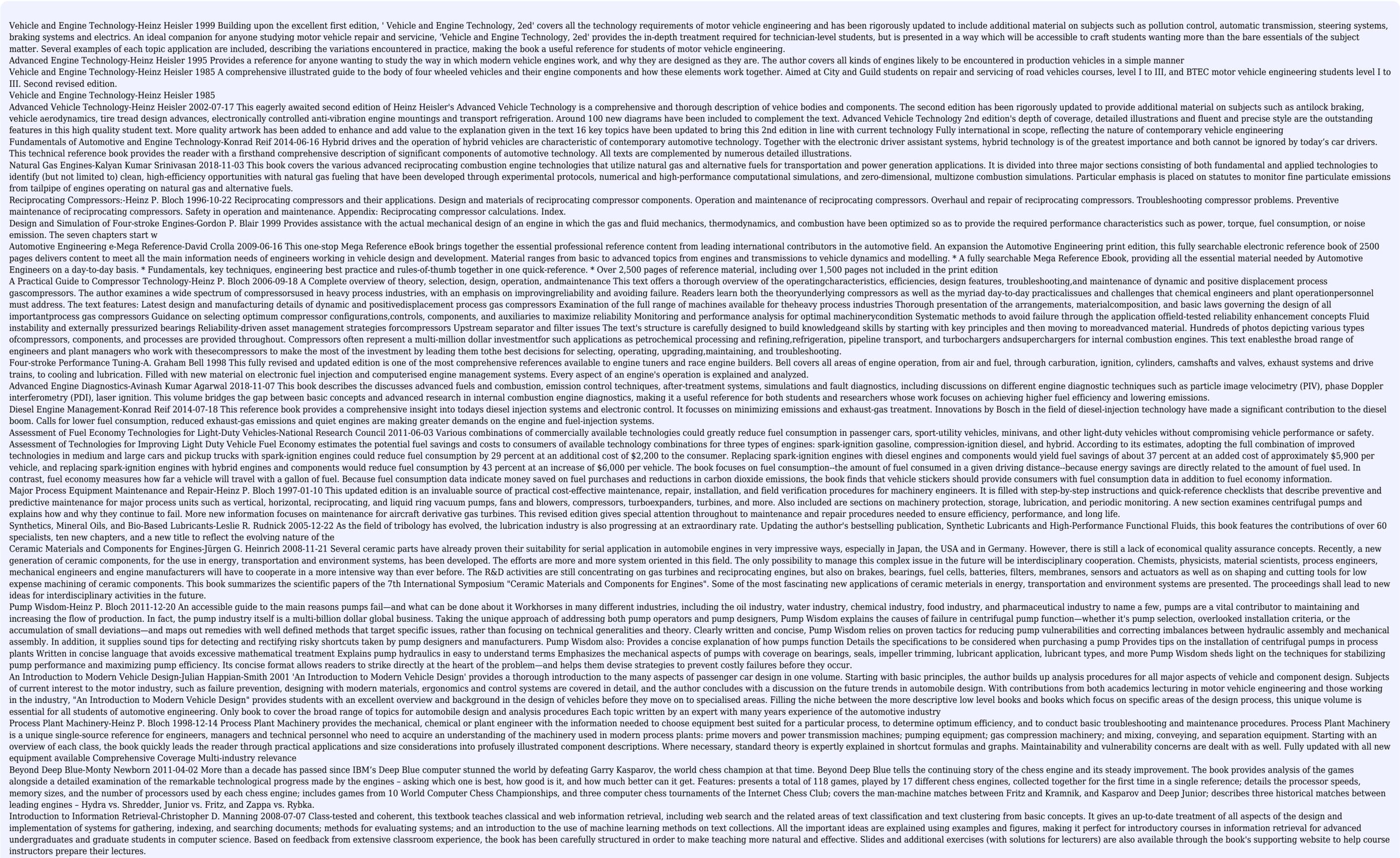


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Dornier Do 335 "Pfeil"-Heinz J. Nowarra 1989 This late WWII aircraft was the fastest piston engine fighter of the war.

Cylindrical Gears-Heinz Linke 2016 An unrivalled compendium on the development of gear units. This book contains a complete presentation of all branches essential for the development of gear units, in particular that of cylindrical gears. The main subareas are geometry, load capacity, gear noise, design process, quality assurance, materials, heat treatment, and manufacturing. Further topics covered are material selection, strength values, the creation of drawings as well as practical design examples. The used technical terms and standards are based on the internationally valid and applied ISO standards. This book provides the basis for practical calculations and detailed analyses. It addresses graduate engineers in research, development and manufacturing departments as well as students and postgraduates in mechanical and plant engineering, as well as in automotive, aerospace and marine engineering.

