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2023-10-15

ENGLISH QUINN

Rocket and Spacecraft Propulsion

Elsevier

Annotation Based on his training in metallurgy and experience in a large British gear manufacturing company, Parrish reviews the microstructural features of metal products that have been carbon case-hardened, and the influence of those features on the more important material properties. He is not concerned with the carbonizing process at all. He primarily addresses students of engineering and ferrous metallurgy, but also stress and design engineers who might want to understand more fully the specifications of the materials they are

considering for their designs. He wrote the eight articles to summarize the field's literature of the early 1970s for his own convenience, but at invitation, published them as a series in the Heat Treatment of Metals during 1967-77, and collected them for a first edition of the volume in 1980. Annotation copyrighted by Book News, Inc., Portland, OR.

Electrochemical Materials Science Springer Science & Business Media

For the first time, this book covers the entire field of piezoelectric sensors for mechanical measurands. It gives extensive practical advice along with an overview of the most important piezoelectric materials and their properties, plus consistent terminology for describing sensors.

15th Nordic-Baltic Conference on

Biomedical Engineering and Medical

Physics Springer Science & Business Media

Today there are over a billion vehicles in the world, and within twenty years, the number will double, largely a consequence of China's and India's explosive growth. Given that greenhouse gases are already creating havoc with our climate and that violent conflict in unstable oil-rich nations is on the rise, will matters only get worse? Or are there hopeful signs that effective, realistic solutions can be found? Blending a concise history of cars and their impact on the world, leading transportation experts Daniel Sperling and Deborah Gordon explain how we arrived at this state, and what we can do about it. Sperling and Gordon assign blame

squarely where it belongs-on the auto-industry, short-sighted government policies, and consumers. They explore such solutions as getting beyond the gas-guzzler monoculture, re-inventing cars, searching for low-carbon fuels, and more. Promising advances in both transportation technology and fuel efficiency together with shifts in traveler behavior, they suggest, offer us a way out of our predicament. The authors conclude that the two places that have the most troublesome emissions problems--California and China--are the most likely to become world leaders on these issues. Arnold Schwarzenegger's enlightened embrace of eco-friendly fuel policies, which he discusses in the foreword, and China's forthright recognition that it needs far-reaching environmental and energy policies, suggest that if they can tackle the issue effectively and honestly, then there really is reason for hope. Updated with a new afterword that sheds light on the profound changes in the global economy in the last year, *Two Billion Cars* makes the case for why and how we need to transform transportation now more than ever. "Authoritatively prescriptive." --Tom

Vanderbilt, *Wilson Quarterly* "Provocative and pleasurable, far-seeing and refreshing, fact-based and yet a page-turner, global in scope but rooted in real places. The authors make a convincing case that smart consumers driving smart electric-drive cars can find the critical path to a safer planet." --Robert Socolow, Princeton University "In this insightful and persuasive book, Sperling and Gordon highlight one of the biggest environmental challenges of this century: two billion cars. They rightly contend that we cannot avert the worst of global warming without making our cars cleaner and petroleum-free. Luckily the authors also offer a roadmap for navigating this problem that is both visionary and achievable." --Frances Beinecke, President, Natural Resources Defense Council
Energy Research Abstracts McGraw-Hill Humanities, Social Sciences & World Languages
 Quantum mechanics can describe the detailed structure and behavior of matter, from electrons, atoms, and molecules, to the whole universe. It is one of the fields of knowledge that yield extraordinary precessions, limited only by the

computational resources available. Among these methods is density functional theory (DFT), which permits one to solve the equations of quantum mechanics more efficiently than with any related method. The present volume represents the most comprehensive summary currently available in density functional theory and its applications in chemistry from atomic physics to molecular dynamics. DFT is currently being used by more than fifty percent of computational chemists.

Germans to America Springer Science & Business Media

Title of the first 10 volumes of the series is *Germans to America* : lists of passengers arriving at U.S. ports 1850-1855.

A Practice of Cardiac Pacing Springer Science & Business Media

The revised edition of this practical, hands-on book discusses the launch vehicles in use today throughout the world, and includes the latest details on advanced systems being developed, such as electric and nuclear propulsion. The author covers the fundamentals, from the basic principles of rocket propulsion and vehicle dynamics through the theory and

practice of liquid and solid propellant motors, to new and future developments. He provides a serious exposition of the principles and practice of rocket propulsion, from the point of view of the user who is not an engineering specialist.

