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Air Transport Law and Policy in the 1990s Springer Nature

Because of the important national defense contribution of large, non-fighter aircraft, rapidly increasing fuel costs and increasing dependence on imported oil have triggered significant interest in increased aircraft engine efficiency by the U.S. Air Force. To help address this need, the Air Force asked the National Research Council (NRC) to examine and assess technical options for improving engine efficiency of all large non-fighter aircraft under Air Force command. This report presents a review of current Air Force fuel consumption patterns; an analysis of previous programs designed to replace aircraft engines; an examination of proposed engine modifications; an assessment of the potential impact of alternative fuels and engine science and technology programs, and an analysis of costs and funding requirements.

Advances in Energy and

Combustion National Academies Press

Includes documents, news items, reports from government agencies, legislative proposals, summary of laws, and public statements intended to provide an overview of the critical issues in today's policy debate. Both sides of an issue are fairly presented. Includes: wiretapping and digital telephony (FBI report on implementing the Communications Assist. for Law Enforce. Act); the clipper chip debate (public key status report; clipper encryption); key escrow (clipper III analysis), and export controls (internat. market for computer software with encryption).

Jet-set Elodie Roux

This book analyzes China's foreign technology acquisition activity and how this has helped its rapid rise to superpower status. Since 1949, China has operated a vast and unique system of foreign technology spotting and transfer aimed at accelerating civilian and military development, reducing the cost of basic research, and shoring up its power domestically and abroad—without running the political risks borne by liberal societies as a basis for their creative developments. While discounted in some circles as derivative and consigned to perpetual catch-up mode, China's "hybrid" system of legal, illegal, and extralegal import of foreign technology, combined with its indigenous efforts, is, the authors believe, enormously effective and must be taken seriously. Accordingly, in this volume, 17 international specialists combine their scholarship to portray the system's structure and functioning in heretofore unseen detail, using primary Chinese sources to demonstrate the perniciousness of the problem in a manner not likely to be controverted. The book concludes with a series of recommendations culled from the authors' interactions with experts worldwide. This book will be of much interest to students of Chinese politics, US foreign policy, intelligence studies, science and technology studies, and International Relations in general.

Proceedings of the ... Congress of the International Council of the Aeronautical Sciences CRC Press Aircraft Propulsion and Gas Turbine Engines, Second Edition builds upon the success of the book's first edition, with the addition of three major topic areas: Piston Engines with integrated propeller coverage; Pump Technologies; and Rocket Propulsion. The rocket propulsion section extends the text's coverage so that both Aerospace and Aeronautical topics can be studied and compared. Numerous updates have been made to reflect the latest advances in turbine engines, fuels, and combustion. The text is now divided into three parts, the first two devoted to air breathing engines, and the third covering non-air breathing or rocket engines.

Jane's All the World's Aircraft John Wiley & Sons

This proceeding comprises peer-reviewed papers of the 2021 Asia-Pacific International

Symposium on Aerospace Technology (APISAT 2021), held from 15-17 November 2021 in Jeju, South Korea. This book deals with various themes on computational fluid dynamics, wind tunnel testing, flow visualization, UAV design, flight simulation, satellite attitude control, aeroelasticity and control, combustion analysis, fuel injection, cooling systems, spacecraft propulsion and so forth. So, this book can be very helpful not only for the researchers of universities and academic institutes, but also for the industry engineers who are interested in the current and future advanced topics in aerospace technology.

China's Quest for Foreign Technology Routledge

Aircraft Financing and Leasing: Tools for Success in Aircraft Acquisition and Management provides researchers, industry professionals and students with a thorough overview of the skills necessary for navigating this dynamic field. The book details the industry's foundational concepts, including aviation law and regulation, airline credit analysis, maintenance reserves, insurance, transaction cost modeling, risk management tools, such as fuel hedging, and the art of lease negotiations. Different types of aircraft are explored, highlighting their purposes, as well as when and why airline operators choose specific models over others. In addition, the book also covers important factors, such as maintenance reserve development, modeling financial returns for leased aircraft, and appraising aircraft values.

