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Airbus A380 Superjumbo of the 21st Century Zenith Imprint A revealing, behind-the-scenes look at the development of the biggest commercial aircraft ever built. With 200 colour photos, this book takes readers through the drama of the A380 project, introducing all the key players and unravelling the controversies surrounding its development. **Super Jumbo Jets Inside and Out The Rosen Publishing Group, Inc** This book will give students an understanding of the history of flight right up to the technology and scientific discoveries that allow us to fly planes as large as today's super jumbo jets. How are airplanes designed so they can operate safely? What is the future of flight? All of these questions and more will be answered as students take a look at super jumbo jets, inside and out! **Jet Propulsion A Simple Guide to the Aerodynamic and Thermodynamic Design and Performance of Jet Engines Cambridge University Press** 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. **NASA's Contributions to Aeronautics: Aerodynamics, structures, propulsion, controls** Two-volume collection of case studies on aspects of NACA-NASA research by noted engineers, airmen, historians, museum curators, journalists, and independent scholars. Explores various aspects of how NACA-NASA research took aeronautics from the subsonic to the hypersonic era.-publisher description. **NASA's Contributions to Aeronautics** Two-volume collection of case studies on aspects of NACA-NASA research by noted engineers, airmen, historians, museum curators, journalists, and independent scholars. Explores various aspects of how NACA-NASA research took aeronautics from the subsonic to the hypersonic era.-publisher description. **NASA's Contributions to Aeronautics, Volume 1, Aerodynamics Structures ,... NASA/SP-2010-570-Vol 1, 2010, * 2015 Premium Stories AirInsight** 48 commercial aviation premium stories from AirInsight **2014 Premium Stories AirInsight** Fifty two weeks of our Premium Content in an annual form **The Airbus A380 A History Pen and Sword** Every 7 minutes, an A380 takes off or lands somewhere in the world...The Airbus was initially designed and developed in order to provide a contender to the Boeing's growing monopoly of the skies in the biggest large-aircraft market in the world. Ambitious in design, the undertaking seemed mammoth. Yet scores of aviation engineers and pilots worked to get the design off the ground and the Airbus in our skies. This double-decker, wide-body, 4 engine jet airliner promised to redefine expectations when it came to commercial flight. Five years on from its launch, Graham Simons provides us with this, an impressively illustrated narrative history of the craft, its achievements, and the legacy it looks set to provide to a new generation of aviation engineers, enthusiasts and passengers.Operated by airlines such as Emirates, Singapore Airlines, Quantas and Lufthansa, the story of the A380 could be said to represent the story of modern-day travel itself, characterised by major technological advances across the world that constantly push the boundaries of expectation. Sure to appeal broadly across the market, this is very much a commemorative volume, preserving the history of this iconic craft in words and images. **Advanced Transport Systems Analysis, Modeling, and Evaluation of Performances Springer Science & Business Media** This book provides a systematic analysis, modeling and evaluation of the performance of advanced transport systems. It offers an innovative approach by presenting a multidimensional examination of the performance of advanced transport systems and transport modes, useful for both theoretical and practical purposes. Advanced transport systems for the twenty-first century are characterized by the superiority