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**KEY=GE90 - EATON OCONNOR**

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**FULL 3D ANALYSIS OF THE GE90 TURBOFAN PRIMARY FLOWPATH**

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**ULTRA EFFICIENT ENGINE DIAMETER STUDY**

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DIANE Publishing

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**FEDERAL REGISTER**

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**BOEING 777**

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**JETLINER FOR A NEW CENTURY**

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Zenith Press **Boeings advanced 777 is taking passengers through the millennium in style and with all the benefits of the latest design and technology. Here Philip Birtles details the 777's early design, manufacture, production and service record, offering an inside look at how the 777 works and how Boeing engineers made it happen. Contains line drawings and full technical specs.**

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## **THE POWER TO FLY**

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## **AN ENGINEER'S LIFE**

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AIAA "Brian H. Rowe took General Electric to world market leadership in commercial engines. A brilliant engineer, a sound businessman, and a popular leader, Rowe established relationships of trust with Boeing, Douglas, and Airbus and most most importantly, the world's airlines. He also worked effectively with the French industry and government."  
--book jacket.

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## **ADVANCES IN IC ENGINES AND COMBUSTION TECHNOLOGY**

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## **SELECT PROCEEDINGS OF NCICEC 2019**

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Springer Nature This book comprises select peer-reviewed proceedings of the 26th National Conference on IC Engines and Combustion (NCICEC) 2019 which was organised by the Department of Mechanical Engineering, National Institute of Technology Kurukshetra under the aegis of The Combustion Institute-Indian Section (CIIS). The book covers latest research and developments in the areas of combustion and propulsion, exhaust emissions, gas turbines, hybrid vehicles, IC engines, and alternative fuels. The contents include theoretical and numerical tools applied to a wide range of combustion problems, and also discusses their applications. This book can be a good reference for engineers, educators and researchers working in the area of IC engines and combustion.

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## **RESEARCH & TECHNOLOGY 1998**

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DIANE Publishing

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## **AIRBUS A380**

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## **SUPERJUMBO OF THE 21ST CENTURY**

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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.

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## **MODERN ENGINEERING THERMODYNAMICS**

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Academic Press **Designed for use in a standard two-semester engineering thermodynamics course sequence. The first half of the text contains material suitable for a basic Thermodynamics course taken by engineers from all majors. The second half of the text is suitable for an Applied Thermodynamics course in mechanical engineering programs. The text has numerous features that are unique among engineering textbooks, including historical vignettes, critical thinking boxes, and case studies. All are designed to bring real engineering applications into a subject that can be somewhat abstract and mathematical. Over 200 worked examples and more than 1,300 end of chapter problems provide the use opportunities to practice solving problems related to concepts in the text. Provides the reader with clear presentations of the fundamental principles of basic and applied engineering thermodynamics. Helps students develop engineering problem solving skills through the use of structured problem-solving techniques. Introduces the Second Law of Thermodynamics through a basic entropy concept, providing students a more intuitive understanding of this key course topic. Covers Property Values before the First Law of Thermodynamics to ensure students have a firm understanding of property data before using them. Over 200 worked examples and more than 1,300 end of chapter problems offer students extensive opportunity to practice solving problems. Historical Vignettes, Critical Thinking boxes and Case Studies throughout the book help relate abstract concepts to actual engineering applications. For greater instructor flexibility at exam time, thermodynamic tables are provided in a separate accompanying booklet. Available online testing and assessment component helps students assess their knowledge of the topics. Email [textbooks@elsevier.com](mailto:textbooks@elsevier.com) for details.**

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## **GENERAL ELECTRIC AIRCRAFT ENGINES**

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### **GENERAL ELECTRIC CF6, GENERAL ELECTRIC GENX, GENERAL ELECTRIC GE90, GENERAL ELECTRIC F414, GENERAL ELECTRIC J79, GE**

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University-Press.org **Please note that the content of this book primarily consists of articles available from Wikipedia or other free sources online. Pages: 24. Chapters: General Electric CF6, General Electric GENx, General Electric GE90, General Electric F414, General Electric J79, General Electric F404, General Electric YF120, General Electric T700, General Electric J85, General Electric F110, General Electric J47, General Electric TF39, General Electric GE38, General Electric CF34, General Electric T58, General Electric T31, General Electric T64, General Electric F118, General Electric**