Fluid Sealing Technology-Heinz K Muller 2018-10-31 "Assists users, developers, researchers, and manufacturers in the design, selection, development, and application of seals and sealing systems for fluids."

Emanuel Goldberg and His Knowledge Machine-Michael Keeble Buckland 2006 A fascinating and illuminating tribute to a great mind and a crucial period in the history of information science and technology.

Conference on Future Automotive Technology-Markus Lienkamp 2012-12-09 The increasing trend towards electric cars leads to several challenges for the automobile industry, research institutes and politics as well as for the society. Research and serial development move closer together to meet automotive standards with new components like traction batteries integrated into hybrid and electrical drivetrains. Furthermore, the influence of e-mobility on the daily mobility behavior, the effects on the automotive supply chain and the impact on industrial production have to be taken into account. According to these complex aspects it is crucial to not only acquire specific knowledge in the particular fields but also to consider their functional interaction. Therefore, it seems essential to merge competence from science, economy and politics. This year, the annual „Conference on Future Automotive Technology“ as the follow-up of the „2. Automobiltechnisches Kolloquium München“ focuses on the economical realization of widespread automotive electromobility.

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.

Safety and Reliability - Safe Societies in a Changing World-Stein Haugen 2018-06-15 Safety and Reliability - Safe Societies in a Changing World collects the papers presented at the 28th European Safety and Reliability Conference, ESREL 2018 in Trondheim, Norway, June 17-21, 2018. The contributions cover a wide range of methodologies and application areas for safety and reliability that contribute to safe societies in a changing world. These methodologies and applications include: - foundations of risk and reliability assessment and management - mathematical methods in reliability and safety - risk assessment - risk management - system reliability - uncertainty analysis - digitalization and big data - prognostics and system health management - occupational safety - accident and incident modeling - maintenance modeling and applications - simulation for safety and reliability analysis - dynamic risk and barrier management - organizational factors and safety culture - human factors and human reliability - resilience engineering - structural reliability - natural hazards - security - economic analysis in risk management Safety and Reliability - Safe Societies in a Changing World will be invaluable to academics and professionals working in a wide range of industrial and governmental sectors: offshore oil and gas, nuclear engineering, aeronautics and aerospace, marine transport and engineering, railways, road transport, automotive engineering, civil engineering, critical infrastructures, electrical and electronic engineering, energy production and distribution, environmental engineering, information technology and telecommunications, insurance and finance, manufacturing, marine transport, mechanical engineering, security and protection, and policy making.

Encyclopedia of Materials-K. H. J. Buschow 2001

Petrochemical Machinery Insights-Heinz P Bloch 2016-09-08 Petrochemical Machinery Insights is a priceless collection of solutions and advice from Heinz Bloch on a broad range of equipment management themes, from wear to warranty issues, organizational problems and oil mist lubrication, and professional growth and pre-purchase of machinery. The author draws on his industry experience to hone in on important problems that do not get addressed in other books, providing actionable details that engineers can use. Mechanical, reliability, and process engineers will find this book the next best thing to having Heinz Bloch on speed dial. Focuses on pieces of hard-won experience from the industry that are rarely included in other books Presents not just a guide to technical problems, but also to crucial themes in management and organization Includes an informal and honest style, making author Heinz Bloch's 40 years of experience accessible to a broad audience of readers Contains a unifying theme that successful asset management requires the separation of application and implementation details

Maximizing Machinery Uptime-Heinz P. Bloch 2006-02-17 The authors use their decades of experience and draw upon real-world examples to demonstrate that the application of their techniques provides a basis for equipment management, uptime maximization, and reduced maintenance costs. The text explores reliability assessment techniques such as Failure Mode, Effect Analysis, and Fault Tree Analysis of commonly encountered rotating machinery. These are all highly effective techniques that the engineer can apply to maximize uptime and thereby maximize production and profitability. *Provides the tools to drastically improve machinery productivity and performance *Bridges the gap between the theory of "reliability engineering" and the practical day-to-day measures that lead to machinery uptime *Authoritative reference for maximizing the uptime of process equipment

Understanding Understanding-Heinz von Foerster 2007-05-08 In these ground-breaking essays, Heinz von Foerster discusses some of the fundamental principles that govern how we know the world and how we process the information from which we derive that knowledge. The author was one of the founders of the science of cybernetics.

