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An index to translations issued by the United States Joint Publications Research Service (JPRS) .

This book provides a single-source reference to the state-of-the art in tunneling field effect transistors (TFETs). Readers will learn the TFETs physics from advanced atomistic simulations, the TFETs fabrication process and the important roles that TFETs will play in enabling integrated circuit designs for power efficiency.

This book is the second edition of Soft

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Actuators, originally published in 2014, with 12 chapters added to the first edition. The subject of this new edition is current comprehensive research and development of soft actuators, covering interdisciplinary study of materials science, mechanics, electronics, robotics, and bioscience. The book includes contemporary research of actuators based on biomaterials for their potential in future artificial muscle technology. Readers will find detailed and useful information about materials, methods of synthesis, fabrication, and measurements to study soft actuators. Additionally, the

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topics of materials, modeling, and applications not only promote the further research and development of soft actuators, but bring benefits for utilization and industrialization. This volume makes generous use of color figures, diagrams, and photographs that provide easy-to-understand descriptions of the mechanisms, apparatus, and motions of soft actuators. Also, in this second edition the chapters on modeling, materials design, and device design have been given a wider scope and made easier to comprehend, which will be helpful in practical applications of soft actuators.

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Readers of this work can acquire the newest technology and information about basic science and practical applications of flexible, lightweight, and noiseless soft actuators, which differ from conventional mechanical engines and electric motors. This new edition of Soft Actuators will inspire readers with fresh ideas and encourage their research and development, thus opening up a new field of applications for the utilization and industrialization of soft actuators.

Transdex Index

*Scanning Electron Microscopy and X-Ray
Microanalysis*

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The Economist

Electrochemistry of Zirconia Gas Sensors

Government Reports Annual Index

Chemistry for Engineering Students

In this unique volume, an international cast of leading scholars from several disciplines offers a comprehensive assessment of the current status of space-based weaponry. Regional and technical experts offer their analysis of the major powers' special interests in space and also examine the broader issues of ICBM proliferation, testing, monitoring, and verification as well as possible opportunities for cooperation between states with a stake in space power. The book gives the reader an overview on electrical properties and applications such as converter transformer,

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transistor, and energy storage. Besides, this book also presents some recent researches on typical polymer material such as silicon rubber and LDPE, which may provide some clues of advanced polymer properties for both engineers and researches. The author has been a professor at the Department of Electrical Engineering, School of Electrical Engineering and Automation, Tianjin University, China, since 2002. He has been active in polymer insulation research since the 1990s. He is a member of IEEE, senior member of CSEE, member at several WG in CIGRE, and associate editor of the IEEE Transactions on Dielectrics and Electrical Insulation.

An examination of geography's critical effects on battles throughout the ages

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Scientific and Technical Aerospace Reports

Handbook of Bioenergy Crops

OAR Cumulative Index of Research Results

Ames Research Center

Handbook of Petroleum Processing

Battery Management Systems

This book has evolved by processes of selection and expansion from its predecessor, Practical Scanning Electron Microscopy (PSEM), published by Plenum Press in 1975. The interaction of the authors with students at the Short Course on Scanning Electron Microscopy and X-Ray Microanalysis held annually at Lehigh University

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has helped greatly in developing this textbook. The material has been chosen to provide a student with a general introduction to the techniques of scanning electron microscopy and x-ray microanalysis suitable for application in such fields as biology, geology, solid state physics, and materials science. Following the format of PSEM, this book gives the student a basic knowledge of (1) the user-controlled functions of the electron optics of the scanning electron microscope and electron microprobe, (2) the characteristics of electron-beam-sample interactions, (3) image

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formation and interpretation, (4) x-ray spectrometry, and (5) quantitative x-ray microanalysis. Each of these topics has been updated and in most cases expanded over the material presented in PSEM in order to give the reader sufficient coverage to understand these topics and apply the information in the laboratory. Throughout the text, we have attempted to emphasize practical aspects of the techniques, describing those instrument parameters which the microscopist can and must manipulate to obtain optimum information from the specimen. Certain

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areas in particular have been expanded in response to their increasing importance in the SEM field. Thus energy-dispersive x-ray spectrometry, which has undergone a tremendous surge in growth, is treated in substantial detail.