of one or several of their infrastructural, technical/technological, operational, economic, environmental, social and policy performances as compared to their conventional counterparts. The advanced transport systems considered include: Bus Rapid Transit (BRT) and Personal Rapid Transit (PRT) systems in urban area(s), electric and fuel cell passenger cars, high speed tilting trains, High Speed Rail (HSR), Trans Rapid Maglev (TRM), Evacuated Tube Transport system (ETT), advanced commercial subsonic and Supersonic Transport Aircraft (STA), conventionally- and Liquid Hydrogen (LH2)-fuelled commercial air transportation, advanced Air Traffic Control (ATC) technologies and procedures for increasing the airport runway capacity, Underground Freight Transport (UFT) systems in urban area(s), Long Intermodal Freight Train(s) (LIFTs), road mega trucks, large advanced container ships and freight/cargo aircraft and advanced freight/goods collection distribution networks. This book is intended for postgraduates, researchers, professionals and policy makers working in the transport industry. **Purchasing and Supply Chain Management A Sustainability Perspective Routledge** This is the ground-breaking new book for aspiring purchasing and supply chain leaders and anyone with a keen interest in this rapidly evolving field. For too long business has focused on short-term cost advantages through low-cost country sourcing with little regard for the longer-term implications of global sustainability. As the first book to fully address the environmental, social and economic challenges of how companies manage purchasing and supply chains, it aims to inspire the development of current and future purchasing and supply chain leaders. In addition to explaining the basic principles and processes of both purchasing and supply chain management, the book evaluates how to develop strategic and sustainable purchasing and supply chain management. A key message is that purchasing and supply chain management needs to focus on value creation rather than cost cutting. This requires the development of completely new

purchasing and supply chain models that involve closed-loop supply structures, supply chain transparency and collaboration with new stakeholders in traditional sourcing and supply chain processes. Aimed at students, educators and practitioners the book integrates sustainability into each chapter as a core element of purchasing and supply chain management. Incorporating case studies from industry into each chapter, the book strikes a balance between theoretical frameworks and guidelines for implementation in practice. **The A380neo Business Case AirInsight** There is significant market pressure coming from Emirates for Airbus to offer an A380neo. Airbus cannot ignore this pressure, because the A380 program is in need of more sales, and currently Emirates represents the shortest path to such orders. An A380neo should be attractive to other A380 operators as well as other airlines considering VLAs. The VLA segment as a niche but is also valid market. This view puts the focus on order volume, rather than order revenues. VLA s have a historical average (1975-2014) order market share of 4%. Based on both the Airbus and Boeing forecast fleet size for 2033 we estimate the VLA segment to be ~1,000 aircraft. **Popular Mechanics** Popular Mechanics inspires, instructs and influences readers to help them master the modern world. Whether it’s practical DIY home-improvement tips, gadgets and digital technology, information on the newest cars or the latest breakthroughs in science -- PM is the ultimate guide to our high-tech lifestyle. **Aerospace Engineering MEED. Mantelstromtriebwerk Eurojet Ej200, Rolls-Royce Trent, Mantelstromtriebwerk, General Electric Cf6, General Electric Ge90, General Electric University-Press.org** Dieser