

Atomic Scale Characterization And First Principles Studies Of Sin Interfaces Springer Theses

Atomic Scale Characterization and First-Principles Studies of Si₃N₄ Interfaces Textbooks? Not Yet-We Must Teach Character First! *First 100 Chinese Characters: Simplified Character Edition* 106-2 Hearing: "The First Tee: Building Character Education", Serial No. 107-68, June 25, 2002, * *Miscellanies of Literature: Quarrels of authors. Character of James the First. Literary miscellanies* Discourse on the Life and Character of George Calvert, the First Lord Baltimore *The First Annual Jubilee Oration Upon the Life, Character, and Genius of Shakspeare* **The First Annual Jubilee Oration Upon the Life, Character, and Genius of Shakspeare. Delivered at Stratford-upon-Avon, April 23rd, 1836** *The First 100 Chinese Characters: Simplified Character Edition* Introduction to Crystal Growth and Characterization **Polymer Brushes Attosecond and XUV Physics** Code of Federal Regulations **Torsors, Reductive Group Schemes and Extended Affine Lie Algebras** Analysis of In-service Failures and Advances in Microstructural Characterization ?????????????????? *Structured-photon-enabled Quantum-secured Communication and Spatio-temporal Characterization of Terahertz Pulses* Photonic Crystals **IBM Technical Disclosure Bulletin** **Low Dimensional Semiconductor Structures** *First 100 Chinese Characters: Traditional Character Edition* **Ultrasonic Techniques for Fluids Characterization Actors' and Performers' Yearbook 2020 Clay's Handbook of Environmental Health** *Is Character Sexy?* PHP Programming with MySQL: The Web Technologies Series **The Sol-Gel Handbook** *Palladacycles Report* ZW. *Light Weight Materials* **Character Studies in the Old Testament** Discovery of the first LBL/IBL Objects at Very High Energy Gamma-Rays Introduction to Porous Materials *Programming in C++* *The Descent of Man, and Selection in Relation to Sex ... Second Edition, Revised and Augmented, with Illustrations. Tenth Thousand* **Papers and Presentations SML PC ARC/INFO Documentation: SML user's guide** *Drug Transporters* *InfoWorld*

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Discourse on the Life and Character of George Calvert, the First Lord Baltimore May 29 2022

Analysis of In-service Failures and Advances in Microstructural Characterization Aug 20 2021 (Microstructural Science Vol. 26). Proceedings from the 31st Annual International Metallographic Society (IMS) Convention, held 26-29 July 1998 in Ottawa, Ontario, Canada. Contents: Analysis of In-Service Failures (tutorials, transportation industry, corrosion and materials degradation, electronic and advanced materials) 1998 Sorby Award Lecture by Kay Geels, Struers A/S ('Metallographic Preparation from Sorby to the Present') Advances in Microstructural Characterization (characterization techniques using high resolution and focused ion beam, characterization of microstructural clustering and correlation with performance) Advanced Applications (advanced alloys and intermetallic compounds, plasma spray coatings and other surface coatings, corrosion, and materials degradation).

Atomic Scale Characterization and First-Principles Studies of Si₃N₄ Interfaces Nov 03 2022 This thesis presents results from a combined atomic-resolution Z-contrast and annular bright-field imaging and electron energy loss spectroscopy in the Scanning Transmission Electron Microscopy, as well as first principles studies of the interfaces between crystalline ??Si₃N₄ and amorphous (i) CeO_{2-x} as well as (ii) SiO₂ intergranular film (IGF). These interfaces are of a great fundamental and technological interest because they play an important role in the microstructural evolution and mechanical properties of Si₃N₄ ceramics used in many high temperature and pressure applications. The main contribution of this work is its detailed description of the bonding characteristics of light atoms, in particular oxygen and nitrogen, at these interfaces, which has not been achieved before. The atomic-scale information on the arrangement of both light and heavy atoms is critical for realistic modeling of interface properties, such as interface strength and ion transport, and will facilitate increased control over the performance of ceramic and semiconductor materials for a wide-range of applications.

