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2021-04-07

CHEN MARIANA

Materials Fundamentals of Gate Dielectrics SIAM

This book describes the fundamentals of Supply Chain Management in clear and concise terms. It explains why in the near future real competition is going to be between supply chains and what the consequences will be. Managers and decision-makers will be able to build on their business's competitive advantage with the essentials provided in this work. The focus here is upon what you really need to know in order to optimally manage your processes in procurement, manufacturing, warehousing and logistics. In addition to a wealth of illustrations and examples, valuable suggestions for further expansive reading are included. Essential insights are provided into how to analyse and evaluate the supply chain, based upon key aspects from research and practice, which helps readers to initiate their own optimisation processes.

Introduction to Reticular Chemistry Springer Science & Business Media

Excellent bridge between general solid-state physics textbook and research articles packed with providing detailed explanations of the electronic, vibrational, transport, and optical properties of semiconductors "The most striking feature of the book is its modern outlook ... provides a wonderful foundation. The most wonderful feature is its efficient style of exposition ... an excellent book." Physics Today "Presents the theoretical derivations carefully and in detail and gives thorough discussions of the experimental results it presents. This makes it an excellent textbook both for learners and for more experienced researchers wishing to check facts. I have enjoyed reading it and strongly recommend it as a text for anyone working with semiconductors ... I know of no better text ... I am sure most semiconductor physicists will find this book useful and I recommend it to them." Contemporary Physics Offers much new material: an extensive appendix about the important and by now well-established, deep center known as the DX center, additional problems and the solutions to over fifty of the problems at the end of the various chapters.

Official Gazette of the United States Patent and Trademark Office Springer Science & Business Media

Frustrated Lewis Pairs: From Dihydrogen Activation to Asymmetric Catalysis, by Dianjun Chen, Jürgen Klankermayer Coexistence of Lewis Acid and Base Functions: A Generalized View of the Frustrated Lewis Pair Concept with Novel Implications for Reactivity, by Heinz Berke, Yanfeng Jiang, Xianghua Yang, Chunfang Jiang, Subrata Chakraborty, Anne Landwehr New Organoboranes in

"Frustrated Lewis Pair" Chemistry, by Zhenpin Lu, Hongyan Ye, Huadong Wang Paracyclophane Derivatives in Frustrated Lewis Pair Chemistry, by Lutz Greb, Jan Paradies Novel Al-Based FLP Systems, by Werner Uhl, Ernst-Ulrich Würthwein N-Heterocyclic Carbenes in FLP Chemistry, by Eugene L. Kolychev, Eileen Theuergarten, Matthias Tamm Carbon-Based Frustrated Lewis Pairs, by Shabana Khan, Manuel Alcarazo Selective C-H Activations Using Frustrated Lewis Pairs. Applications in Organic Synthesis, by Paul Knochel, Konstantin Karaghiosoff, Sophia Manolikakes FLP-Mediated Activations and Reductions of CO₂ and CO, by Andrew E. Ashley, Dermot O'Hare Radical Frustrated Lewis Pairs, by Timothy H. Warren and Gerhard Erker Polymerization by Classical and Frustrated Lewis Pairs, by Eugene Y.-X. Chen Frustrated Lewis Pairs Beyond the Main Group: Transition Metal-Containing Systems, by D. Wass Reactions of Phosphine-Boranes and Related Frustrated Lewis Pairs with Transition Metal Complexes, by Abderrahmane Amgoune, Ghenwa Bouhadir, Didier Bourissou **Technologies and Production Methods** Springer Science & Business Media

This revised edition discusses numerical methods for computing eigenvalues and eigenvectors of large sparse matrices. It provides an in-depth view of the numerical methods that are applicable for solving matrix eigenvalue problems that arise in various engineering and scientific applications. Each chapter was updated by shortening or deleting outdated topics, adding topics of more recent interest, and adapting the Notes and References section. Significant changes have been made to Chapters 6 through 8, which describe algorithms and their implementations and now include topics such as the implicit restart techniques, the Jacobi-Davidson method, and automatic multilevel substructuring.

Revista ABIGRAF. Editoriale Jaca Book

This book brings together a selection of the best papers from the sixteenth edition of the Forum on specification and Design Languages Conference (FDL), which was held in September 2013 in Paris, France. FDL is a well-established international forum devoted to dissemination of research results, practical experiences and new ideas in the application of specification, design and verification languages to the design, modeling and verification of integrated circuits, complex hardware/software embedded systems and mixed-technology systems.