CJ805, General Electric J31, General Electric F101, General Electric GE4, General Electric CF700, General Electric J73, General Electric CJ610, General Electric J97, General Electric GE36, General Electric TF34, General Electric YJ101. Excerpt: The General Electric CF6 is a family of high-bypass turbofan engines. A development of the first high-power high-bypass jet engine available, the TF39, the CF6 powers a wide variety of civilian airliners. The basic engine core formed the basis for the LM2500, LM5000, and LM6000 marine and power generation turboshaft. GE Aviation intends to replace the CF6 family with the GENx. CF6 high-bypass turbofan After the successful development in the late 1960s of the TF39 for the C-5 Galaxy, GE offered a more powerful development for civilian use as the CF6, and quickly found interest in two designs being offered for a recent Eastern Airlines contract, the Lockheed L-1011 and McDonnell Douglas DC-10. Although the L-1011 would eventually select the Rolls-Royce RB211, the DC-10 stuck with the CF6, and entered service in 1971. It was also selected for versions of the Boeing 747. Since then, the CF6 has powered versions of the Airbus A300, 310 and 330, Boeing 767, and McDonnell Douglas MD-11. The NTSB issued warnings regarding the cracking of the high pressure compressor in 2000 and failure of the low pressure turbine rotor disks in 2010. The CF6-6 was a development of...

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## **AIR TRANSPORT LAW AND POLICY IN THE 1990S**

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### **CONTROLLING THE BOOM**

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Martinus Nijhoff Publishers "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.

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### **AIRCRAFT PROPULSION AND GAS TURBINE ENGINES**

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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.

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## **HEADQUARTERS INTERCOM**

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## **PRIME MOVERS OF GLOBALIZATION**

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## **THE HISTORY AND IMPACT OF DIESEL ENGINES AND GAS TURBINES**

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MIT Press The story of how diesel engines and gas turbines, used to power cargo ships and jet airplanes, made today's globally integrated economy possible. The many books on globalization published over the past few years range from claims that the world is flat to an unlikely rehabilitation of Genghis Khan as a pioneer of global commerce. Missing from these accounts is a consideration of the technologies behind the creation of the globalized economy. What makes it possible for us to move billions of tons of raw materials and manufactured goods from continent to continent? Why are we able to fly almost anywhere on the planet within twenty-four hours? In *Prime Movers of Globalization*, Vaclav Smil offers a history of two key technical developments that have driven globalization: the high-compression non-sparking internal combustion engines invented by Rudolf Diesel in the 1890s and the gas turbines designed by Frank Whittle and Hans-Joachim Pabst von Ohain in the 1930s. The massive diesel engines that power cargo ships and the gas turbines that propel jet engines, Smil argues, are more important to the global economy than any corporate structure or international trade agreement. Smil compares the efficiency and scale of these two technologies to prime movers of the past, including the sail and the steam engine. The lengthy processes of development, commercialization, and diffusion that the diesel engine and the gas turbine went through, he argues, provide perfect examples of gradual technical advances that receive little attention but have resulted in epochal shifts in global affairs and the global economy.

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## **METALLURGICAL DESIGN AND INDUSTRY**

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## **PREHISTORY TO THE SPACE AGE**

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**Springer** This edited volume examines metallurgical technologies and their place in society throughout the centuries. The authors discuss metal alloys and the use of raw mineral resources as well as fabrication of engineered alloys for a variety of applications. The applications covered in depth include financial, mining and smelting, bridges, armor, aircraft, and power generation. The authors detail the multiple levels and scales of impact that metallurgical advances have had and continue to have on society. They include case studies with guidance for future research design and innovation of metallic materials relevant to societal needs. Includes case studies written by industry professionals with guidance for future research design and innovation; Demonstrates metal materials design that reflects relevant societal needs; Covers a broad range of applied materials used in aircraft, armor, bridges, and power generation, among others.