Inhalt ist eine Zusammensetzung von Artikeln aus der frei verfugbaren Wikipedia-Enzyklopadie. Seiten: 49. Kapitel: Eurojet EJ200, Rolls-Royce Trent, Mantelstromtriebwerk, General Electric CF6, General Electric GE90, General Electric GEnx, Pratt & Whitney F100, CFM International LEAP-X, Honeywell TFE731, Tumanski R-11, Klimow RD-33, Pratt & Whitney PW1000G, General Electric F414, Pratt & Whitney Canada JT15D, Rolls-Royce BR700, Rolls-Royce Pegasus, Rolls-Royce Tay, Williams International FJ44, Engine Alliance GP7200, International Aero Engines, Rolls-Royce Turbomeca Adour, Pratt & Whitney PW4000, CFM International CFM56, Pratt & Whitney JT8D, Saturn AL-31, Rolls-Royce RB.211, CFE738, Rolls-Royce Spey, General Electric TF34, GarrettAiResearch ATF3, Pratt & Whitney Canada PW300, Pratt & Whitney PW6000, Iwtschenko Progress D-436, Pratt & Whitney Canada PW600F, SNECMA M53, Solowjow D-30, Pratt & Whitney Canada PW500, Turbo-Union RB199, Pratt & Whitney F119, PowerJet SaM146, Pratt & Whitney JT9D, Honeywell HTF7000, Williams International FJ33, Awiadwigatel PS-90, Kusnezow NK-93, Tumanski R-13, Pratt & Whitney JT3D, General Electric F110, General Electric F404, Saturn AL-41, Rolls-Royce Conway, Rolls-Royce AE 3007, Iwtschenko Progress D-36, GE Honda HF120, Pratt & Whitney F135, Tumanski R-25, General Electric F101, Pratt & Whitney PW2000, General Electric F118, Solowjow D-20. Auszug: Das Eurojet EJ200 ist ein Turbofantriebwerk des europaischen Herstellerkonsortiums Eurojet. Das Triebwerk wurde speziell fur das Eurofighter-Programm entwickelt, Zielsetzung war dabei ein kosteneffektives Triebwerk mit geringen Lebenszykluskosten. Um das Ziel zu erreichen wurde auf die traditionelle Methode der Wartungsintervalle verzichtet und statt dessen eine moderne Triebwerksuberwachungseinheit (engl. Engine Monitoring Unit, kurz EMU) eingebaut. Damit konnte die Einsatzdauer ohne Sicherheitseinbussen verdoppelt werden. Rolls-Royce entwickelte 1984 das.. **The World's Most Powerful Civilian Aircraft The Rosen Publishing Group, Inc** 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. **Aircraft Propulsion and Gas Turbine Engines 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. **Gas Turbine Theory Pearson Education** "In recent years the gas turbine, in combination with the steam turbine, has played an ever-increasing role in power generation. Despite the rapid advances in both output and efficiency, the basic theory of the gas turbine has remained unchanged. The layout of this new edition is broadly similar to the original, but greatly expanded and updated, comprising an outline of the basic theory, aerodynamic design of individual components, and the prediction of off-design performance. The addition of a chapter devoted to the mechanical design of gas turbines greatly enhances the scope of the book."--Publisher's website. **The World's Greatest Civil Aircraft An Illustrated History 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. **Getriebeturbofan und konventioneller Turbofan: Ein Vergleich auf der Basis station„rer Leistungsrechnungen Diplomica Verlag** Eine der zentralen Forderungen an zuk□nftige Triebwerke ist eine gesteigerte Effizienz. Dies kann bei einem Turbofan durch eine Anhebung des Nebenstromverh„ltnisses erreicht werden. Dieser Steigerung sind f□r einen direkt angetriebenen Turbofan Grenzen gesetzt, sodass dies in naher Zukunft nur mit Konzepten wie dem Getriebeturbofan zu erreichen ist. Obwohl der Einbau eines Reduktionsgetriebes trivial anmutet, wird sich zeigen, dass die Auswirkungen auf die restlichen Teile des Triebwerks teils enorm sind und ver„nderte Ans„tze erfordern. Zum Verst„ndnis der Schwierigkeiten, die das Konzept bisher bereitet hat und zur Vorstellung von L”sungen, werden die bisher realisierten bzw. gescheiterten Getriebeturbofans vorgestellt.