The global energy system is moving closer to a historic transformation. This year's edition of the International Energy Agency (IEA)'s comprehensive publication on energy technology focuses on the opportunities and challenges of scaling and accelerating the deployment of clean energy technologies. This includes looking at more

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ambitious scenarios than the IEA has produced before. Improvements in technology continue to modify the outlook for the energy sector, driving changes in business models, energy demand and supply patterns as well as regulatory approaches. Energy security, air quality, climate change and economic competitiveness are increasingly being factored in by decision makers. Energy Technology Perspectives 2017 (ETP 2017) details these trends as well as the technological advances that will shape energy security and environmental sustainability for decades to come. For the first

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time, ETP 2017 looks at how far clean energy technologies could move the energy sector towards higher climate change ambitions if technological innovations were pushed to their maximum practical limits. The analysis shows that, while policy support would be needed beyond anything seen to date, such a push could result in greenhouse gas emission levels that are consistent with the mid-point of the target temperature range of the global Paris Agreement on climate change. The analysis also indicates that regardless of the pathway chosen for the energy sector

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transformation, policy action is needed to ensure that multiple economic, security and other benefits to the accelerated deployment of clean energy technologies are realised through a systematic and co-ordinated approach. ETP 2017 also features the annual IEA Tracking Clean Energy Progress report, which shows that the current progress in clean energy technology development and deployment remains sub-optimal. It highlights that progress has been substantial where policies have provided clear signals on the value of technology innovation. But many technology areas still suffer from a lack

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of financial and policy support.

The first book to present a detailed analysis of the electrochemistry, development, modeling, optimization, testing, and technology behind modern zirconia-based sensors, *Electrochemistry of Zirconia Gas Sensors* explores how to tailor these sensors to meet specific industrial needs. The book addresses a range of different stages of development in zirconia-based sensors for gaseous and molten metal environments, focusing on an accessible form from analysis of interaction at the measuring environment-zirconia sensor interface to

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reliability testing of the sensors. The coverage highlights different fundamental aspects of electrochemistry and physical chemistry of zirconia, mathematical modeling, optimization parameters, and structures of the electrode materials. The author highlights the factors that determine high sensitivity, critically reviews the limitations of current technologies, and surveys the needs and possibilities of future developments. He covers technologies for vacuum-tight joining zirconia to ceramic insulators and sensor construction materials as well as sensor design and

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concepts of the total-NO_x sensor based on mixed potential. The book includes a critical overview of existing technologies of zirconia gas sensors including nanotechnology. This book fills the gap between pure academic research of the zirconia-based gas sensors, explaining the influence of the double electrical layer on the sensor output signal and the applied, technological, down-to-earth approaches adopted by the vast majority of the industrial companies working in this field. Providing guidance on how to organize a testing program of gas sensors, the book allows readers to look

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forward in evaluating future trends in the zirconia gas sensors development.

Carbon Fibers

Lloyd's Register of Shipping 1929 Steamers

Space Power Interests

Military Geography for Professionals and the Public

Government Reports Announcements & Index

Handbook of Nanomaterials for Industrial

Applications

"The essential, comprehensive guide to Rogue One- A Star Wars Story. Star Wars Rogue One Ultimate Visual Guide is an exciting reference

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format that accompanies the eagerly anticipated, first-ever standalone Star Wars movie- Rogue One. This beautifully detailed Star Warsbook features in-depth character profiles, plus 6 newly commissioned and fully annotated cross-sections of vehicles and mapped-out locations. With clear and authoritative text, Star Wars Rogue One Ultimate Visual Guideis packed with essential information - and presented alongside stunning stills from the movie. & TM 2016 LUCASFILM LTD."