Light Weight Materials May 05 2020 In the automotive and aerospace industries, the need for strong yet light materials has given rise to extensive research into aluminum and magnesium alloys and formable titanium alloys. All of these are categorized as light weight materials. The distinguishing feature of light weight materials is that they are low density, but they have a wide range of properties and, as a result, a wide range of applications. This book provides researchers and students with an overview of the recent advancements in light weight material processing, manufacturing and characterization. It contains chapters by eminent researchers on topics associated with light weight materials, including on the current buzzword "composite materials". First, this book describes the current status of light weight materials. Then, it studies applications of these materials, given that, as the densities vary, so do the applications, ranging from automobiles and aviation to bio-mechatronics. This book will therefore serve as an excellent guide to this field.

First 100 Chinese Characters: Simplified Character Edition Sep 01 2022 This book is a quick and easy way to learn basic Chinese Characters. All beginning Chinese language learners struggle to memorize and learn to write Chinese characters. The First 100 Chinese Characters adopts a structural approach which helps students to quickly master the basic characters that are fundamental to this language. Intended for beginning Chinese students, this character book presents characters that have been carefully selected for rapid and effective learning. The English meanings, pronunciations in hanyu pinyin and alternate forms (if any) for each Chinese character are presented along with a stroke order guide and spaces for writing practice. Printed with gray guidelines, the stroke order guides are designed to be traced over to teach students the standard sequence of strokes used to write the character. Related compounds and phrases are given to assist in vocabulary building. Three indexes at the back allow the characters to be looked up by their English meanings, hanyu pinyin pronunciations, or radicals. Extra practice sheets are also provided. This Chinese character book contains: Step-by-step stroke order diagrams show you how to write each character. Special boxes with grid lines help you practice writing them correctly. Compounds and sample sentences provide easy vocabulary building. Hanyu pinyin romanizations identify and help you pronounce every word.

PHP Programming with MySQL: The Web Technologies Series Sep 08 2020 This book covers the basics of PHP and MySQL along with introductions to advanced topics including object-oriented programming and

how to build Web sites that incorporate authentication and security. After you complete this course, you will be able to use PHP and MySQL to build professional quality, database-driven Web sites. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Ultrasonic Techniques for Fluids Characterization Jan 13 2021 This book is a comprehensive and practical guide to the use of ultrasonic techniques for the characterization of fluids. Focusing on ultrasonic velocimetry, the author covers the basic topics and techniques necessary for successful ultrasound measurements on emulsions, dispersions, multiphase media, and viscoelastic/viscoplastic materials. Advanced techniques such as scattering, particle sizing, and automation are also presented. As a handbook for industrial and scientific use, Ultrasonic Techniques for Fluids Characterization is an indispensable guide to chemists and chemical engineers using ultrasound for research or process monitoring in the chemical, food processing, pharmaceutical, cosmetic, biotechnology, and fuels industries. Appeals to anyone using ultrasound to study fluids Provides the first detailed description of the ultrasound profiling technique for dispersions Describes new techniques for measuring phase transitions and nucleation, such as water/ice and oil/fat Presents the latest ultrasound techniques for particle sizing in concentrated systems Explains new techniques for compressibility measurements in dispersions and fluids, including cell suspensions Contains a detailed treatment of ultrasound scattering theory Written by one of the leading researchers in the field Includes over 350 references to the primary literature

Papers and Presentations Oct 29 2019

SML Sep 28 2019

Palladacycles Jul 07 2020 From synthesis to applications in catalysis, material science and biology this much-needed book is the first to comprehensively present everything you need to know about palladacycles. Renowned international authors guarantee high-quality content, making this a must-have for everyone working in the field.

PC ARC/INFO Documentation: SML user's guide Aug 27 2019

Report ZW. Jun 05 2020

The First Annual Jubilee Oration Upon the Life, Character, and Genius of Shakspeare. Delivered at Stratford-upon-Avon, April 23rd, 1836 Mar 27 2022

InfoWorld Jun 25 2019 InfoWorld is targeted to Senior IT professionals. Content is segmented into Channels and Topic Centers. InfoWorld also celebrates people, companies, and projects.

