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Aircraft Design for Reduced Climate Impact - Emily Dallara 2011
Aircraft affect global climate through emissions of greenhouse gases and their precursors and by altering cirrus cloudiness. Changes in operations and design of future aircraft may be necessary to meet goals for limiting climate change. One method for reducing climate impacts involves designing aircraft to fly at altitudes where the impacts of NOx emissions are less severe and persistent contrail formation is less likely. By considering these altitude effects and additionally applying climate mitigation technologies, impacts can be reduced by 45–70% with simultaneous savings in total operating costs. Uncertainty is assessed, demonstrating that relative climate impact savings can be expected despite large scientific uncertainties. Strategies for improving climate performance of existing aircraft are also explored, revealing potential climate impact savings of 20–40%, traded for a 2% increase in total operating costs and reduced maximum range.
Inventory of Advanced Energy Technologies and Energy Conservation Research and Development, 1976-1978 - Oak Ridge National Laboratory 1979

American Battle Monuments Commission - United States. Congress. House. Committee on Appropriations. Subcommittee on HUD-Independent Agencies 1978

Examination of Commercial Aviation Operational Energy Conservation Strategies - Aerospace Corporation. Eastern Technical Division 1978

Developments In High-Speed Vehicle Propulsion Systems - S. N. B. Murthy 1996
Annotation There have been impressive achievements in the last few years in the technologies associated with turboramjets and other combined cycle engines. These technologies, including their thermal management and integration with the vehicle, are the principal concerns of this volume. Drawing on the expertise of international engineers and researchers in the field of high-speed vehicle propulsion systems, these articles, written by experts from the United States, Russia, Germany, Japan, Belgium, and Israel, highlight developments in the industry.
Aiming to Save - Larry Patterson 2022-04-28
Pursuing a dream instilled by early David Attenborough television adventures, a young man from the industrial northwest of England is advised at school to become a veterinary surgeon as a first step towards a career working with wild animals in Africa. His misgivings about the values and justification of domestic

veterinary practice are contrasted with a passion for wilderness and wildlife conservation. Early experiences in the vivid Uganda of Idi Amin are juxtaposed with life in a grey Pennines veterinary practice. Eventually arriving as a veterinary officer in newly independent Botswana he finds adventure with wild animals as a veterinarian and later as an ecologist, survey pilot, game capture operator and even a safari hunter, becoming a passionate conservationist... all while starting the first veterinary practice in the country.

The Global Commercial Aviation Industry - Sören Eriksson 2015-07-16

This book provides a state-of-the-art overview of the changes and development of the civil international aircraft/aviation industry. It offers a fully up-to-date account of the international developments and structure in the aircraft and aviation industries from a number of perspectives, which include economic, geographical, political and technological points of view. The aircraft industry is characterized by very complex, high technology products produced in relatively small quantities. The high-technology requirements necessitate a high level of R&D. In no other industry is it more of inter-dependence and cross-fertilisation of advanced technology. Consequently, most of the world's large aircraft companies and technology leaders have been located in Europe and North America. During the last few decades many developing countries have tried to build up an internationally competitive aircraft industry. The authors study a number of important issues including the political economy of the aircraft industry, globalization in this industry, innovation, newly industrializing economies and the aircraft industry. This book also explores regional and large aircraft, transformation of the aviation industry in Central and Eastern Europe, including engines, airlines, airports and airline safety. It will be of great value to students and to researchers seeking information on the aircraft industry and its development in different regions.

Commercial Aviation in the Jet Era and the Systems that Make it Possible - Thomas Filburn 2019-07-23

This book discusses the multiple systems that make commercial jet travel safe and convenient. The author starts by tracing the evolution of commercial jets from the Boeing 707 to the double decker Airbus A380. The next 7 chapters discuss flight controls, along with the high lift surfaces (flaps and slats) that are essential to allow high speed, low drag aircraft to take-off and land. The other systems include Engines/Nacelles, Cabin Pressurization and Air Conditioning systems, Landing Gear and brakes, Fuel Systems, Instruments/Sensors, and finally Deicing systems for the wings, nacelles and external air speed sensors. Case studies describe a significant accident that arose from a failure in the various systems described. The final chapter summarizes the past 60 years of jet travel and describe how these systems have created a cheaper, safer mode of travel than any other.