Handbook of Nanomaterials for Industrial Applications explores the use of novel

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nanomaterials in the industrial arena. The book covers nanomaterials and the techniques that can play vital roles in many industrial procedures, such as increasing sensitivity, magnifying precision and improving production limits. In addition, the book stresses that these approaches tend to provide green, sustainable solutions for industrial developments. Finally, the legal, economical and toxicity aspects of nanomaterials are covered in detail, making this is a comprehensive, important resource for anyone wanting to learn more about how nanomaterials are changing the way we create products in

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modern industry. Demonstrates how cutting-edge developments in nanomaterials translate into real-world innovations in a range of industry sectors Explores how using nanomaterials can help engineers to create innovative consumer products Discusses the legal, economical and toxicity issues arising from the industrial applications of nanomaterials

Sausages are privileged foods due to their diversity, nutritional value, deep roots in the culture of the peoples and economic importance. In order to increase the knowledge and to improve the quality and

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safety of these foods, an intense research activity was developed from the early decades of the past century. This book includes ten research works and a review showing important and interesting advances and new approaches in most of the research topics related to sausages. After an editorial of the Editor reflecting the aims and contents of the book, the initial five chapters deal with microbiological issues of the sausage manufacture (characterization and study of the bacterial communities of sausages, study of the metabolism and the technological and safety characteristics of concrete microbial

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strains, and use of starter cultures to improve the sausage quality). Chemical hazards also receive some attention in this book with a chapter on the optimization of the smoking process of traditional dry-cured meat products to minimize the presence of PAHs. The partial or total replacement of the traditional ingredients in sausages with unconventional raw materials for the obtaining of novel and varied products are the subject of three chapters. Next, a chapter is dedicated to another interesting topic, the search and the essay of natural substitutes for synthetic additives due to

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the increasing interest of consumers in healthier meat products. The book ends with an interesting review on the safety, quality and analytical authentication of halal meat products, with particular emphasis on salami.

Predicasts F & S Index Europe

: Nutrition, Safety, Processing and Quality Improvement

Predicasts F & S Index Europe Annual

Nuclear Science Abstracts

The Legacy of Joseph Chatt

Metal by Tutorials (Second Edition):

Beginning Game Engine Development with Metal

CHEMISTRY FOR ENGINEERING STUDENTS, connects

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chemistry to engineering, math, and physics; includes problems and applications specific to engineering; and offers realistic worked problems in every chapter that speak to your interests as a future engineer. Packed with built-in study tools, this textbook gives you the resources you need to master the material and succeed in the course. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Build your own low-level game engine in Metal! This book introduces you to graphics programming in Metal - Apple's framework for programming on the GPU. You'll build your own game engine in Metal

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where you can create 3D scenes and build your own 3D games. Who This Book Is For This book is for intermediate Swift developers interested in learning 3D graphics or gaining a deeper understanding of how game engines work. Topics Covered in Metal by Tutorials The Rendering Pipeline: Take a deep dive through the graphics pipeline. 3D Models: Import 3D models with Model I/O and discover what makes up a 3D model. Coordinate Spaces: Learn the math behind 3D rendering. Lighting: Make your models look more realistic with simple lighting techniques. Textures & Materials: Design textures and surfaces for micro detail. Character Animation: Bring your 3D models to life with joints and animation. Tessellation: Discover

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how to use tessellation to add a greater level of detail using fewer resources. Environment: Add a sky to your scenes and use the sky image for lighting.

Instancing & Procedural Generation: Save resources with instancing, and generate scenes algorithmically.

Multipass & Deferred Rendering: Add shadows with advanced lighting effects. And more! After reading this book, you'll be prepared to take full advantage of graphics rendering with the Metal framework.