The Sol-Gel Handbook Aug 08 2020 This comprehensive three-volume handbook brings together a review of the current state together with the latest developments in sol-gel technology to put forward new ideas. The first volume, dedicated to synthesis and shaping, gives an in-depth overview of the wet-chemical processes that constitute the core of the sol-gel method and presents the various pathways for the successful synthesis of inorganic and hybrid organic-inorganic materials, bio- and bio-inspired materials, powders, particles and fibers as well as sol-gel derived thin films, coatings and surfaces. The second volume deals with the mechanical, optical, electrical and magnetic properties of sol-gel derived materials and the methods for their characterization such as diffraction methods and nuclear magnetic resonance, infrared and Raman spectroscopies. The third volume concentrates on the various applications in the fields of membrane science, catalysis, energy research, biomaterials science, biomedicine, photonics and electronics.

Programming in C++ Jan 01 2020 This up-to-date book covers Computer Science fundamentals using the programming language C++. Important features include testing with popular DOS, Windows and Macintosh compilers, hands-on exercises, end-of-section problems, and five case studies at varying levels of complexity.

Introduction to Porous Materials Jan 31 2020 The first comprehensive textbook on the timely and rapidly developing topic of inorganic porous materials This is the first textbook to completely cover a broad range of inorganic porous materials. It introduces the reader to the development of functional porous inorganic materials, from the synthetic zeolites in the 50's, to today's hybrid materials such as metal-organic frameworks (MOFs), covalent organic frameworks (COFs) and related networks. It also provides the necessary background to understand how porous materials are organized, characterized, and applied in adsorption, catalysis, and many other domains. Additionally, the book explains characterization and application from the materials scientist viewpoint, giving the reader a practical approach on the characterization and application of the respective materials. Introduction to Inorganic Porous Materials begins by describing the basic concepts of porosity and the different types of pores, surfaces, and amorphous versus crystalline materials, before introducing readers to nature's porous materials. It then goes on to cover everything from adsorption and catalysis to amorphous materials such as silica to inorganic carbons and Periodic Mesoporous Organosilicas (PMOs). It discusses the synthesis and applications of MOFs and the broad family of COFs. It concludes with a look at future prospects and emerging trends in the field. The only complete book of its kind to cover the wide variety of inorganic and hybrid porous materials A comprehensive reference and outstanding tool for any course on inorganic porous materials, heterogeneous catalysis, and adsorption Gives students and investigators the opportunity to learn about porous materials, how to characterize them, and understand how they can be applied in different fields Introduction to Inorganic Porous Materials is an excellent book for students and professionals of inorganic chemistry and materials science with an interest in porous materials, functional inorganic materials, heterogeneous catalysis and adsorption, and solid state characterization techniques.

Discovery of the first LBL/IBL Objects at Very High Energy Gamma-Rays Mar 03 2020

Low Dimensional Semiconductor Structures Mar 15 2021 Starting with the first transistor in 1949, the world has experienced a technological revolution which has permeated most aspects of modern life, particularly over the last generation. Yet another such revolution looms up before us with the newly developed capability to control matter on the nanometer scale. A truly extraordinary research effort, by scientists, engineers, technologists of all disciplines, in nations large and small throughout the world, is directed and vigorously pressed to develop a full understanding of the properties of matter at the nanoscale and its possible applications, to bring to fruition the promise of nanostructures to introduce a new generation of electronic and optical devices. The physics of low dimensional semiconductor structures, including heterostructures, superlattices, quantum wells, wires and dots is reviewed and their modeling is discussed in detail. The truly exceptional material, Graphene, is reviewed; its functionalization and Van der Waals interactions are included here. Recent research on optical studies of quantum dots and on the physical properties of one-dimensional quantum wires is also reported. Chapters on fabrication of nanowire – based nanogap devices by the dielectrophoretic assembly approach. The broad spectrum of research reported here incorporates chapters on nanoengineering and nanophysics. In its presentation of tutorial chapters as well as advanced research on nanostructures, this book is ideally suited to meet the needs of newcomers to the field as well as experienced researchers interested in viewing colleagues' recent advances.

