Rolls Royce The Jet Engine 6th Edition

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Gas Turbines - Claire Soares 2014-10-23
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.
The Encyclopedia of the Korean War: A Political, Social, and Military History, 2nd Edition [3 volumes] - Spencer C. Tucker 2010-04-09
A multidimensional, multidisciplinary work on one of the least understood but most important conflicts in modern history. • 760 alphabetically organized entries covering all aspects of the Korean War era—military, political, economic, social, and cultural • Nearly 150 primary documents in a separate volume • More than 125 contributors, including both civilian professors from a wide range of disciplines as well as military officers • An updated historiographical essay compiled by Dr. Allan R. Millett, one of the nation's leading military historians and experts on the Korean War • More than 350 illustrations and 21 detailed maps • A chronology of the Korean War, a glossary, and a general bibliography
Making Jet Engines in World War II - Hermione Giffard 2016-10-10
Our stories of industrial innovation tend to focus on individual initiative and breakthroughs. Hermione Giffard uses the case of the development of jet engines to offer a different way of understanding technological innovation, revealing the complicated mix of factors that go into any decision to pursue an innovative, and therefore risky technology.
The Marine Corps Gazette - 1979

Aircraft Propulsion - Saeed Farokhi 2014-04-01
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.
Technical Data Digest - 1951

Gas Turbine Engineering Handbook - Meherwan P. Boyce 2017-09-01
The Gas Turbine Engineering Handbook has been the standard for engineers involved in the design, selection, and operation of gas turbines. This revision includes new case histories, the latest techniques, and new designs to comply with recently passed legislation. By keeping the book up to date with new, emerging topics, Boyce ensures that this book will remain the standard and most widely used book in this field. The new Third Edition of the Gas Turbine Engineering Hand Book updates the book to cover the new generation of Advanced gas Turbines. It examines the benefit and some of the major problems that have been encountered by these new turbines. The book keeps abreast of the environmental changes and the industries answer to these new regulations. A new chapter on case histories has been added to enable the engineer in the field to keep abreast of problems that are being encountered and the solutions that have resulted in solving them. Comprehensive treatment of Gas Turbines from Design to Operation and Maintenance. In depth treatment of Compressors with emphasis on surge, rotating stall, and choke; Combustors with emphasis on Dry Low NOx Combustors; and Turbines with emphasis on Metallurgy and new cooling schemes. An excellent introductory book for the student and field engineers A special maintenance section dealing with the advanced gas turbines, and special diagnostic charts have been provided that will enable the reader to troubleshoot problems he encounters in the field The third edition consists of many Case Histories of Gas Turbine problems. This should enable the field engineer to avoid some of these same generic problems
Jet Propulsion - Nicholas Cumpsty 2015-07-22
Now in its third edition, Jet Propulsion offers a self-contained introduction to the aerodynamic and thermodynamic design of modern civil and military jet engine design. Through two-engine design projects for a large passenger and a new fighter aircraft, the text explains modern engine design. Individual sections

cover aircraft requirements, 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 civil aircraft, which formed the core of Part I in the previous editions, has now been in service for several years as the Airbus A380. Attention in the aircraft industry has now shifted to two-engine aircraft with a greater emphasis on reduction of fuel burn, so the model created for Part I in this edition is the new efficient aircraft, a twin aimed at high efficiency.

The BMW Century, 2nd Edition - Tony Lewin 2022-07-19

The BMW Century details more than one hundred years of BMW from its historic aviation roots to today’s trend-setting cars and motorcycles.