Energy Research Abstracts - 1993-02

Strategic Management: Theory & Cases: An Integrated Approach - Charles W. L. Hill 2014-01-01

This leading strategy text presents the complexities of strategic management through up-to-date scholarship and hands-on applications. Highly respected authors Charles Hill, Gareth Jones, and Melissa Schilling integrate cutting-edge research on topics including corporate performance, governance, strategic leadership, technology, and business ethics through both theory and case studies. Based on real-world practices and current thinking in the field, the eleventh edition of STRATEGIC MANAGEMENT features an increased emphasis on the changing global economy and its role in strategic management. The high-quality case study program contains 31 cases covering small, medium, and large companies of varying backgrounds. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Far Eastern Economic Review - 1982

Flying Off Course - Rigas Doganis 2019-01-10
Aviation is one of the most widely talked about industries in the global economy and yet airlines continue to present an enigma. Between 2010 and 2018 the global airline industry experienced its longest period of sustained profitability; however, huge global profits hid a darker side. Many airlines made inadequate profits or serious losses while others collapsed entirely. This fifth edition of Flying Off Course explains why. Written by leading industry expert, Rigas Doganis, this book is an indispensable guide to the inner workings of this exciting industry. Providing a complete, practical introduction to the fundamentals of airline economics and marketing, it explores the structure of the market, the nature of airline costs, issues around pricing and demand, and the latest developments in e-commerce. Vibrant examples are drawn from passenger, charter and freight airlines to provide a dynamic view of the entire industry. This completely updated edition also explores the sweeping changes that have affected airlines in recent years. It includes much new material on airline alliances, long-haul low-cost airlines, new pricing policies and ancillary revenues in order to present a compelling account of the current state of the airline industry. Offering a practical approach and peppered with real examples, this book will be valuable to anyone new to the airline industry as well as those wishing to gain a wider insight into its operations and economics. For undergraduate or postgraduate students in transport studies, tourism and business the book provides a unique insider's view into the workings of this exciting industry.
Department of Housing and Urban Development--independent Agencies Appropriations for 1979 - United States. Congress. House. Committee on Appropriations. Subcommittee on HUD-Independent Agencies 1978

Small Transport Aircraft Technology - Louis J. Williams 1983

Scientific and Technical Aerospace Reports - 1986
Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database.
Aerospace Industry Report, 4th ed - Robert Materna 2015-11-16
The Aerospace Industry Report 4th Edition addresses aerospace manufacturing and the national economy, the international economy, and the global aerospace marketplace. It also includes data on the U.S. aerospace workforce, aerospace clusters, the financial state of the aerospace industry, cyber security, the integration of unmanned aircraft systems into the U.S national airspace system, and America's role in space are also addressed. The report concludes with a summary of forecasts from different sources and an outlook for the industry for 2015 and beyond. The Aerospace Industry Report 4th Edition is over 300 pages long and includes over 200 pages of facts, figures, and tables filled with data on the industry.
Green Growth and Travelism - Geoffrey Lipman 2012-06-18
This book explores why the industry is misperceived and how it can take its rightful leadership place in the transformation to the new green economy. It looks practically into these issues by taking the views of 46 government, industry and civil society thought leaders on the challenges, opportunities and solutions.
Power-Based Study of Boundary Layer Ingestion for Aircraft Application - Peijian Lv 2022-10-16
This book presents research on Boundary Layer Ingestion (BLI). BLI is an aircraft-engine integration technique that aims at integrating the aircraft and the propulsion system such that the overall aircraft fuel consumption can be reduced. In this research, theoretical analysis suggests that the minimization of total power consumption should be used as a design criterion for aircraft utilizing BLI rather than focusing on the minimization of drag. Numerical simulations are performed, and the simulation results are processed

using the PBM to support the theoretical analysis. Furthermore, an experimental study is carried out with a focus on the power conversion processes involved for a propulsor operating in the wake. Stereoscopic PIV is employed in order to visualize the flow and understand the physics. The so-called Power-based Method is used to quantify the power conversion mechanisms. The results prove that the dominant mechanism responsible for the efficiency enhancement is due to the utilization of body wake energy by the wake ingesting propeller. In short, the importance of wake energy flow rate in understanding the BLI phenomenon is highlighted. This book will be useful for researchers in the field of aircraft propulsion, aircraft aerodynamics, and airframe propulsion integration.
USITC Publication - 1982