The Descent of Man, and Selection in Relation to Sex ... Second Edition, Revised and Augmented, with Illustrations. Tenth Thousand Nov 30 2019

Clay's Handbook of Environmental Health Nov 10 2020 This classic, definitive reference work for all those involved in environmental health is now available in its 19th edition. Significant changes include those made to chapters on food safety and hygiene, environmental protection, the organisation and management of environmental health in the UK, port health, and waste management. New chapters have been added on health development, an introduction to health and housing, contaminated land, and environmental health in emergency planning, as well as a new glossary of abbreviations and acronyms. New material on training and standards, IT, practical risk assessment, and investigatory powers is also included. Each chapter reflects the wider background against which the subjects must be studied and the new concepts and approaches that have emerged over the past few years.

Photonic Crystals May 17 2021 The majority of the contributions in this topically edited book stems from the priority program SPP 1113 "Photonische Kristalle" run by the Deutsche Forschungsgemeinschaft (DFG),

resulting in a survey of the current state of photonic crystal research in Germany. The first part of the book describes methods for the theoretical analysis of their optical properties as well as the results. The main part is dedicated to the fabrication, characterization and modeling of two- and three-dimensional photonic crystals, while the final section presents a wide spectrum of applications: gas sensors, micro-lasers, and photonic crystal fibers. Illustrated in full color, this book is not only of interest to advanced students and researchers in physics, electrical engineering, and material science, but also to company R&D departments involved in photonic crystal-related technological developments.

The First 100 Chinese Characters: Simplified Character Edition Feb 23 2022 This book is a quick and easy way to learn basic Chinese Characters. All beginning Chinese language learners struggle to memorize and learn to write Chinese characters. The First 100 Chinese Characters adopts a structural approach which helps students to quickly master the basic characters that are fundamental to this language. This character book is intended for beginning Chinese students. It presents characters that have been carefully selected for rapid and effective learning. The English meanings, pronunciations in hanyu pinyin and alternate forms (if any) for each Chinese character are presented along with a stroke order guide and spaces for writing practice. Printed with gray guidelines, the stroke order guides are designed to be traced over to teach students the standard sequence of strokes used to write the character. Related compounds and phrases are given to assist in vocabulary building. Three indexes at the back allow the characters to be looked up by their English meanings, hanyu pinyin pronunciations, or radicals. Extra practice sheets are also provided. This Chinese character book contains: Step-by-step stroke order diagrams show you how to write each character. Special boxes with grid lines help you practice writing them correctly. Compounds and sample sentences provide easy vocabulary building. Hanyu pinyin romanizations identify and help you pronounce every word.

Introduction to Crystal Growth and Characterization Jan 25 2022 This new textbook provides for the first time a comprehensive treatment of the basics of contemporary crystallography and crystal growth in a single volume. The reader will be familiarized with the concepts for the description of morphological and structural symmetry of crystals. The architecture of crystal structures of selected inorganic and molecular crystals is illustrated. The main crystallographic databases as data sources of crystal structures are described. Nucleation processes, their kinetics and main growth mechanism will be introduced in fundamentals of crystal growth. Some phase diagrams in the solid and liquid phases in correlation with the segregation of dopants are treated on a macro- and microscale. Fluid dynamic aspects with different types of convection in melts and solutions are discussed. Various growth techniques for semiconducting materials in connection with the use of external field (magnetic fields and microgravity) are described. Crystal characterization as the overall assessment of the grown crystal is treated in detail with respect to - crystal defects - crystal quality - field of application *Introduction to Crystal Growth and Characterization* is an ideal textbook written in a form readily accessible to undergraduate and graduate students of crystallography, physics, chemistry, materials science and engineering. It is also a valuable resource for all scientists concerned with crystal growth and materials engineering.

Actors' and Performers' Yearbook 2020 Dec 12 2020 This well-established and respected directory supports actors in their training and search for work on stage, screen and radio. It is the only directory to provide detailed information for each listing and specific advice on how to approach companies and individuals, saving hours of further research. From agents and casting directors to producing theatres, showreel companies, photographers and much more, this essential reference book editorially selects only the most relevant and reputable contacts for the actor. With several new articles including *The multi-hyphenate comedy actor-performer-writer*; *Ignition, inspiration and the imposter*; *Be prepared for publicity*; and *Equity pension scheme*, *Actors' and Performers' Yearbook 2020* features aspects of the profession not previously covered, as well as continuing to provide valuable insight into auditions, interviews and securing work alongside a casting calendar and financial issues. This is a valuable professional tool in an industry where contacts and networking are key to career survival. All listings have been updated alongside fresh advice from industry experts.