Springer

Part I: Process design -- Introduction to design -- Process flowsheet development -- Utilities and energy efficient design -- Process simulation -- Instrumentation and process control -- Materials of construction -- Capital cost estimating -- Estimating revenues and production costs -- Economic evaluation of projects -- Safety and loss prevention -- General site considerations -- Optimization in

design -- Part II: Plant design -- Equipment selection, specification and design -- Design of pressure vessels -- Design of reactors and mixers -- Separation of fluids -- Separation columns (distillation, absorption and extraction) -- Specification and design of solids-handling equipment -- Heat transfer equipment -- Transport and storage of fluids.

Vistazo Springer

HologravureXlibris Corporation

Reference Data on Atoms, Molecules, and Ions Springer Science & Business Media

Complete evidence-based medical and surgical management of glaucoma for both the general ophthalmologist in practice and residents The only book that covers the new generation of glaucoma procedures including trabectome, trabecular bypass and canaloplasty, by the experts who developed them Includes the latest laser treatments for glaucoma including micro diode and titanium sapphire trabeculoplasty as well as laser from an external approach The most comprehensive coverage of the optic nerve and the importance of nerve fiber layer hemorrhage Provides an integrated approach to neovascular glaucoma merging treatment to the retina, with the use of new anti-VEGF drugs, tubes, and shunts to achieve the best outcome Integrates clinical science with basic science to outline the next steps in glaucoma therapy

Theory and Management of Strabismus Springer

Prominent international experts came together to present and debate the latest findings in the field at the 2007 International Workshop on Multimedia Content Analysis and Mining. This volume includes forty-six papers from the workshop as well as thirteen invited papers. The papers cover a wide range of cutting-edge issues, including all aspects of multimedia in the fields of entertainment, commerce, science, medicine, and public safety.

Frustrated Lewis Pairs II Wiley-VCH

From the reviews: "Haus' book provides numerous insights on topics of wide importance, and contains much material not available elsewhere in book form. [...] an indispensable resource for those working in quantum optics or electronics." Optics & Photonics News

Scientific and Technical Aerospace Reports Springer

Printers nowadays are having to learn new technologies if they are to remain competitive. This innovative, practical manual is specifically designed to cater to these training demands. Written by an expert in the field, the Handbook is unique in covering the entire spectrum of modern print media production. Despite its comprehensive treatment, it remains an easy-to-use, single-volume reference, with all the information clearly structured and readily retrievable. The author covers both traditional as well as computer-aided technologies in all stages of production, as well as electronic media and multimedia. He also deals with training, research, strategies and trends, showing readers how to implement the latest methods. With 1,200 pages, containing 1,500 illustrations - over half in colour - the Handbook conveys the current state of technology together with its specific terminology. The accompanying CD-ROM includes the entire manual in fully searchable form, plus additional software tools. Invaluable information for both beginners and "old hands" in printing works, publishing houses, trade associations, the graphics industry, and their suppliers.

Recommender Systems Handbook John Wiley & Sons

Materials Fundamentals of Dielectric Gates treats materials fundamentals of the novel gate

dielectrics that are being introduced into semiconductor manufacturing to ensure the continuous scaling of the CMOS devices. This is a very fast evolving field of research so the focus is materials, mostly transition metal oxide, that determine performance in device applications. The complexity of the structure-property relations in TM oxides makes the use of the state-of-the-art first-principles calculations necessary. Several chapters give a detailed description of the modern theory of polarization, and heterojunction band discontinuity within the framework of the density functional theory. Experimental methods include oxide melt solution calorimetry and differential scanning calorimetry, Raman scattering and other optical characterization techniques, transmission electron microscopy, and x-ray photoelectron spectroscopy. Since many of the problems encountered in the world of CMOS are also relevant for other semiconductors such as GaAs, a comprehensive review of recent developments in this field is thus also given

Paperboard Packaging Hologravure

Essentials of Computational Chemistry provides a balanced introduction to this dynamic subject. Suitable for both experimentalists and theorists, a wide range of samples and applications are included drawn from all key areas. The book carefully leads the reader through the necessary equations providing information explanations and reasoning where necessary and firmly placing each equation in context.

