine Learning Next Generation Computing and Big Data Analytics *Electrified Aircraft Propulsion* Kiruba Haran, Nateri Madavan, Tim C. O'Connell, 2022-05-26 What are the benefits of electrified propulsion for large aircraft What technology advancements are required to realize these benefits How can the aerospace industry transition from today's technologies to state of the art electrified systems Learn the answers with this multidisciplinary text combining expertise from leading researchers in electrified aircraft propulsion The book includes broad coverage of electrification technologies spanning power systems and power electronics materials science superconductivity and cryogenics thermal management battery chemistry system design and system optimization and a clear cut road map identifying remaining gaps between the current state of the art and future performance technologies Providing expert guidance on areas for future research and investment and an ideal introduction to cutting edge advances and outstanding challenges in large electric aircraft design this is a perfect resource for graduate students researchers electrical and aeronautical engineers policymakers and management professionals interested in next generation commercial flight technologies **Net-Zero Transit** Paul C. Okonkwo, Samuel Chukwujindu Nwokolo, Mahaad Issa Shammass, 2025-08-01 Net Zero Transit The Future of Eco Friendly Transportation thoroughly examines the possible future of environmentally friendly transportation presenting creative approaches and tactics to attain a transit sector with no net emissions The book explores the convergence of technology politics and consumer behavior to provide a comprehensive perspective on achieving environmentally friendly transportation worldwide The authors illustrate the practicality and advantages of adopting environmentally friendly transportation systems through the examination of real life examples and the analysis of data The authors offer practical assistance for establishing sustainable practices in the transit sector by emphasizing successful efforts and innovative solutions In addition they provide valuable perspectives on possible obstacles and hurdles that may occur throughout the shift towards achieving net zero emissions as well as suggestions for effectively addressing and surmounting them It uses theoretical analysis and case studies to explore the benefits and challenges of transitioning to a zero net carbon

transportation system The economic social and environmental impacts of transitioning to net zero transit are discussed including the role of government policies public private partnerships and community engagement The analytical framework of this book encompasses several scenarios such as the implementation of carbon policy carbon pricing carbon offset programs climate conscious car flight marine pooling climate conscious car flight marine green gridlock pedal walking power progress and future proof transportation It employs real historical datasets from different countries and regions across the globe to forecast future emissions from various transportation modes using a range of machine learning techniques This book is an invaluable resource for legislators industry experts and individuals seeking to promote environmentally friendly transportation solutions and contribute positively to the environment Its detailed analysis offers actionable insights to policymakers and stakeholders in the transportation industry enabling them to make well informed decisions regarding measures to reduce emissions Includes stimulating conversations regarding the ecological consequences of conventional transportation techniques and the pressing necessity for a transition towards environmentally sustainable transportation Thoroughly examines the policy consequences and regulatory systems that endorse carbon neutral transportation Provides practical suggestions for individuals corporations and governments seeking to decrease their carbon emissions by using innovative transportation solutions Represents a visionary aspiration for a future in which transportation is not just efficient and convenient but also environmentally sustainable and socially just

Electronic Technology ,1929 *Unsettled Domains Concerning Electric Propulsion Technology for Commercial Aircraft* Ravi Rajamani,2019-12-30 According to some electric propulsion is already on its way down the trough of disillusionment This report argues that while there are some concerns with associated technologies such pessimism is unwarranted Yes battery systems can be more energy dense charging standards are late in being developed it is not clear what technologies and architectures will win out for which sectors we still have to figure out how to deal with thermal management issues at all levels in future designs and what might be the certification standards for electric aircraft But that does not mean that these issues will not be addressed Yes these unsettled questions may take a little longer to solve than originally estimated but there is full expectation within the industry that electric propulsion for commercial aircraft will succeed In this SAE EDGE Research Report we present points of view from leading researchers in the industry who are thinking deeply about solving these problems NOTE SAE EDGE Research Reports are intended to identify and illuminate key issues in emerging but still unsettled technologies of interest to the mobility industry The goal of SAE EDGE Research Reports is to stimulate discussion and work in the hope of promoting and speeding resolution of identified issues SAE EDGE Research Reports are not intended to resolve the issues they identify or close any topic to further scrutiny Click here to access the full SAE EDGETM Research Report portfolio <https://doi.org/10.4271/EPR2019006>

Aviation Week & Space Technology ,1916 Includes a mid December issue called Buyer guide edition *Advanced Electrical Power System Technology for the All Electric Aircraft* Robert C. Finke,Gale R. Sundberg,1983

NASA SP. ,1992 **Fundamentals of Electric Aircraft** Pascal Thalin,Dr. Ravi Rajamani,Jean-Charles Maré,Sven Taubert,2023-09-01 Fundamentals of Electric Aircraft Second Edition was developed to explain what the electric aircraft stands for by offering an objective view of what can be expected from the giant strides in innovative architectures and technologies enabling aircraft electrification This edition features new illustrations and photographs throughout Through tangible case studies a deep insight is provided into this paradigm shift cutting across various aircraft segments from General Aviation to Large Aircraft Addressing design constraints and timelines foreseen to reach acceptable performance and maturity levels Fundamentals of Electric Aircraft Second Edition puts forward a general view of the progress made to date and what to expect in the years to come Drawing from the expertise of four industry veterans Pascal Thalin editor contributor Ravi Rajamani Jean Charles Mar and Sven Taubert contributors it addresses futuristic approaches but does not depart too far from the operational down to earth realities of everyday business Fundamentals of Electric Aircraft Second Edition also offers analyses on how performance enhancements and fuel burn savings may bring more value for money as long as new electric technologies deliver on their promises ISBN 9781468606492 ISBN 9781468606508 ISBN 9781468606515 DOI 10 4271 9781468606508 *Aviation Week, Including Space Technology* ,1930 Includes a mid December issue called Buyer guide edition **2018 AIAA IEEE Electric Aircraft Technologies Symposium (EATS)** IEEE Staff,2018-07-12 The symposium will focus on electric aircraft technology across three programmatic tracks 1 electric power enabled aircraft configurations and system requirements 2 enabling technologies for electric aircraft propulsion and 3 electric aircraft system integration and controls *Electric Aircraft Technology* ,2021

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