Is Character Sexy? Oct 10 2020

Polymer Brushes Dec 24 2021 Materials scientists, polymer chemists, surface physicists and materials engineers will find this book a complete and detailed treatise on the field of polymer brushes, their synthesis, characterization and manifold applications. In a first section, the various synthetic pathways and different surface materials are introduced and explained, followed by a second section covering important aspects of characterization and analysis in both flat surfaces and particles. These specific surface initiated polymerization (SIP) systems such as linear polymers, homopolymers, block copolymers, and hyperbranched polymers are unique compared to previously reported systems by chemisorption or physisorption. They have found their way in both large-scale and miniature applications of polymer brushes, which is covered in the last section. Such 'hairy' surfaces offer fascinating opportunities for addressing numerous problems of both academic and, in particular, industrial interest: high-quality, functional or protective coatings, composite materials, surface engineered particles, metal-organic interfaces, biological applications, micro-patterning, colloids, nanoparticles, functional devices, and many more. It is the desire of the authors that this book will be of benefit to readers who want to "brush-up on polymers".

Structured-photon-enabled Quantum-secured Communication and Spatio-temporal Characterization of Terahertz Pulses Jun 17 2021 "My Ph.D. research mainly focuses on two distinctive aspects of light: the secure communications enabled by the quantum nature of light, and the computational spatio-temporal characterization of terahertz pulses. In the first topic, my study aims to enhance the secure key rate in free-space quantum key distribution with orbital-angular-momentum (OAM) encoding. In the second topic, I focus on developing generic characterization methods to efficiently measure the spatio-temporal structure of terahertz (THz) pulses. In the first chapter, we give a brief review on the Shannon information theory, principles of QKD and the development of OAM QKD in the past decade. Major challenges in this research area will be addressed as well. In the second chapter, we focus on the disclosure of optimal information carrier in OAM QKD, which aims to improve the transmission efficiency and robustness against atmospheric turbulence. In chapter three, we discuss the security loophole in OAM QKD when the dimensionality of the encoding space and communication distance are large, and provide our solution to mitigate it. In chapter four, we present our study of the mitigation of atmospheric turbulence in free-space OAM QKD through the use of adaptive optics, aiming to improve the fidelity of transmitted quantum states. Two different communication links are studied under different conditions. Based on our observation, a prototype AO system designed exclusively for OAM QKD is proposed. A summary and the outlook of free-space OAM QKD will be present in chapter five. We turn to discuss the computational characterization of THz pulses in the remaining chapters. A brief introduction of THz techniques and the concepts of single-pixel imaging as well as compressive sensing be presented in chapter six. In the seventh chapter, we focus on the spatial measurement of THz fields. By developing the concept of probe-beam encoding, a simplified system with an improved flexibility and stability is demonstrated using computational algorithms. In chapter eight, we propose a new concept of ultrafast sensing: temporal single-pixel imaging, and demonstrate its effectiveness for both the THz and optical bands. In chapter 9, we summarize our development in THz sensing and propose a possible direction to achieve single-pixel hyperspectral imaging"--Pages xviii-xix.

Torsors, Reductive Group Schemes and Extended Affine Lie Algebras Sep 20 2021 The authors give a detailed description of the torsors that correspond to multiloop algebras. These algebras are twisted forms of simple Lie algebras extended over Laurent polynomial rings. They play a crucial role in the construction of Extended Affine Lie Algebras (which are higher nullity analogues of the affine Kac-Moody Lie algebras). The torsor approach that the authors take draws heavily from the theory of reductive group schemes developed by M. Demazure and A. Grothendieck. It also allows the authors to find a bridge between multiloop algebras and the work of F. Bruhat and J. Tits on reductive groups over complete local fields.