Most chapters feature detailed case studies, applying concepts to actual industry circumstances. Users will find this an ideal resource for practitioners or as an outstanding reference for senior undergraduate and graduate students. Presents the foundations of aircraft leasing and financing, including aviation law and regulation, airline credit analysis, maintenance reserves, insurance, transaction cost modeling, and more Provides an overview of the different types of aircraft, their purposes, and when and why operators choose specific models over others Offers a blend of academic and professional views, making it suitable for both student and practitioner Serves as an aircraft finance and leasing reference

for those starting their careers, as well as for legal, investment, and other professionals

The World's Greatest Civil Aircraft Springer Nature

This is the second edition of Cumpsty's excellent self-contained introduction to the aerodynamic and thermodynamic design of modern civil and military jet engines. Through two engine design projects, first for a new large passenger aircraft, and second for a new fighter aircraft, the text introduces, illustrates and explains the important facets of modern engine design. Individual sections cover aircraft requirements and aerodynamics, principles of gas turbines and jet engines, elementary compressible fluid mechanics, bypass ratio selection, scaling and dimensional analysis, turbine and compressor design and characteristics, design optimization, and off-design performance. The book emphasises principles and ideas, with simplification and approximation used where this helps understanding. This edition has been thoroughly updated and revised, and includes a new appendix on noise control and an expanded treatment of combustion emissions. Suitable for student courses in aircraft propulsion, but also an invaluable reference for engineers in the engine and airframe industry.

Novel Combustion Concepts for Sustainable Energy Development AIAA

Depot MaintenanceDIANE

PublishingDepot MaintenanceImproving the Efficiency of Engines for Large Nonfighter AircraftNational Academies Press

Flight International Springer

This book presents an overall picture of both B2B and B2C marketing strategies, concepts and tools, in the aeronautics sector. This is a significant update to an earlier book successfully published in the nineties which was released in Europe, China, and the USA. It addresses the most recent trends such as Social Marketing and the internet, Customer Orientation, Project Marketing and Current Engineering, Coopetition, and Extended Enterprise. Aerospace Marketing Management is the first marketing handbook richly illustrated with executive and expert inputs as well as examples from parts suppliers, aircraft builders, airlines, helicopter manufacturers, aeronautics service providers, airports, defence and military companies, and industrial integrators (tier-1, tier-2). This book is designed as a ready reference for professionals and graduates from both Engineering and Business Schools.

Global Engineering, Manufacturing and Enterprise Networks DIANE Publishing

The availability of effective global communication facilities in the last decade has changed the business goals of many manufacturing enterprises. They need to remain competitive by developing products and processes which are specific to individual requirements, completely packaged and manufactured globally. Networks of

enterprises are formed to operate across time and space with world-wide distributed functions such as manufacturing, sales, customer support, engineering, quality assurance, supply chain management and so on. Research and technology development need to address architectures, methodologies, models and tools supporting intra- and inter-enterprise operation and management. Throughout the life cycle of products and enterprises there is the requirement to transform information sourced from globally distributed offices and partners into knowledge for decision and action. Building on the success of previous DrrSM conferences (Tokyo 1993, Eindhoven 1996, Fort Worth 1998), the fourth International Conference on Design of Information Infrastructure Systems for Manufacturing (DrrSM 2000) aims to:

- Establish and manage the dynamics of virtual enterprises, define the information system requirements and develop solutions;
- Develop and deploy information management in multi-cultural systems with universal applicability of the proposed architecture and solutions;
- Develop enterprise integration architectures, methodologies and information infrastructure support for reconfigurable enterprises;
- Explore information transformation into knowledge for decision and action by machine and skilful people;

These objectives reflect changes of the business processes due to advancements of information and communication technologies (ICT) in the last couple of years.

Starting Something Big Amber Books Ltd

Commercial air travel began just over a century ago. In that time there have been groundbreaking civilian aircraft, such as flying boats, the first pressurized cabin aircraft, jet and supersonic aircraft, as well as immense changes in the capacity of a typical airliner: in the 1920s aircraft struggled to carry 20 passengers, but today some models can carry up to 800 people. *The World's Greatest Civil Aircraft* includes many types, from cargo transports and freighters, through flying boats, passenger airliners, business jets and supersonic carriers. Featured aircraft include: the Ford Trimotor 'Tin Goose', one of the great workhorses of early aviation history; the first post-war intercontinental airliners, such as the Douglas DC-4 Skymaster, De Havilland Comet and Boeing 377 Stratocruiser; the Vickers VC10, one of the greats of the 1960s golden age of commercial airliners, when jet-powered air commerce was new and airliners pampered passengers; the massive Super Guppy heavy transport, one of the widest aircraft in aviation history; the supersonic Tupolev Tu-144 'Charger' and Concorde, Cold War

competitors in aviation excellence; the Embraer ERJ, part of a new range of narrow-bodied airliners; and the most popular passenger aircraft of the present, including the Boeing 747 and Airbus A320. 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, *The World's Greatest Civil Aircraft* is a colourful guide for the aviation enthusiast.