Electroceramic-Based MEMS Springer Science & Business Media

Nuclear propulsion : an introduction / Claudio Bruno -- Nuclear-thermal-rocket propulsion systems / Timothy J. Lawrence -

- Application of ion thrusters to high-thrust, high-specific-impulse nuclear electric missions / D.G. Fearn -- High-power and high-thrust-density electric propulsion for in-space transportation / Monika Auweter-Kurtz and Helmut Kurtz -- Review of reactor configurations for space nuclear electric propulsion and surface power considerations / Roger X. Lenard -- Nuclear safety : legal aspects and policy recommendations / Roger X. Lenard -- Radioactivity, doses, and risks in nuclear propulsion / Alessio Del Rossi and Claudio Bruno -- The Chernobyl accident : a detailed account / Alessio del Rossi and Claudio Bruno.

Nuclear Space Power and Propulsion Systems Elsevier

This volume presents the Proceedings of the 15th Nordic-Baltic Conference on Biomedical Engineering and Medical Physics. NBC 2011 brought together science, education and business under the motto "Cooperation for health". The topics covered by the Conference Proceedings include: Imaging, Biomechanics, Neural engineering, Sport Science, Cardio-pulmonary engineering, Medical Informatics, Ultrasound, Assistive Technology, Telemedicine, and General Biomedical Engineering.

Government Reports Announcements & Index Oxford University Press

Adhesives: Principles and State of the Art. -- Adhesives: Dos and Don'ts. -- Restorative Materials for the Direct Technique. -- The Key for the Indirect. - Technique. - New Concepts of Minimally Invasive Preparations: An SI/STA Concept. --Preparation and Restoration of Small Interproximal Carious Lesions. -- Adhesion in Preventive Dentistry. -- Adhesion in Pediatric Dentistry. --Strength of Fragment-Bonded Teeth. -- Bonding: The Ultimate Restoration for Tooth Fracture? -- Biological Bonding: Periodontal and Peri-Implant Attachment. -- Exploring the

Layering Concepts for Anterior Teeth. -- Composite Resin. --Restorations on Posterior Teeth. -- Prosthodontics of the Future: Cementing or Bonding? -- Clinical Application of Ceramic Bonded Restorations. -- Restoration of the Endodontically Treated Tooth: Adhesion vs. Mechanical Retentio.

Handbook of Force Transducers Springer Science & Business Media

In this classic portrait of Dwight D. Eisenhower the soldier, bestselling historian Stephen E. Ambrose examines the Allied commander's leadership during World War II. Ambrose brings Eisenhower's experience of the Second World War to life, showing in vivid detail how the general's skill as a diplomat and a military strategist contributed to Allied successes in North Africa and in Europe, and established him as one of the greatest military leaders in the world. Ambrose, then the Associate Editor of the General's official papers, analyzes Eisenhower's difficult military decisions and his often complicated relationships with powerful personalities like Churchill, de Gaulle, Roosevelt, and Patton. This is the definitive account of Eisenhower's

evolution as a military leader—from its dramatic beginnings through his time at the top post of Allied command.

Safe Passage Wilmington, Del. : Scholarly Resources

After more than a decade of successful application of cardiac pace makers in the therapy of cardiac rhythm disorders, technological and clinical experience has reached a level, at which a technical survey of this field should be of general interest and might promote the further improvement of pace maker therapy. The papers contained in this book were presented at the International Symposium on Advances in Pacemaker Technology, held at Erlangen on Sep tember 26 and 27,1974 under the auspices of the Societas Physica Medica Erlangensis. One of the traditional aims of the Societas has been the advance ment of diagnosis and therapy by the adaptation of medical skill to modern technology and scientific engineering conceptions. The major objective of this book is to present, in expanded form, the lectures given by internationally known basic and clinical researchers in the field of artificial pacing of the heart and to make that information

available to a wider public. The experience discussed covers the principles and main methods of pacing using implantable and external, fixed rate, R-wave or P-wave triggered pacemakers with electrodes placed in the myocardium either surgically or transvenously, and powered by zinc-mercury oxide or rechargeable batteries. Particular emphasis was put on problems of pressing importance at the present time, such as the increase of pacemaker longevity with lithium iodide and nuclear-powered batteries or improved electrodes, as well as the postoperative management of a steadily increasing number of pacemaker patients.

Phonetics, Theory and Application John Wiley & Sons

The book is focused on the use of functional oxide and nitride thin films to increase functionality and application range of MEMS (microelectromechanical systems) in the large sense, including micro-sensors, micro-actuators, and electronic components for high frequency communications. The book covers major topics and is divided into two parts (a) applications and emerging applications, and (b) materials, fabrication technologies,

and functioning issues.

Engineering in Medicine Academic Press

A major strategy to reduce transport congestion and other social costs of transport is to ensure that travellers make the best decisions, based on real time information. A wide range of technological systems have been developed to provide this information, but little is known about how travellers actually respond to it. This book offers an overview of various transport telematics options and provides an appropriate methodological framework, followed by a presentation of results from actual applications of these telematics systems from a range of European countries in various transport sectors. The empirical results are supplemented by analytical models and geographic information systems representations with a view on generalizing these findings and identifying the key parameters which determine user response.