Jet - John Golley 2009-12

In 12 April 1937 Frank Whittle became the first person to successfully start and run a turbojet engine. In May 1941 the engine took to the air in an experimental Gloster-Whittle aircraft, but despite the RAF's desperate need for air supremacy over her enemies, little support was forthcoming from the military establishment. It was the enthusiasm of the American General 'Hap' Arnold that took the next stage of development to the USA and within six months Whittle's invention was powering more American Jets than British. This is the story of the genius throttled by British government bureaucracy, for even when in 1943 Rolls-Royce became involved with the successful design and manufacture of engines based on Whittle's concepts, his company was nationalised and banned from engine production! Although gagged for decades by the secrecy of that period, the story can now be told in full and these revelations provide a fascinating insight into the attitudes of the wartime government and military establishment, attitudes that led to one of the greatest inventions of all time being offered freely to those who were to become Britain's main aircraft manufacturing competitors. This book was previously known as "Genesis of the Jet: Frank Whittle and the invention of the Jet Engine." As part of this new release we have included a supplement by Ian Whittle and a copy of the patents submitted in Germany by Sir Frank Whittle back in 1932.

Aerospace - 1988

Flying Magazine - 1949-12

The Day of the Typhoon - John Golley 1986

This account of rocket Typhoon operations over Normandy in the weeks immediately following the D-Day Invasion of Europe aims to be all the more interesting for its authenticity. It is written by a former ground attack pilot who flew 73 missions with 245 Squadron over Northern France in 1944-45.

Rolls-Royce: The Magic of a Name - Peter Pugh 2015-10-01

The Magic of a Name tells the story of the first forty years of Britain’s most prestigious manufacturer – Rolls-Royce. Beginning with the historic meeting in 1904 of Henry Royce and C.S. Rolls, and the birth in 1906 of the legendary Silver Ghost, Peter Pugh tells a story of genius, skill and dedication that gave the world cars and aeroengines unrivalled in their excellence. In 1915, 100 years ago, Royce produced the first of many aero engines, the Eagle, which proved itself in battle in the First World War. Twenty-five years later, the totemic Merlin was installed in the Spitfire and built in a race against time to help win the Battle of Britain. With unrivalled access to the company’s archives, this is a unique portrait of both an iconic name and of British industry at its best.

Review of Defense-related Vertical and Short Takeoff and Landing (V/STOL) Aircraft Programs - Walter Z. Collings 1979

Airline Transport Pilot: Complete Note Collection - Carsten Borgen 2020-04-02

In its 6th edition, The Airline Transport Pilot: Complete Note Collection book is a culmination of more than 10 years of research and writing. What started out as a personal note collection for my ATPL studies later became a compilation of information benefiting pilots around the world. If you have acquired this book it means you are interested in being the best pilot, you can possibly be. Being the best pilot, requires a continuously never-ending dedication to learning and revising, from the time you first step into the classroom till the day you retire from aviation. “As we aspire to become better and safer, we must never forget the knowledge and skills we have already acquired” - Carsten Borgen You will be familiar with most of the information in this book, but over time that information will slowly fade away. As a professional pilot it is crucial to keep this knowledge sharp but going through all the ATPL subject publications again and again, would be an endless task. This book is written as a quick reference guide to pilots and aviation enthusiasts, in an effort to simplify the process of staying current and revising the theory you have already learned while adding to that knowledge. Using this book you can within a couple of hours revise a complete subject matter. Whether you have acquired this book to remain current or simply to prepare for exams or interviews, this book will stay with you for the rest of your career.

Computerworld - 1994-03-28

For more than 40 years, Computerworld has been the leading source of technology news and information for IT influencers worldwide. Computerworld's award-winning Web site (Computerworld.com), twice-monthly publication, focused conference series and custom research form the hub of the world's largest global IT media network.

Fluid Mechanics and Thermodynamics of Turbomachinery - S.L. Dixon 2013-10-10

Fluid Mechanics and Thermodynamics of Turbomachinery is the leading turbomachinery book due to its balanced coverage of theory and application. Starting with background principles in fluid mechanics and thermodynamics, the authors go on to discuss axial flow turbines and compressors, centrifugal pumps, fans, and compressors, and radial flow gas turbines, hydraulic turbines, and wind turbines. In this new edition,more coverage is devoted to modern approaches to analysis and design, including CFD and FEA techniques. Used as a core text in senior undergraduate and graduate level courses this book will also appeal to professional engineers in the aerospace, global power, oil & gas and other industries who are involved in the design and operation of turbomachines. More coverage of a variety of types of turbomachinery, including centrifugal pumps and gas turbines Addition of numerical and computational tools, including more discussion of CFD and FEA techniques to reflect modern practice in the area More end of chapter exercises and in-chapter worked examples

Fundamentals of Aircraft and Rocket Propulsion - Ahmed F. El-Sayed 2016-05-25

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.