Programming the Universe-Seth Lloyd 2006-03-14 Is the universe actually a giant quantum computer? According to Seth Lloyd, the answer is yes. All interactions between particles in the universe, Lloyd explains, convey not only energy but also information—in other words, particles not only collide, they compute. What is the entire universe computing, ultimately? "Its own dynamical evolution," he says. "As the computation proceeds, reality unfolds." Programming the Universe, a wonderfully accessible book, presents an original and compelling vision of reality, revealing our world in an entirely new light. From the Trade Paperback edition.

Systems Engineering for Automotive Powertrain Development-Hannes Hick 2020-03-15 The book brings together all aspects of systems engineering methodology. It presents a line-up of the challenges in the field of automotive powertrain development, a detailed analysis and assessment of the actual methodology status and new methods, systems engineering initiatives in automotive as well as automotive use cases and applications. The following applications in the powertrain are covered: hybrid powertrain systems, passenger car engines, heavy duty engines and industrial engines, transmissions, batteries, fuel cells, exhaust gas aftertreatment systems and electrical-axles. A special and unique feature of this book will be the aspect of hardware test and development systems, which is in direct interaction to the systems engineering approach. In the final part the future perspective is shown in assorted characteristics. Relevant boundaries for this view are the expected trend to higher complexity, variant and configuration management, connected systems, challenge of specific legislation and laws, global engineering, supplier collaboration, development and production networks, interdisciplinary challenges for the digital development process and shorter life cycles, model based development of mechatronic systems, degree of abstraction, serviceability management, internal communication, required IT standards and tool networking, production interaction and product life cycle management.

Ignition Systems for Gasoline Engines-Michael Günther 2016-11-18 The volume includes selected and reviewed papers from the 3rd Conference on Ignition Systems for Gasoline Engines in Berlin in November 2016. Experts from industry and universities discuss in their papers the challenges to ignition systems in providing reliable, precise ignition in the light of a wide spread in mixture quality, high exhaust gas recirculation rates and high cylinder pressures. Classic spark plug ignition as well as alternative ignition systems are assessed, the ignition system being one of the key technologies to further optimizing the gasoline engine.

The Predictable Pipeline-Matt Heinz 2020-11-03 Too many companies face a roller coaster of inconsistent sales results, often accelerated by ineffective or random acts of marketing as well as unsustainable fire drills, short-term thinking, and a lack of a solid foundation for profitable, predictable growth. What may have worked in the company's earlier stages isn't working now, and the "growth hacking" mindset just leads to inconsistency, more burnout, bad morale, and too-often missed objectives. What's more, marketing's role and impact in driving sustainable sales growth is nebulous, where at best marketers aren't able to measure their true impact, and at worst they're still just acting like the arts and crafts department. There is a better way. Based on the best practices of hundreds of successful B2B organizations worldwide, The Predictable Pipeline methodology covers seven key areas of marketing-driven impact that will deliver more proscriptive, reliable, and scalable sales pipeline and results in the months, quarters, and years to come. In this book, you will discover the strategies, tactics, and operational best practices that make today's most successful B2B organizations more productive, more consistent, more motivated, and more successful. Key to successful, predictable pipelines and included in this book: Focusing on precisely the target accounts that are ready to buy Personalizing your message at scale Accelerating productivity and impact of your sales and marketing resources Right-sizing your technology, budget, and key metrics scorecards Executing on a more effective review and optimization cadence to drive success

Driving and Engine Cycles-Evangelos G. Giakoumis 2016-12-09 This book presents in detail the most important driving and engine cycles used for the certification and testing of new vehicles and engines around the world. It covers chassis and engine-dynamometer cycles for passenger cars, light-duty vans, heavy-duty engines, non-road engines and motorcycles, offering detailed historical information and critical review. The book also provides detailed examples from SI and diesel engines and vehicles operating during various cycles, with a focus on how the engine behaves during transients and how this is reflected in emitted pollutants, CO2 and after-treatment systems operation. It describes the measurement methods for the testing of new vehicles and essential information on the procedure for creating a driving cycle. Lastly, it presents detailed technical specifications on the most important chassis-dynamometer cycles around the world, together with a direct comparison of those cycles.

Environmental Technology and Economics-Claire Soares 1999 There is no shortage of books about ISO14000 and what it contains. What is needed is a guidebook that will show practicing engineers in industry how to implement systems that will achieve manufacturing and business efficiency and environmental compliance at the same time. This book will meet that goal in the most straightforward and forthright way. What is provided here is a guide to the actual technology at the disposal of plant designers, specifiers, engineers, and managers that will give them the answers to the questions that other sources simply do not address.

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