Environmental Impact of Aviation and Sustainable Solutions - Ramesh K. Agarwal 2020-07-15
Environmental Impact of Aviation and Sustainable Solutions is a compilation of review and research articles in the broad field of aviation and the environment. Over three sections and thirteen chapters, this book covers topics such as aircraft design and materials, combustor modeling, atomization, airport pollution, sonic boom and street noise pollution, emission mitigation strategies, and environmentally friendly contributions from a Russian aviation pioneer. This volume is a useful reference for both researchers and students interested in learning about various aspects of aviation and the environment
Energy Abstracts for Policy Analysis - 1981

ERDA Energy Research Abstracts - United States. Energy Research and Development Administration. Technical Information Center 1977

Aviation Noise Impact Management - Laurent Leylekian 2022
This open access book provides a view into the state-of-the-art research on aviation noise and related annoyance. The book will primarily focus on the achievements of the ANIMA project (Aviation Noise Impact Management through Novel Approaches), but not exclusively. The content has a broader theme in order to encompass. regulation issues, the ICAO (International Civil Aviation Organization) balanced approach, progresses made on technologies and reduction of noise at source, impact of possible future civil supersonic aircraft, land-use planning issues, as well as the core topics of the ANIMA project, i.e. impact on human beings, annoyance, quality of life, health and findings of the project in this respect. This book differs from traditional research programmes on aviation noise as the authors endeavour, not to lower noise at source, but to reduce the annoyance. This book examines these non-acoustic factors in an effort to help those most affected by aviation noise - communities living close to airports, and also help airport managers, policy-makers, local authorities and researchers to deal with this issue holistically. The book concludes with some recommendations for EU, national and local policy-makers, airport and aviation authorities, and more broadly a scientifically literate audience. These recommendations may help to identify gaps for progress in terms of research but also genuine implementation actions for political and regulatory authorities.
ERDA Energy Research Abstracts - United States. Energy Research and Development Administration 1977

Fuel Cell Science and Engineering, 2 Volume Set - Detlef Stolten 2012-10-22
Fuel cells are expected to play a major role in the future power supply that will transform to renewable, decentralized and fluctuating primary energies. At the same time the share of electric power will continually increase at the expense of thermal and mechanical energy not just in transportation, but also in households. Hydrogen as a perfect fuel for fuel cells and an outstanding and efficient means of bulk storage for

renewable energy will spearhead this development together with fuel cells. Moreover, small fuel cells hold great potential for portable devices such as gadgets and medical applications such as pacemakers. This handbook will explore specific fuel cells within and beyond the mainstream development and focuses on materials and production processes for both SOFC and lowtemperature fuel cells, analytics and diagnostics for fuel cells, modeling and simulation as well as balance of plant design and components. As fuel cells are getting increasingly sophisticated and industrially developed the issues of quality assurance and methodology of development are included in this handbook. The contributions to this book come from an international panel of experts from academia, industry, institutions and government. This handbook is oriented toward people looking for detailed information on specific fuel cell types, their materials, production processes, modeling and analytics. Overview information on the contrary on mainstream fuel cells and applications are provided in the book 'Hydrogen and Fuel Cells', published in 2010.

France Investment and Business Guide Volume 1 Strategic and Practical Information - IBP USA 2013-08

France Investment and Business Guide - Strategic and Practical Information

Energy Efficiency in Air Transportation - Arturo Benito 2018-06-23

Energy Efficiency in Air Transportation explores the relationship between air transportation and energy use, starting with an analysis of air transport energy sources and their potential development. The book examines how different elements of the air transport system make use of energy, with an analysis of various methods for optimizing energy consumption. The book covers the consequences of energy use in terms of economics, environmental impact and sustainable development, with a review of the existing and proposed regulatory measures addressing those factors. Aeronautical and air transport engineers interested in aerial vehicle systems design, as well as public administrators and regulators concerned with energy efficiency or environmental issues in air transport, will benefit greatly from this comprehensive reference, which captures necessary background information along with the newest developments in the field. Examines new developments in energy efficiency in the air transport field Includes exergy analyses of aerial vehicles and systems Shows the environmental impact from fuel use including local air quality, consumption of non-renewable materials and contribution to climate change Discusses the CO2 emissions certification required by ICAO for new aircraft models

Civil Aircraft - Jim Winchester 2004

Features over 120 civil aircraft with photographs, artwork, dimensions, performances etc for each one.