Springer Science & Business Media

Written by a former, long-time international manager of General Electric Company, this volume offers a history of the political and market forces affecting the engine industry, GE's role in the changes, and how GE converted itself from military to commercial markets, with conclusions drawn for potential investors in the industry. Annotation copyrighted by Book News, Inc., Portland, OR

Journal of Defense & Diplomacy Springer

This book provides state-of-the-art advances in several areas of importance in energy, combustion, power, propulsion, environment using fossil fuels and alternative fuels, and biofuels production and utilization. Availability of clean and sustainable energy is of greater importance now than ever before in all sectors of energy, power, mobility and propulsion. Written by internationally renowned experts, the latest fundamental and applied research innovations on cleaner energy production as well as utilization for a wide range of devices extending from micro scale energy conversion to hypersonic propulsion using hydrocarbon fuels are provided. The tailored technical tracks and contributions from the world renowned technical experts are portrayed in the respective field to highlight different but complementary views on fuels, combustion, power and propulsion and air toxins with special focus on current and future R&D needs and activities. The energy and environment sustainability require a multi-pronged approach involving development and utilization of new and renewable fuels, design of fuel-flexible combustion systems that can be easily operated with the new fuels, and develop novel and environmentally friendly technologies for improved utilization of all kinds of gas, liquid and solid fuels. This volume is a useful book for practicing engineers, research engineers and managers in industry and research labs, academic institutions, graduate students, and final year undergraduate students in Mechanical, Chemical, Aerospace, Energy and Environmental Engineering.

Charlotte/Douglas International Airport

Cambridge University Press

"Air Transport Law and Policy in the 1990s" is a collection of articles by distinguished experts in the field of international civil aviation, airport management and aircraft manufacturing. It gives an insight into the most topical developments related to the airline industry, environment and

infrastructure, multilateral trends in international air transport and aircraft production, finance and airworthiness. The subjects concerned are dealt with from a policy, legal, economic and technical perspective and have as an objective to indicate trends for the next decade. "Pablo Mendes de Leon" is Director of the International Institute of Air and Space Law at Leiden University and a Board Member of the Netherlands Civil Aviation Foundation (Stichting Burgerluchtvaart). The Foundation has as its objective to promote the study of civil aviation from both a Dutch and an international perspective. "Emilie Aberson" is a member of the Legal Division of the Netherlands Department of Civil Aviation.

Ceramic Matrix Composites Martinus Nijhoff Publishers

Covering an important material class for modern applications in the aerospace, automotive, energy production and creation sectors, this handbook and reference contains comprehensive data tables and field reports on successfully developed prototypes. The editor and authors are internationally renowned experts from NASA, EADS, DLR, Porsche, MT Aerospace, as well as universities and institutions in the USA, Europe and Japan, and they provide here a comprehensive overview of current R & D with an application-oriented emphasis.

Aircraft Propulsion and Gas Turbine Engines Depot Maintenance

This book provides a comprehensive basics-to-advanced course in an aero-thermal science vital to the design of engines for either type of craft. The text classifies engines powering aircraft and single/multi-stage rockets, and derives performance parameters for both from basic aerodynamics and thermodynamics laws. Each type of engine is analyzed for optimum performance goals, and mission-appropriate engines selection is explained. Fundamentals of Aircraft and Rocket Propulsion provides information about and analyses of: thermodynamic cycles of shaft engines (piston, turboprop, turboshaft and propfan); jet engines (pulsejet, pulse detonation engine, ramjet, scramjet, turbojet and turbofan); chemical and non-chemical rocket engines; conceptual design of modular rocket engines (combustor, nozzle and turbopumps); and conceptual design of different modules of aero-engines in their design and off-design state. Aimed at graduate and final-year undergraduate students, this textbook provides a thorough grounding in the history and classification of both aircraft and rocket engines, important design features of all the engines detailed, and particular consideration of special aircraft such as unmanned aerial and short/vertical takeoff and landing aircraft. End-of-chapter exercises make this a valuable student resource, and the provision of a downloadable

solutions manual will be of further benefit for course instructors.

Interavia DARcorporation

This book comprises research studies of novel work on combustion for sustainable energy development. It offers an insight into a few viable novel technologies for improved, efficient and sustainable utilization of combustion-based energy production using both fossil and bio fuels. Special emphasis is placed on micro-scale combustion systems that offer new challenges and opportunities. The book is divided into five sections, with chapters from 3-4 leading experts forming the core of each section. The book should prove useful to a variety of readers, including students, researchers, and professionals.

Energy DIANE Publishing

The Proceedings of the 2021 Asia-Pacific International Symposium on Aerospace Technology (APISAT 2021), Volume 2
Springer

Advances in Aeronautical Sciences; Proceedings