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## **ANNUAL PROGRESS REPORT**

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## **AERONAUTICS & SPACE TRANSPORTATION TECHNOLOGY**

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## **THREE PILLARS FOR SUCCESS, TURNING GOALS INTO REALITY : ANNUAL PROGRESS REPORT 1997-98**

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## **SUSTAINABLE ENGINEERING PRODUCTS AND MANUFACTURING TECHNOLOGIES**

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**Academic Press** Sustainable Engineering Products and Manufacturing Technologies provides the reader with a detailed look at the latest research into technologies that reduce the environmental impacts of manufacturing. All points where engineering decisions can influence the environmental sustainability of a product are examined, including the sourcing of non-toxic, sustainable raw materials, how to choose manufacturing processes that use energy responsibly and minimize waste, and how to design products to maximize reusability and recyclability. The subject of environmental regulation is also addressed, with references to both the US and EU and the future direction of legislation. Finally, sustainability factors are investigated alongside other product considerations, such as quality, price, manufacturability and functionality, to help readers design processes and products that are economically viable and environmentally friendly. Helps readers integrate product sustainability alongside functionality, manufacturability and cost Describes the latest technologies for energy efficient and low carbon manufacturing Discusses relevant environmental

regulations around the globe and speculates on future directions

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## **TESTBEDS, MOTHERSHIPS & PARASITES**

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### **ASTONISHING AIRCRAFT FROM THE GOLDEN AGE OF FLIGHT TEST**

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Specialty Press **Filling a void in major works about rare and exotic flight test aircraft, this book is the definitive work on the converted bombers and transports that served as the critically important launch vehicles to the headline-grabbing X-Planes. Covered are scores of aircraft of all types converted for use as "flying laboratories" to test engines, wings, cockpits, and aerodynamic devices all in the name of aviation progress. Also included are the "parasite" aircraft carried aloft to be launched and recovered by their motherships. The 12 detailed chapters in this book thoroughly cover every aspect of mothership, testbed, and parasite aircraft. Also featured are detailed appendices containing extensive reference material for modelers, historians, and enthusiasts, including a complete listing of known engine testbeds; a complete listing of known airframe mods and systems-test aircraft; and all combinations of U.S. and foreign motherships and parasite-carrying aircraft. Aviation history is filled with legendary aircraft, but in many cases, the design and development of these brilliant machines were dependent on significant inflight testing of new engines, advanced airframe structures, and the latest in flight control and flight-related systems. The availability of already-flying airframes that could be modified easily for specific airborne test work saved years of engineering time, not to mention the lives of countless test pilots who did not have to face airborne risks of the unknown.**

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### **NASA SPINOFF, 1996**

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DIANE Publishing **Summarizes NASA's current mainline programs whose objectives require development of new technology. Includes a representative sampling of spinoff products & processes that resulted from secondary application of NASA technology, in health & medicine, transportation, public safety, consumer/home/recreation, environment & resources management, computer technology, & manufacturing technology. Describes the various mechanisms NASA employs to stimulate technology transfer. Contains contact sources for further info. about the Technology Transfer Program.**

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## SPINOFF

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## JET PROPULSION

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### A SIMPLE GUIDE TO THE AERODYNAMIC AND THERMODYNAMIC DESIGN AND PERFORMANCE OF JET ENGINES

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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.

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## GREEN AVIATION

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John Wiley & Sons 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.

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## SYSTEMS MAINTAINABILITY

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Springer Science & Business Media Maintainability is of crucial importance throughout industry and is established as one

of the most important issues in the aerospace and defence arena. No new system can be introduced without full maintainability, analysis and demonstration; a type of analysis which reduces life cycle costs by decreasing operational and maintenance costs and increasing systems operational effectiveness, leading in turn to the creation of more competitive products. This book establishes the full methodology for maintainability mathematics and modelling, as well as the relationship between the maintainability and maintenance processes.

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## **POPULAR SCIENCE**

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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.

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## **BEYOND THE BLACK BOX**

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## **THE FORENSICS OF AIRPLANE CRASHES**

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[JHU Press](#) The black box is orange—and there are actually two of them. They house the cockpit voice recorder and the flight data recorder, instruments vital to airplane crash analyses. But accident investigators cannot rely on the black boxes alone. Beginning with the 1931 Fokker F-10A crash that killed legendary football coach Knute Rockne, this fascinating book provides a behind-the-scenes look at plane wreck investigations. Professor George Bibel shows how forensic experts, scientists, and engineers analyze factors like impact, debris, loading, fire patterns, metallurgy, fracture, crash testing, and human tolerances to determine why planes fall from the sky—and how the information gleaned from accident reconstruction is incorporated into aircraft design and operation to keep commercial aviation as safe as possible.

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## **ADVANCES IN ENERGY AND COMBUSTION**

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## **SAFETY AND SUSTAINABILITY**

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[Springer Nature](#) 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.

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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.

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## **A BRIEF HISTORY OF THE JET ENGINE AND JET AIRCRAFT**

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Laura H. Cansdell One hundred plus years of aviation jet aircraft design and the jet engines that took the inventions to the sky.