Membrane technologies are currently the most effective and sustainable methods utilized in diversified water filtration, wastewater treatment, as well as industrial and sustainable energy applications. This book covers essential subsections of membrane

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separation and bioseparation processes from the perspectives of technical innovation, novelty, and sustainability. The book offers a comprehensive overview of the latest improvements and concerns with respect to membrane fouling remediation techniques, issues of bioincompatibility for biomedical applications, and various subareas of membrane separation processes, which will be an efficient resource for engineers.

Materials, Modeling, Applications, and Future Perspectives

Annual Index

Moffett Field, California

Catalysing Energy Technology Transformations

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A Text for Biologists, Materials Scientists, and Geologists

Solid Propellant Chemistry Combustion and Motor Interior Ballistics 1999

The Lloyd's Register of Shipping records the details of merchant vessels over 100 gross tonnes, which are self-propelled and sea-going, regardless of classification. Before the time, only those vessels classed by Lloyd's Register were listed. Vessels are listed alphabetically by their current name.

Hydraulics and Pneumatics: A Technician's and Engineer's Guide provides an introduction to the components and operation of a hydraulic or pneumatic system. This book discusses the main advantages and disadvantages of pneumatic or hydraulic systems. Organized into eight

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chapters, this book begins with an overview of industrial prime movers. This text then examines the three different types of positive displacement pump used in hydraulic systems, namely, gear pumps, vane pumps, and piston pumps. Other chapters consider the pressure in a hydraulic system, which can be quickly and easily controlled by devices such as unloading and pressure regulating valves. This book discusses as well the importance of control valves in pneumatic and hydraulic systems to regulate and direct the flow of fluid from compressor or pump to the various load devices. The final chapter deals with the safe-working practices of the systems. This book is a valuable resource for process control engineers.

This book contains eight chapters that discuss the

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manufacturing methods, surface treatment, composite interfaces, microstructure-property relationships with underlying fundamental physical and mechanical principles, and applications of carbon fibers and their composites. Recently, carbon-based materials have received much attention for their many potential applications. The carbon fibers are very strong, stiff, and lightweight, enabling the carbon materials to deliver improved performance in several applications such as aerospace, sports, automotive, wind energy, oil and gas, infrastructure, defense, and semiconductors. However, the use of carbon fibers in cost-sensitive, high-volume industrial applications is limited because of their relatively high costs. However, its production is expected to increase because of its widespread use in high-

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volume industrial applications; therefore, the methods used for manufacturing carbon fibers and carbon-fiber-reinforced composites and their structures and characteristics need to be investigated.

Hydraulics and Pneumatics

(CANCELLED)

The Current Digest of the Post-Soviet Press

Star Wars Rogue One the Ultimate Visual Guide

Energy Technology Perspectives 2017

Properties and Applications of

Battery Management Systems - Design by Modelling describes the design of Battery Management Systems (BMS) with the aid of simulation methods. The basic tasks of BMS

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are to ensure optimum use of the energy stored in the battery (pack) that powers a portable device and to prevent damage inflicted on the battery (pack). This becomes increasingly important due to the larger power consumption associated with added features to portable devices on the one hand and the demand for longer run times on the other hand. In addition to explaining the general principles of BMS tasks such as charging algorithms and State-of-Charge (SoC) indication methods, the book also covers real-life examples of BMS functionality of practical portable devices such as shavers

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and cellular phones. Simulations offer the advantage over measurements that less time is needed to gain knowledge of a battery's behaviour in interaction with other parts in a portable device under a wide variety of conditions. This knowledge can be used to improve the design of a BMS, even before a prototype of the portable device has been built. The battery is the central part of a BMS and good simulation models that can be used to improve the BMS design were previously unavailable. Therefore, a large part of the book is devoted to the construction of simulation models for

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rechargeable batteries. With the aid of several illustrations it is shown that design improvements can indeed be realized with the presented battery models. Examples include an improved charging algorithm that was elaborated in simulations and verified in practice and a new SoC indication system that was developed showing promising results. The contents of Battery Management Systems - Design by Modelling is based on years of research performed at the Philips Research Laboratories. The combination of basic and detailed descriptions of battery behaviour both in chemical and electrical terms makes

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this book truly multidisciplinary. It can therefore be read both by people with an (electro)chemical and an electrical engineering background.