Ausgehend von der Fragestellung, ob ein vorhandener Triebwerkskern eher in einen konventionellen Turbofan oder in einen Getriebeturbofan integriert werden sollte, wird eine station„re Leistungsrechnung im Auslegungspunkt durchgef□hrt, die um zwei Missionsanalysen erg„nzt wird. Zuletzt wird das Gewicht eines der Getriebe anhand von empirischen Relationen gesch„tzt. **The Power for Flight NASA's Contributions to Aircraft Propulsion Government Printing Office** The NACA and aircraft propulsion, 1915-1958 -- NASA gets to work, 1958-1975 -- The shift toward commercial aviation, 1966-1975 -- The quest for propulsive efficiency, 1976-1989 -- Propulsion control enters the computer era, 1976-1998 -- Transiting to a new century, 1990-2008 -- Toward the future **Airbus A380 Air World** On 27 April 2005, an aircraft lifted away from the runway of Toulouse-Blagnac Airport under the power of six massive Rolls-Royce Trent 900 turbofan engines. It carried a six-man crew, it was making its first flight, and it was making history. For this was the Airbus A380, the largest passenger aircraft in the world. Airbus Industrie was a latecomer to the commercial airliner market, and initially struggled to win orders away from the well-established US giants, Boeing and McDonnell Douglas. Part of Airbus's strategy for success was to offer customers distinct families of aircraft that could be tailored to meet a wide range of performance and capacity demands. Before 2005, the largest and arguably most important members of this family strategy were the Airbus A330 and 340 high-capacity airliners; then along came the A380. With air traffic continuing to double every 15 years, the A380 was designed to meet the needs of the passengers and airports, while also delivering the level of efficiency necessary to protect the environment for future generations. The design incorporated two full-length decks with wide-body dimensions, meaning its two passenger levels offered an entire deck's worth of additional space compared to the next largest twin-engine jetliner. With more seats than any other aircraft, the A380 offered solutions to overcrowding; needing fewer journeys to carry 60 percent more passengers, making it the perfect solution to airport congestion, fleet planning optimization and traffic growth. Typical seating capacity was 525, although the aircraft was certified to carry up to 853 passengers. By mid-2019, fifteen airlines were operating 238 aircraft throughout the world, the original customer being Singapore Airlines, which launched its first A380 service in October 2007. Production of the A380 peaked at 30 aircraft per year in 2012 and 2014. Then, in February 2019, the biggest customer, Emirates, announced that it was to reduce its latest order by 39 aircraft in favour of two other Airbus Models, the A350 and A330neo, a version using the same engines as the Boeing 787 Dreamliner. For Airbus, it was the last act. The Company announced that production of the A380 would cease by 2021. **Korea Economic Report Aircraft & Aerospace Asia-Pacific Kites, Birds & Stuff - Aircraft of GERMANY - A to D Lulu.com** The Aviation history of German aircraft from the very early days to the present. Details on around 1,438 aircraft. From the 1st.World war types and the 2nd. World war aircraft. Fighters, bombers, reconnaissance, trainers and civil types, plus numerous other types. Landplanes, seaplanes, airships, rockets, bombs - lots of stuff. An archive of information. The series of books comes in four volumes. In this volume some of the larger companies include: - AEG - AGO - Airbus - Albatros - Arado - Aviatik - BFW - Blohm und Voss - Brandenburg - Dornier + many others. There are around - 575 pictures & 143 plan diagrams. Enjoy **Kites, Birds & Stuff - Over 150 Years of British Aviation - Makers & Manufacturers - Volume 1 - A to C Lulu.com** A history of pioneers and companies of Great Britain. From the early years to the modern day. A comprehensive study of old and new aircraft. (Already being used in various aviation museum archives }. **Aviation Week & Space Technology Advanced Materials & Processes The Global Commercial Aviation Industry Routledge** 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. **Gas Turbines A Handbook of Air, Land and Sea Applications Elsevier** Covering basic theory, components, installation, maintenance, manufacturing, regulation and industry developments, Gas Turbines: A Handbook of Air, Sea and Land Applications is a broad-based introductory reference designed to give you the knowledge needed to succeed in the gas turbine industry, land, sea and air applications. Providing the big picture view that other detailed, data-focused resources lack, this book has a strong focus on the information needed to effectively decision-make and plan gas turbine system use for particular applications, taking into consideration not only operational requirements but long-term life-cycle costs in upkeep, repair and future use. With concise, easily digestible overviews of all important theoretical bases and a practical focus throughout, Gas Turbines is an ideal handbook for those new to the field or in the early stages of their career, as well as more experienced engineers looking for