Flying Magazine - 1962-09

Two Prime Movers of Globalization - Vaclav Smil 2010

The story of how diesel engines and gas turbines, used to power cargo ships and jet airplanes, made today's globally integrated economy possible.

Rolls Royce - Jill C. Wheeler 2004

Introduces this classic automobile detailing the history of the car and its maker.

Jane's Aero-engines - Mark Daly 2008

Proceedings of the 6th International Conference on Axiomatic Design -

Jet -

Aircraft Propulsion - Saeed Farokhi 2014-05-27
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.
The Jet Engine - Rolls Royce 2015-07-20
The Jet Engine provides a complete, accessible description of the working and underlying principles of the gas turbine. Accessible, non-technical approach explaining the workings of jet engines, for readers of all levels Full colour diagrams, cutaways and photographs throughout Written by RR specialists in all the respective fields Hugely popular and well-reviewed book, originally published in 2005 under Rolls Royce's own imprint
Turbofan and Turbojet Engines - Élodie Roux 2007

Commercial Aircraft Propulsion and Energy Systems Research - National Academies of Sciences, Engineering, and Medicine 2016-08-09
The primary human activities that release carbon dioxide (CO_2) into the atmosphere are the combustion of fossil fuels (coal, natural gas, and oil) to generate electricity, the provision of energy for transportation, and as a consequence of some industrial processes. Although aviation CO_2 emissions only make up approximately 2.0 to 2.5 percent of total global annual CO_2 emissions, research to reduce CO_2 emissions is urgent because (1) such reductions may be legislated even as commercial air travel grows, (2) because it takes new technology a long time to propagate into and through the aviation fleet, and (3) because of the ongoing impact of global CO_2 emissions. Commercial Aircraft Propulsion and Energy Systems Research develops a national research agenda for reducing CO_2 emissions from commercial aviation. This report focuses on propulsion and energy technologies for reducing carbon emissions from large, commercial aircraftâ€" single-aisle and twin-aisle aircraft that carry 100 or more passengersâ€"because such aircraft account for more than 90 percent of global emissions from commercial aircraft. Moreover, while smaller aircraft also emit CO_2, they make only a minor contribution to global emissions, and many technologies that reduce CO_2 emissions for large aircraft also apply to smaller aircraft. As commercial aviation continues to grow in terms of revenue-passenger miles and cargo ton miles, CO_2 emissions are expected to increase. To reduce the contribution of aviation to climate change, it is essential to improve the effectiveness of ongoing efforts to reduce emissions and initiate research into new approaches.
Applied Mechanics Reviews - 1995
Uss Coral Sea Cv-42 Cvb-43 Cva-43 and Cv-43 History and Those Aircraft Carriers Operating with Coral Sea During Her Tour of Service and a Tour of Duty in the U. S. Navy (August 1977 to February 198 - Bruce Wayne Henion 2008-06
Narrative summary of the USS CORAL SEA CV-42, CVA-43, CVB-43 and CV-43 history and a tour of duty of a young sailor serving as the Operations Departmental Yeoman onboard Cv-43 for 3-years (August 1977-February 1983) CONSTRUCTION to LAUNCHING and EARLY JET AIRCRAFT DEVELOPMENT (10 July 1944-2 April 1946).
Polarity-Dependent Removal Interferences in Sink EDM of Titanium Alloys - Maximilian Holsten 2018-12-31