This extensively updated second edition of the already valuable reference targets research chemists and engineers who have chosen a career in the complex and essential petroleum industry, as well as other professionals just entering the industry who seek a comprehensive and accessible resource on petroleum processing. The handbook describes and discusses the key components and processes that make up the petroleum

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refining industry. Beginning with the basics of crude oils and their nature, it continues with the commercial products derived from refining and with related issues concerning their environmental impact. More in depth coverage of many topics previously covered in the first edition, such as hydraulic fracturing or fracking as it is often termed, help ensure this reference remains a relevant and up-to-date resource. At its core is a complete overview of the processes that make up a modern refinery, plus a brief history of the development of processes. Also described in detail are design techniques, operations

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and in the case of catalytic units, the chemistry of the reaction routes. These discussions are supported by calculation procedures and examples, which enable readers to use today's simulation-software packages. The handbook also covers off-sites and utilities, as well as environmental and safety aspects relevant to the industry. The chapter on refinery planning covers both operational planning and the decision making procedures for new or revamped processes. Major equipment used in the industry is reviewed along with details and examples of the process specifications for each. An

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extensive glossary and dictionary of the terms and expressions used in petroleum refining, plus appendices supplying data such as converging factors and selected crude oil assays, as well as an example of optimizing a refinery configuration using linear programming are all included to aid the reader. The 2nd edition of the Handbook of Petroleum Processing is an indispensable desk reference for chemists and engineers as well as an essential part of the libraries of universities with a chemical engineering faculty and oil refineries and engineering firms performing support functions or

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construction.

This complete textbook provides detailed content on the theory of operation, diagnosis, repair, and rebuilding of automotive engines. In addition to essential technical expertise, the text helps users develop the skills and knowledge they need for professional success, including critical thinking and awareness of key industry trends and practices. The text emphasizes universal repair techniques and case histories based on real-world scenarios to prepare users for careers in the field. Instructor resources include lesson plans, customizable lab sheets

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that address NATEF Standards, a customizable test bank with questions based on chapter content, presentations in PowerPoint, and more. Now updated with new, full-color images and information on the latest trends, tools, and technology—including hybrid engines and high-performance components—AUTOMOTIVE ENGINES: DIAGNOSIS, REPAIR, REBUILDING, Seventh Edition, is the ideal resource for automotive programs who want a complete teaching package for their Engines course. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook

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version.

Star Wars

Tunneling Field Effect Transistor Technology

Speednews

Advances in Membrane Technologies

Sausages

Modern Coordination Chemistry

This completely revised second edition includes new information on biomass in relation to climate change, new coverage of vital issues including the "food versus fuel" debate, and essential new information on "second generation" fuels and advances in conversion techniques. The book begins with a guide to biomass accumulation, harvesting, transportation and storage, as well as conversion

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technologies for biofuels. This is followed by an examination of the environmental impact and economic and social dimensions, including prospects for renewable energy. The book then goes on to cover all the main potential energy crops.

Coordination chemistry, as we know it today, has been shaped by major figures from the past, one of whom was Joseph Chatt. Beginning with a description of Chatt's career presented by co-workers, contemporaries and students, this fascinating book then goes on to show how many of today's leading practitioners in the field, working in such diverse areas as phosphines, hydrogen complexes, transition metal complexes and nitrogen fixation, have been influenced by Chatt. The reader is then brought right up-to-date with the

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inclusion of some of the latest research on these topics, all of which serves to underline Chatt's continuing legacy. Intended as a permanent record of Chatt's life, work and influence, this book will be of interest to lecturers, graduate students, researchers and science historians.

A Complete Reference to Species, Development and Applications

Automotive Engines

Design by Modelling

Soft Actuators

Space Systems as Contributors to the NATO Defence Mission

Review of the Literature on Daytime Running Lights (DRL)