a reliable, one-stop reference that covers the breadth of the field. Covers installation, maintenance, manufacturer's specifications, performance criteria and future trends, offering a rounded view of the area that takes in technical detail as well as well as industry economics and outlook Updated with the latest industry developments, including new emission and efficiency regulations and their impact on gas turbine technology Over 300 pages of new/revised content, including new sections on microturbines, non-conventional fuel sources for microturbines, emissions, major developments in aircraft engines, use of coal gas and superheated steam, and new case histories throughout highlighting component improvements in all systems and sub-systems. **Advanced Ceramic and Metallic Coating and Thin Film Materials for Energy and Environmental Applications Springer** This book explores the recent developments, perspectives on future research, and pertinent data from academia, industry, and government research laboratory to discuss fundamental mechanisms as well as processing and applications of advanced metallic and ceramic thin film and coating materials for energy and environmental applications. It is a platform to disseminate the latest research progress related to processing, characterization, and modelling. The authors address both thermal barrier and environmental coatings; magnetic and thermoelectric materials; and solar cell and solid oxide fuel cell materials. It is appropriate supplementary reading for students and primary reading for researchers in materials science and engineering. **Aircraft Propulsion John Wiley & Sons** New edition of the successful textbook updated to include new material on UAVs, design guidelines in aircraft engine component systems and additional end of

chapter problems Aircraft Propulsion, Second Edition follows the successful first edition textbook with comprehensive treatment of the subjects in airbreathing propulsion, from the basic principles to more advanced treatments in engine components and system integration. This new edition has been extensively updated to include a number of new and important topics. A chapter is now included on General Aviation and Uninhabited Aerial Vehicle (UAV) Propulsion Systems that includes a discussion on electric and hybrid propulsion. Propeller theory is added to the presentation of turboprop engines. A new section in cycle analysis treats Ultra-High Bypass (UHB) and Geared Turbofan engines. New material on drop-in biofuels and design for sustainability is added to refl ect the FAA's 2025 Vision. In addition, the design guidelines in aircraft engine components are expanded to make the book user friendly for engine designers. Extensive review material and derivations are included to help the reader navigate through the subject with ease. Key features: General Aviation and UAV Propulsion Systems are presented in a new chapter Discusses Ultra-High Bypass and Geared Turbofan engines Presents alternative drop-in jet fuels Expands on engine components' design guidelines The end-of-chapter problem sets have been increased by nearly 50% and solutions are available on a companion website Presents a new section on engine performance testing and instrumentation Includes a new 10-Minute Quiz appendix (with 45 quizzes) that can be used as a continuous assessment and improvement tool in teaching/learning propulsion principles and concepts Includes a new appendix on Rules of Thumb and Trends in aircraft propulsion Aircraft Propulsion, Second Edition is a must-have textbook for graduate and undergraduate students, and is also an excellent source of information for researchers and practitioners in the aerospace and power industry. **Aerothermodynamics and Jet Propulsion Cambridge University Press** This robust introduction to aerothermodynamics uses example-based teaching to provide students with a solid theoretical foundation linked to real-world engineering scenarios. **Gas Turbine Propulsion Systems John Wiley & Sons** Major changes in gas turbine design, especially in the design and complexity of engine control systems, have led to the need for an up to date, systems-oriented treatment of gas turbine propulsion. Pulling together all of the systems and subsystems associated with gas turbine engines in aircraft and marine applications, Gas Turbine Propulsion Systems discusses the latest developments in the field. Chapters include aircraft engine systems functional overview, marine propulsion systems, fuel control and power management systems, engine lubrication and scavenging systems, nacelle and ancillary systems, engine certification, unique engine systems and future developments in gas turbine propulsion systems. The authors also present examples of specific engines and applications. Written from a wholly practical perspective by two authors with long careers in the gas turbine & fuel systems industries, Gas Turbine Propulsion Systems provides an excellent resource for project and program managers in the gas turbine engine community, the aircraft OEM community, and tier 1 equipment suppliers in Europe and the United States. It also offers a useful reference for students and researchers in aerospace