Handbook of Print Media Springer Science & Business Media

This second edition of a well-received text, with 20 new chapters, presents a coherent and unified repository of recommender systems' major concepts, theories, methodologies, trends, and challenges. A variety of real-world applications and detailed case studies are included. In addition to wholesale revision of the existing chapters, this edition includes new topics including: decision making and recommender systems, reciprocal recommender systems, recommender systems in social networks, mobile recommender systems, explanations for recommender systems, music recommender systems, cross-domain recommendations, privacy in recommender systems, and semantic-based recommender systems. This multi-disciplinary handbook involves world-wide experts from diverse fields such as artificial intelligence, human-computer interaction, information retrieval, data mining, mathematics, statistics, adaptive user interfaces, decision support systems, psychology, marketing, and consumer behavior. Theoreticians and practitioners from these fields will find this reference to be an invaluable source of ideas, methods and techniques for developing more efficient, cost-effective and accurate recommender systems.

Fundamentals of Semiconductors Xlibris Corporation

This book constitutes the thoroughly refereed proceedings of the 7th Italian Research Conference on Digital Libraries held in Pisa, Italy, in January 2011. The 20 revised full papers presented were carefully reviewed and cover topics of interest such as system interoperability and data integration; formal and methodological foundations of digital libraries; semantic web and linked data for digital libraries; multilingual information access; digital library infrastructures; metadata creation and management; search engines for digital library systems; evaluation and log data; handling audio/visual and non-traditional objects; user interfaces and visualization; digital library quality.

Binocular Vision and Ocular Motility Springer

This reference book contains information about the structure and properties of atomic and molecular

particles, as well as some of the nuclear parameters. It includes data which can be of use when studying atomic and molecular processes in the physics of gases, chemistry of gases and gas optics, in plasma physics and plasma chemistry, in physical chemistry and radiation chemistry, in geophysics, astrophysics, solid-state physics and a variety of cross-disciplinary fields of science and technology. Our aim was to collect carefully selected and estimated numerical values for a wide circle of microscopic parameters in a relatively "not thick" book. These values are of constant use in the work of practical investigators. In essence, the book represents a substantially revised and extended edition of our reference book published in Russian in 1980. Two main reasons made it necessary to rework the material. On the one hand, a great deal of new high-quality data has appeared in the past few years and furthermore we have enlisted many sources of information previously inaccessible to us. On the other hand, we have tried to insert extensive information on new, rapidly progressing branches of physical research, such as multiply charged ions, Rydberg atoms, van der Waals and excimer molecules, complex ions, etc. All this brings us to the very edge of studies being carried out in the field.

Principles, Practice and Economics of Plant and Process Design I B D Limited

This book is the author's dissertation on "Development Hologravure for Production in United States" for the degree of PhD requirements in business administration.

Color Hard Copy and Graphic Arts Elsevier

Advanced Flip Chip Packaging presents past, present and future advances and trends in areas such as substrate technology, material development, and assembly processes. Flip chip packaging is now in widespread use in computing, communications, consumer and automotive electronics, and the

demand for flip chip technology is continuing to grow in order to meet the need for products that offer better performance, are smaller, and are environmentally sustainable.

Referativnyi zhurnal Springer Science & Business Media

A concise introduction to the chemistry and design principles behind important metal-organic frameworks and related porous materials Reticular chemistry has been applied to synthesize new classes of porous materials that are successfully used for myriad applications in areas such as gas separation, catalysis, energy, and electronics. Introduction to Reticular Chemistry gives an unique overview of the principles of the chemistry behind metal-organic frameworks (MOFs), covalent organic frameworks (COFs), and zeolitic imidazolate frameworks (ZIFs). Written by one of the pioneers in the field, this book covers all important aspects of reticular chemistry, including design and synthesis, properties and characterization, as well as current and future applications. Designed to be an accessible resource, the book is written in an easy-to-understand style. It includes an extensive bibliography, and offers figures and videos of crystal structures that are available as an electronic supplement. Introduction to Reticular Chemistry: -Describes the underlying principles and design elements for the synthesis of important metal-organic frameworks (MOFs) and related materials -Discusses both real-life and future applications in various fields, such as clean energy and water adsorption -Offers all graphic material on a companion website -Provides first-hand knowledge by Omar Yaghi, one of the pioneers in the field, and his team. Aimed at graduate students in chemistry, structural chemists, inorganic chemists, organic chemists, catalytic chemists, and others, Introduction to Reticular Chemistry is a groundbreaking book that explores the chemistry principles and applications of MOFs, COFs, and ZIFs.

Selected Contributions from FDL 2013 Springer