Carburizing Springer Science & Business Media

A Symposium on Electronic Composition in Printing was held at the Gaithersburg Laboratories of the National Bureau of Standards. The symposium was a state-of-

the-art review of a rapidly advancing field of computer application with great potentialities for increased efficiency and savings in the Federal Government. (Author).

The Radio Amateur's Handbook

Quintessence Publishing (IL)

It is now time for a comprehensive treatise to look at the whole field of electrochemistry. The present treatise was conceived in 1974, and the earliest invitations to authors for contributions were made in 1975. The completion of the early been delayed by various factors. volumes has There has been no attempt to make each article emphasize the most recent situation at the expense of an overall statement of the modern view. This treatise is not a collection of articles from Recent Advances in Electrochemistry or Modern Aspects of Electrochemistry. It is an attempt at making a mature statement about the present position in the vast area of what is best looked at as a new interdisciplinary field. Texas A & M University J. O'M. Bockris University of Ottawa B. E. Conway Case Western Reserve University Ernest Yeager Texas A & M University Ralph E. White Preface to

Volume 4 The science of degradation of materials involves a vast area of science and technology, the economic importance of which rivals that of any other clearly defined area affecting the standard of life. The basis of the corrosion process is the electrochemical charge-transfer reaction, and the center of the subject of the degradation of materials is electrochemical material science.

Computer Typesetting Anchor

Pioneered by the pharmaceutical industry and adapted for the purposes of materials science and engineering, the combinatorial method is now widely considered a watershed in the accelerated discovery, development, and optimization of new materials. Combinatorial Materials Synthesis reveals the gears behind combinatorial materials chemistry and thin-film technology, and discusses the prime techniques involved in synthesis and property determination for experimentation with a variety of materials. Funneling historic innovations into one source, the book explores core approaches to synthesis and rapid characterization techniques for work with combinatorial materials libraries.

Electronic Composition in Printing Wiley-Blackwell

This book introduces the reader to the basic concepts of the generation and manipulation of synchrotron light, its interaction with matter, and the application of synchrotron light in the "classical" techniques, while including some of the most modern technological developments. As much as possible, complicated mathematical derivations and formulas are avoided. A more heuristic approach is adopted, whereby the general physical reasoning behind the equations is highlighted. Key features: A general introduction to synchrotron radiation and experimental techniques using synchrotron radiation Contains many detailed "worked examples" from the literature Of interest for a broad audience - synchrotrons are possibly one of the best examples of multidisciplinary research Four-colour presentation throughout

Modern Batteries ASM International

Safe Passage: Astronaut Care for Exploration Missions sets forth a vision for space medicine as it applies to deep space voyage. As space missions increase in duration from months to years and extend

well beyond Earth's orbit, so will the attendant risks of working in these extreme and isolated environmental conditions. Hazards to astronaut health range from greater radiation exposure and loss of bone and muscle density to intensified psychological stress from living with others in a confined space. Going beyond the body of biomedical research, the report examines existing space medicine clinical and behavioral research and health care data and the policies attendant to them. It describes why not enough is known today about the dangers of prolonged travel to enable humans to venture into deep space in a safe and sane manner. The report makes a number of recommendations concerning NASA's structure for clinical and behavioral research, on the need for a comprehensive astronaut health care system and on an approach to communicating health and safety risks to astronauts, their families,

and the public.

Telematics and Transport Behaviour
Progress in Astronautics and A
Semiannual, with semiannual and annual indexes. References to all scientific and technical literature coming from DOE, its laboratories, energy centers, and contractors. Includes all works deriving from DOE, other related government-sponsored information, and foreign nonnuclear information. Arranged under 39 categories, e.g., Biomedical sciences, basic studies; Biomedical sciences, applied studies; Health and safety; and Fusion energy. Entry gives bibliographical information and abstract. Corporate, author, subject, report number indexes.

Two Billion Cars CRC Press

The second edition of this popular engineering reference book, previously titled Newnes Electrical Engineer's Handbook, provides a basic understanding of the underlying theory and operation of

the major classes of electrical equipment. With coverage including the key principles of electrical engineering and the design and operation of electrical equipment, the book uses clear descriptions and logical presentation of data to explain electrical power and its applications. Each chapter is written by leading professionals and academics, and many sections conclude with a summary of key standards. The new edition is updated in line with recent advances in EMC, power quality and the structure and operation of power systems, making Newnes Electrical Power Engineer's Handbook an invaluable guide for today's electrical power engineer. - A unique, concise reference book with contributions from eminent professionals in the field - Provides straightforward and practical explanations, plus key information needed by engineers on a day-to-day basis - Includes a summary of key standards at the end of each chapter