engineering. **Advanced Technologies for Gas Turbines National Academies Press** Leadership in gas turbine technologies is of continuing importance as the value of gas turbine production is projected to grow substantially by 2030 and beyond. Power generation, aviation, and the oil and gas industries rely on advanced technologies for gas turbines. Market trends including world demographics, energy security and resilience, decarbonization, and customer profiles are rapidly changing and influencing the future of these industries and gas turbine technologies. Technology trends that define the technological environment in which gas turbine research and development will take place are also changing - including inexpensive, large scale computational capabilities, highly autonomous systems, additive manufacturing, and cybersecurity. It is important to evaluate how these changes influence the gas turbine industry and how to manage these changes moving forward. Advanced Technologies for Gas Turbines identifies high-priority opportunities for improving and creating advanced technologies that can be introduced into the design and manufacture of gas turbines to enhance their performance. The goals of this report are to assess the 2030 gas turbine global landscape via analysis of global leadership, market trends, and technology trends that impact gas turbine applications, develop a prioritization process, define high-priority research goals, identify high-priority research areas and topics to achieve the specified goals, and direct future research. Findings and recommendations from this report are important in guiding research within the gas turbine industry and advancing electrical power generation, commercial and military aviation, and oil and gas production. **The Boy Who Didn't Cry FriesenPress** Two boys are kidnapped from the same renowned family. A search spanning four years for the first boy is fruitless; the second boy is then taken. A rescue mission with world-wide implications ensues. When Jennifer's child is kidnapped, she faces the consequences alone. After the event, her wealthy arms-dealer father secretly establishes and funds a Kidnap And Rescue Team (KART) for their local area in England. When the second family child along with a group of his friends is taken, the search for the missing children exposes an international child trafficking ring. Were the two separate kidnappings against the family a result of arms deals gone bad? And if the two kidnappings are connected—what happened to Jennifer's child who vanished four years ago? The rescue becomes an international drama for KART when the missing children from the second kidnap are tracked to a high-end sex hotel in Cambodia. Will Jennifer's and her family's far-reaching connections be enough to recover the children in the hotel? **Aircraft Valuation in Volatile Market Conditions Guiding Toward Profitability and Prosperity Springer Nature** This book provides indispensable knowledge for practitioners in aircraft financing. It presents an innovative framework that treats valuation analysis as a systematic effort in problem-solving directed at rational financial decision-making. It incorporates much of the modern approach to financial investment decision-making. It proposes essential tools of flexibility, adaptability, and commonality of aircraft financial analyses that apply to an almost infinite variety of valuation problem situations. Once these connections have been introduced, the reader will be equipped with an understanding of the underlying concepts of aircraft valuation processes and techniques and the subsequent financing alternatives available to fund aircraft assets. This is an essential book for airline professionals, aircraft leasing companies, consultants, bankers, government officials, and students of aircraft finance. It is an approachable resource for those without a formal background in finance. **The Development of Jet and Turbine Aero Engines Sutton Pub Limited** Using language understandable to those without an engineering background and avoiding complex mathematical formulae, Bill Gunston explains the differences between gas-turbine, jet, rocket, ramjet and helicopter turbo shaft aero engines and traces their histories from the early days through to today's complex and powerful units as used in the latest wide-bodied airliners and high performance military jets. **Elements of Gas Turbine Propulsion Amer Inst of Aeronautics &** This text provides an introduction to gas turbine engines and jet propulsion for aerospace or mechanical engineers. The text is divided into four parts: introduction to aircraft propulsion; basic concepts and one-dimensional/gas dynamics; parametric (design point) and performance (off-design) analysis of air breathing propulsion systems; and analysis and design of major gas turbine engine components (fans, compressors, turbines, inlets, nozzles, main burners, and afterburners). Design concepts are introduced early

(aircraft performance in introductory chapter) and integrated throughout. Written with extensive student input on the design of the book, the book builds upon definitions and gradually develops the thermodynamics, gas dynamics, and gas turbine engine principles.