In the design of turbomachinery components, a significant effort is carried out regarding the optimization of efficiency. The increase in thermal efficiency particularly involves the introduction of high-performance alloys. Such alloys are for example titanium alloys. Sink electrical discharge machining (sink EDM) is a crucial manufacturing process for components due to its independence of machined material strengths; however, new materials require process design. Hence, research to understand and optimize the machining of titanium alloys is of great benefit to the industry in general. A positive tool polarity is generally adopted in sink EDM to maximize material removal relative to tool wear. Sink EDM of α/β titanium alloys as Ti6Al4V is however atypical in that these materials necessitate a negative tool polarity. Adding to the intrigue are gamma titanium aluminides (γ-TiAl), which machine better under the conventional positive polarity. Established explanatory models of sink EDM fail in resolving the removal behavior – a need for fundamental research is given. This thesis focuses on clarifying the phenomena behind this interesting behavior by investigating removal mechanisms over a range of relevant process conditions. The polarity-effect is demonstrated to arise from the polarity-dependent nature and extent of titanium carbide (TiC) formation on the workpiece surface, which significantly affects material removal mechanisms. An explanatory model, deduced from different experimental and numerical approaches, clarifies the influence of polarity to the formation mechanism of a TiC layer. With regard to monitoring of adverse layer formations, the measurement of acoustic emission (AE) is proven an appropriate concept. A correlation of the AE signal to process forces is even established, which may be crucial to determine the deflection of thin electrodes in EDM. Finally, the knowledge acquired is applied and enhanced in comprehensive process design, that also involves the machining of additively manufactured γ-TiAl. The study reveals the beneficial behavior of the fine microstructure relative to the resulting surface integrity. As a result, this thesis delivers a model-based concept for process design with respect to the adequate choice of tool polarity during machining of titanium alloys.
1001 Aviation Facts - Mike Machat 2017-10-16
p.p1 {margin: 0.0px 0.0px 0.0px 0.0px; font: 12.0px Arial} In any specialized subject, detailed trivia (technical, or otherwise) is sought and prized by enthusiasts worldwide. Interesting but little-known facts have been part of aviation lore since that industry first began in the early 1900s, and today's digital aircraft are no different when it comes to this interest. Modeled after successful automotive books on the same theme, this book contains interesting and little-known facts about all aspects of aviation, written by a host of contributing authors, all of whom are well-respected experts in their fields. This book provides an insightful and in-depth look at aviation history by highlighting many little-known, yet very important aviation facts. Stories are organized by category, such as military, commercial, and sport aviation. Other popular topics include pilots and personalities, aviation movies, TV shows, and model building. More than 100 excellent photographs serve as visual highlights complementing the text. Although individual aircraft may have interesting technical histories, there are many small details that are actually vital to that aircraft's success or failure. This book brings those types of facts to the forefront, giving the reader a plethora of compelling data and information that will broaden their understanding and appreciation of aviation in general, plus aircraft and the people who make them fly.
Gas Turbines for Electric Power Generation - S. Can Gülen 2019-02-14
Everything you wanted to know about industrial gas turbines for electric power generation in one source with hard-to-find, hands-on technical information.
Performance of the Jet Transport Airplane - Trevor M. Young 2019-10-24
Performance of the Jet Transport Airplane: Analysis Methods, Flight Operations, and Regulations presents a