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## **POPULAR SCIENCE**

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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.

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## **THE "APOLLO" OF AERONAUTICS**

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## **NASA'S AIRCRAFT ENERGY EFFICIENCY PROGRAM, 1973-1987**

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U. S. National Aeronautics & Space Administration **The book covers the Aircraft Energy Efficiency (ACEE), consisting of six aeronautical projects born out of the energy crisis of the 1970s and divided between the Lewis and Langley Research Centers in Ohio and Virginia.**

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## **LIGHTWEIGHT COMPOSITE STRUCTURES IN TRANSPORT**

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### **DESIGN, MANUFACTURING, ANALYSIS AND PERFORMANCE**

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Woodhead Publishing **Lightweight Composite Structures in Transport: Design, Manufacturing, Analysis and Performance provides a detailed review of lightweight composite materials and structures and discusses their use in the transport industry, specifically surface and air transport. The book covers materials selection, the properties and performance of materials, and structures, design solutions, and manufacturing techniques. A broad range of different material classes is reviewed with emphasis on advanced materials. Chapters in the first two parts of the book consider the lightweight philosophy and current developments in manufacturing techniques for lightweight composite structures in the transport industry, with subsequent chapters in parts three to five discussing structural optimization and analysis, properties, and performance of lightweight composite structures, durability, damage tolerance and structural integrity. Final chapters present case studies on lightweight composite design for transport structures. Comprehensively covers materials selection, design solutions, manufacturing techniques, structural analysis, and performance of lightweight composite structures in the transport industry Includes commentary from leading industrial and academic experts in the field who present cutting-edge research on advanced lightweight materials for the transport industry Includes case studies on lightweight composite design for transport structures**

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## **FUNDAMENTALS OF AIRCRAFT AND ROCKET PROPULSION**

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Springer **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.

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## **TURBOFAN AND TURBOJET ENGINES**

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### **DATABASE HANDBOOK**

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Elodie Roux

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## **GAMMA TITANIUM ALUMINIDE ALLOYS**

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### **SCIENCE AND TECHNOLOGY**

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John Wiley & Sons The first book entirely dedicated to the topic emphasizes the relation between basic research and actual processing technologies. As such, it covers complex microstructures down to the nanometer scale, structure/property relationships and potential applications in key industries. From the contents: \* Constitution \* Thermophysical Constants \* Phase Transformations and Microstructures \* Deformation Behaviour \* Strengthening Mechanisms \* Creep \* Fracture Behaviour \* Fatigue \* Oxidation Resistance and Related Issues \* Alloy Design \* Ingot Production and Component Casting \* Powder Metallurgy \* Wrought Processing \* Joining \* Surface Hardening \* Applications and Component Assessment

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## **NASA'S FIRST A**

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### **AERONAUTICS FROM 1958 TO 2008**

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## **AT ANY COST**

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## **JACK WELCH, GENERAL ELECTRIC, AND THE PURSUIT OF PROFIT**

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Vintage A former reporter for The Wall Street Journal offers a critical account of the leadership of General Electric's Chief Executive Officer, Jack Welch, illustrating Welch's ruthless but successful "downsizing" and GE's questionable practices. Reprint. 20,000 first printing.

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## **PRICING WITH CONFIDENCE**

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## **10 WAYS TO STOP LEAVING MONEY ON THE TABLE**

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John Wiley & Sons Bad pricing is a great way to destroy your company's value, revenue, and profits. With ten simple rules, this book shows you how to deliver both healthy profit margins and robust revenue growth while kicking the dreaded discounting habit. The authors destroy the conventional wisdom that you have to trade margins for revenues and show you how to fully exploit the value your company offers customers. This is a proven plan for increasing sales without sacrificing profits.

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## **NUANCED ACCOUNT MANAGEMENT**

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## **DRIVING EXCELLENCE IN B2B SALES**

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Springer This book is a comprehensive practical guide for account managers, sales teams and account leaders operating in the B2B space. It provides knowledge to excel in developing, growing and retaining top accounts in local and global environments. With a nuanced version of 'account management' that will potentially be a game changer, the book offers a personnel-and-process based agenda that can create a 'competitive advantage' on its own.

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## **THE POWER FOR FLIGHT**

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## **NASA'S CONTRIBUTIONS TO AIRCRAFT PROPULSION**

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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**