Popular Science - 1982-12

Popular Science gives our readers the information and tools to improve their technology and their world. The core belief that Popular Science and our readers share: The future is going to be better, and science and technology are the driving forces that will help make it better.

Energy: a Continuing Bibliography with Indexes - 1980

FAA Regulation Analysis for ATR ETOPS Validation - Jordi Claramunt Segura 2017

ATR is the current world leader in regional aviation. In order to maintain its leading role in the turboprop market and to expand its customers' portfolio in the United States, the granting of the Extended Twin-Engine Operations Performance Standards (ETOPS) certification by the Federal Aviation Administration (FAA) has been set as a mid-term goal. The market forecast done by ATR anticipates that 250 ageing turboprops will need to be replaced in the US in the coming years. Additionally, from the operational point of view the US airlines would benefit from significant fuel savings and low operating costs thanks to the introduction of ATR aircraft. Consequently, the purpose of this internship is to

perform a feasibility study to prove compliance with the ETOPS capability according to the American Authority. In this framework, a comparison between the American and the European regulation has been completed. The methodology undertaken consisted of gathering all the requirements applicable to ETOPS on the FAA regulation and the identification of the equivalent condition on the European regulation. Afterwards, a study on the impact of the differences has been conducted and a proposal of means of compliance for each different FAA requirement is presented. The final deliverable presented to ATR contains a matrix comparing the FAA and the EASA regulations with the whole ETOPS requirements. Finally, a conclusion evaluating the feasibility of the ETOPS validation was done, stating the needs and future steps to proceed to get the FAA approval for ATR ETOPS capability.

Trends and Issues in Global Tourism 2010 - Roland Conrady 2010-02-04

This book offers insights into important trends and future scenarios in the global tourism and travel industry and analyses current challenges in the aviation and hospitality industry, destination management and general travel behaviour. Well-known notabilities share their points of view. For example, Norbert Walter, chief economist of the Deutsche Bank, writes about the financial crisis and its impact on the tourism industry. Top executives of international operating airlines like C. Karlitekin (Turkish Airlines), J. Hunold (Air Berlin) and E. Sims (Air New Zealand) have much to say about the future of airlines and aviation management. Corporate Social Responsibility is one of the top themes to-be and therefore a focus of this book, offering the perspective of the UN Foundation and the social inclusion concept of RUHR.2010, European Capital of Culture. The articles are based on presentations and panel discussions presented at the world´ s largest tourism congress, the ITB Berlin Convention.

Certain Commuter Airplanes from France and Italy - United States International Trade Commission 1982

Assessment of Wingtip Modifications to Increase the Fuel Efficiency of Air Force Aircraft - National Research Council 2007-08-06

The high cost of aviation fuel has resulted in increased attention by Congress and the Air Force on improving military aircraft fuel efficiency. One action considered is modification of the aircraftâ€™s wingtip by installing, for example, winglets to reduce drag. While common on commercial aircraft, such modifications have been less so on military aircraft. In an attempt to encourage greater Air Force use in this area, Congress, in H. Rept. 109-452, directed the Air Force to provide a report examining the feasibility of modifying its aircraft with winglets. To assist in this effort, the Air Force asked the NRC to evaluate its aircraft inventory and identify those aircraft that may be good candidates for winglet modifications. This reportâ€"which considers other wingtip modifications in addition to wingletsâ€"presents a review of wingtip modifications; an examination of previous analyses and experience with such modifications; and an assessment of wingtip modifications for various Air Force aircraft and potential investment strategies.