detailed and comprehensive treatment of performance analysis techniques for jet transport airplanes. Uniquely, the book describes key operational and regulatory procedures and constraints that directly impact the performance of commercial airliners. Topics include: rigid body dynamics; aerodynamic fundamentals; atmospheric models (including standard and non-standard atmospheres); height scales and altimetry; distance and speed measurement; lift and drag and associated mathematical models; jet engine performance (including thrust and specific fuel consumption models); takeoff and landing performance (with airfield and operational constraints); takeoff climb and obstacle clearance; level, climbing and descending flight (including accelerated climb/descent); cruise and range (including solutions by numerical integration); payload–range; endurance and holding; maneuvering flight (including turning and pitching maneuvers); total energy concepts; trip fuel planning and estimation (including regulatory fuel reserves); en route operations and limitations (e.g. climb-speed schedules, cruise ceiling, ETOPS); cost considerations (e.g. cost index, energy cost, fuel tankering); weight, balance and trim; flight envelopes and limitations (including stall and buffet onset speeds, V–n diagrams); environmental considerations (viz. noise and emissions); aircraft systems and airplane performance (e.g. cabin pressurization, de-/anti icing, and fuel); and performance-related regulatory requirements of the FAA (Federal Aviation Administration) and EASA (European Aviation Safety Agency). Key features: Describes methods for the analysis of the performance of jet transport airplanes during all phases of flight Presents both analytical (closed form) methods and numerical approaches Describes key FAA and EASA regulations that impact airplane performance Presents equations and examples in both SI (Système International) and USC (United States Customary) units Considers the influence of operational procedures and their impact on airplane performance Performance of the Jet Transport Airplane: Analysis Methods, Flight Operations, and Regulations provides a comprehensive treatment of the performance of modern jet transport airplanes in an operational context. It is a must-have reference for aerospace engineering students, applied researchers conducting performance-related studies, and flight operations engineers.

Airplane Flying Handbook (FAA-H-8083-3A) - Federal Aviation Administration 2011-09-11

The Federal Aviation Administration’s Airplane Flying Handbook provides pilots, student pi-lots, aviation instructors, and aviation specialists with information on every topic needed to qualify for and excel in the field of aviation. Topics covered include: ground operations, cockpit management, the four fundamentals of flying, integrated flight control, slow flights, stalls, spins, takeoff, ground reference maneuvers, night operations, and much more. The Airplane Flying Handbook is a great study guide for current pilots and for potential pilots who are interested in applying for their first license. It is also the perfect gift for any aircraft or aeronautical buff.

Gas Turbine Performance - Philip P. Walsh 2008-04-15

A significant addition to the literature on gas turbine technology, the second edition of Gas Turbine Performance is a lengthy text covering product advances and technological developments. Including extensive figures, charts, tables and formulae, this book will interest everyone concerned with gas turbine technology, whether they are designers, marketing staff or users.

The Magic of a Name: The Rolls-Royce Story, Part 1 - Peter Pugh 2015-04-02

The Magic of a Name tells the story of the first 40 years of Britain’s most prestigious manufacturer - Rolls-Royce. Beginning with the historic meeting in 1904 of Henry Royce and the Honourable C.S. Rolls, and the birth in 1906 of the legendary Silver Ghost, Peter Pugh tells a story of genius, skill, hard work and dedication which gave the world cars and aero engines unrivalled in their excellence. In 1915, 100 years ago, the pair produced their first aero engine, the Eagle which along with the Hawk, Falcon and Condor proved themselves in battle in the First World War. In the Second the totemic Merlin was installed in the Spitfire and built in a race against time in 1940 to help win the Battle of Britain. With unrivalled access to the company’s archives, Peter Pugh’s history is a unique portrait of both an iconic name and of British industry at its best.

The Magic of a Name: The Rolls-Royce Story, Part 2 - Peter Pugh 2015-04-02

The Magic of a Name tells the story of the first 40 years of Britain’s most prestigious manufacturer - Rolls-Royce. Beginning with the historic meeting in 1904 of Henry Royce and the Honourable C.S. Rolls, and the birth in 1906 of the legendary Silver Ghost, Peter Pugh tells a story of genius, skill, hard work and dedication which gave the world cars and aero engines unrivalled in their excellence. In 1915, 100 years ago, the pair produced their first aero engine, the Eagle which along with the Hawk, Falcon and Condor proved themselves in battle in the First World War. In the Second the totemic Merlin was installed in the Spitfire and built in a race against time in 1940 to help win the Battle of Britain. With unrivalled access to the company’s archives, Peter Pugh’s history is a unique portrait of both an iconic name and of British industry at its best.

McGraw-Hill Encyclopedia of Science & Technology - Sybil P. Parker 1997

A comprehensive, 20-volume reference encyclopedia on science and technology.