Vol.1 A.I.D.A.A. Proceedings of the XXV AIDAA International Congress of Aeronautics and Astronautics - M. Costanzi 2021

The 2019 AIDAA Congress is the biennial Congress of the Italian Association of Aeronautics and Astronautics, the Italian no-profit cultural association dedicated to the aerospace community. AIDAA was formed in 1969 through a merging of the former Societies AIDA (Associazione Italiana di Aerotecnica formed in 1920) and AIR (Associazione Italiana Razzi).In 1951, AIDA was among the founders of the International Astronautical Federation (IAF) and in 1957 of the International Council of Aeronautical Sciences (ICAS). In 1992 AIDAA joined the Confederation of European Aerospace Societies (CEAS).The Congress is jointly hosted by AIDAA Rome Section, the Departments of Astronautic, Electric and Energetic Engineering (DIAEE) and of Mechanical and

Aerospace Engineering (DIMA) of Civil and Industrial Engineering Faculty and the School of Aerospace Engineering (SIA) of Sapienza University of Rome. The degree courses in Aerospace Engineering are attended by almost 1500 students.

The Economic, Social and Political Elements of Climate Change - Walter Leal Filho 2010-11-23

A unique feature of this book is its strong practice-oriented nature: it contains a wide range of papers dealing with the social, economic and political aspects of climate change, exemplifying the diversity of approaches to climate change management taking place all over the world, in a way never seen before. In addition, the book describes a number of projects and other initiatives happening in Africa, Asia, Europe, Latin American and the Australasian region, providing a profile of the diversity of works taking place today.

Commercial Airplane Design Principles - Pasquale M Sforza 2014-01-31

Commercial Airplane Design Principles is a succinct, focused text covering all the information required at the preliminary stage of aircraft design: initial sizing and weight estimation, fuselage design, engine selection, aerodynamic analysis, stability and control, drag estimation, performance analysis, and economic analysis. The text places emphasis on making informed choices from an array of competing options, and developing the confidence to do so. Shows the use of standard, empirical, and classical methods in support of the design process Explains the preparation of a professional quality design report Provides a sample outline of a design report Can be used in conjunction with Sforza, Commercial Aircraft Design Principles to form a complete course in Aircraft/Spacecraft Design

Business Strategy Formulation for National Aircraft Company (Case Study in Indonesia) - Angga Ranggana Putra, S.A.B., MBA 2022-02-18

Indonesia is an archipelagic country. The movement of goods and people is not as easy as in mainland countries. Various transportation options can be used in Indonesia, such as land, sea, and air. Land transportation, although relatively affordable, takes quite a long time. Land delivery times even incur a variety of unexpected costs. Sea transportation is also the same; it takes a long time to get to the destination. Thus, air transportation is the most effective option for smooth distribution. With air transportation, goods and people will be more effective and efficient. This book contains business strategies for the national aircraft industry to compete with other commercial aircraft manufacturers from developed and developing countries. In addition, this book is expected to provide knowledge to the national aircraft industry to obtain financial support from investors and companies in other related fields.

The World's Most Powerful Civilian Aircraft - Paul E. Eden 2016-12-15

The World's Most Powerful Civilian Aircraft profiles many types, from cargo transports and freighters, through flying boats, passenger airliners, and business jets. Featured aircraft include the Ford Trimotor “Tin Goose,” one of the great workhorses of early aviation history; the supersonic Tupolev Tu-144 “Charger” and Concorde, Cold War competitors in aviation excellence; and the most popular passenger aircraft of the present, including the Boeing 747 and Airbus A380. Each entry includes a brief description of the model’s development and history, a profile view, key features, and specifications. Packed with more than 200 artworks and photographs, this is a colorful guide for the aviation enthusiast.

Aviation and Climate Change - Frank Fichert 2020-05-19

This book analyses the political, economic and managerial challenges for policy makers and the air transport industry as they face climate change. Based on an overview of the scientific background and technological options for emissions reduction, Aviation and Climate Change provides an in-depth assessment of environmental regulation and management. It provides an up-to-the-minute analysis of the effects of aviation on

climate change, and an economic analysis of policies to reduce or eliminate greenhouse gas emissions. The main emphasis of the book is on the economic mechanisms used to lessen emissions – carbon taxes, emissions trading schemes and offset schemes. It pays particular attention to the ways these policies work, and to the interaction between them – for instance, the interaction between taxes and emissions trading schemes. One feature of the book is that it analyses the Carbon Offsetting and Reduction Scheme for International Aviation (CORSIA) which has been developed by ICAO for international aviation, and which is due to commence operation shortly. The advantages and disadvantages of this controversial scheme are discussed. This book will be of interest to researchers in diverse areas (economics, political science, engineering, natural sciences), to air transport policy makers, and to managers in the aviation industry.