Drug Transporters Jul 27 2019 DRUG TRANSPORTERS Drug transporter fundamentals and relevant principles and techniques, featuring new and expanded chapters *Drug Transporters: Molecular Characterization and Role in Drug Disposition* provides in-depth analysis of the conceptual evolution and technical development for studying drug transporters. Contributions by an international panel of leading researchers address advances

in transporters as drug targets, transporters in pharmacotherapy, the impact of transporters on drug efficacy and safety, the development of sophisticated model systems and sensitive assay methods, and more. Divided into two parts, the book first provides a thorough overview of relevant drug transporters before detailing the principles of drug transport and associated techniques. The updated and expanded third edition includes new chapters on in vitro-in vivo scale-up of drug transport activities, the ontogeny of drug transporters, the application of physiologically-based pharmacokinetic and pharmacodynamic modeling, and the use of transporters as therapeutic targets for diseases. Reflects the current state of the field and offers perspectives on future directions Covers basic knowledge, clinical outcomes, and emerging discoveries in transporter science Provides up-to-date information on drug transporter families, mechanisms, and clinical implications Includes extensive references and numerous figures and tables throughout Understandable for novices while offering sufficient depth for more experienced researchers, Drug Transporters: Molecular Characterization and Role in Drug Disposition, Third Edition is an excellent textbook for pharmacological or physiological science courses in drug/membrane transport, and an invaluable reference for academic or industrial scientists working in the transporter field and related areas of drug metabolism, pharmacokinetics, and pharmacodynamics.

Textbooks? Not Yet-We Must Teach Character First! Oct 02 2022 Looking for a better way? Well here it is! This book is so practical it is scary. Really! Whether you are a first year teacher, seasoned teacher, an administrator or still in college trying to decide if the education route is for you, this book works. The author gives clearly detailed ideas guiding you through the first days and weeks of school. She provides tables and charts to further articulate ideas about how to make the concepts work. She does not leave anything out. The title may seem a bit unorthodox, but there is a reason for that. Textbooks and information alone do not engage our children in the classroom or in life. When we teach them how to develop their individual and collective sense of character first, they become engaged in learning and never look back. This book is a must read for any organization on the cutting edge of education today.

The First Annual Jubilee Oration Upon the Life, Character, and Genius of Shakspeare Apr 27 2022

Miscellanies of Literature: Quarrels of authors. Character of James the First. Literary miscellanies Jun 29 2022

Attosecond and XUV Physics Nov 22 2021 This book provides fundamental knowledge in the fields of attosecond science and free electron lasers, based on the insight that the further development of both disciplines can greatly benefit from mutual exposure and interaction between the two communities. With respect to the interaction of high intensity lasers with matter, it covers ultrafast lasers, high-harmonic generation, attosecond pulse generation and characterization. Other chapters review strong-field physics, free electron lasers and experimental instrumentation. Written in an easy accessible style, the book is aimed at graduate and postgraduate students so as to support the scientific training of early stage researchers in this emerging field. Special emphasis is placed on the practical approach of building experiments, allowing young researchers to develop a wide range of scientific skills in order to accelerate the development of spectroscopic techniques and their implementation in scientific experiments. The editors are managers of a research network devoted to the education of young scientists, and this book idea is based on a summer school organized by the ATTOFEL network.

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Character Studies in the Old Testament Apr 03 2020

First 100 Chinese Characters: Traditional Character Edition Feb 11 2021 This book is a quick and easy way to learn basic Chinese Characters. All beginning Chinese language learners struggle to memorize and learn to write Chinese characters. The First 100 Chinese Characters adopts a structural approach which helps students to quickly master the basic characters that are fundamental to this language. Intended for beginning Chinese students, this character book presents characters that have been carefully selected for rapid and effective learning. The English meanings, pronunciations in hanyu pinyin and alternate forms (if any) for each Chinese character are presented along with a stroke order guide and spaces for writing practice. Printed with gray guidelines, the stroke order guides are designed to be traced over to teach students the standard sequence of strokes used to write the character. Related compounds and phrases are given to assist in vocabulary building. Three indexes at the back allow the characters to be looked up by their English meanings, hanyu pinyin pronunciations, or radicals. Extra practice sheets are also provided. This Chinese character book contains: Step-by-step stroke order diagrams show you how to write each character. Special boxes with grid lines help you practice writing them correctly. Compounds and sample sentences provide easy vocabulary building. Hanyu pinyin romanizations identify and help you pronounce every word.

106-2 Hearing: "The First Tee: Building Character Education", Serial No. 107-68, June 25, 2002, * Jul 31 2022

IBM Technical Disclosure Bulletin Apr 15 2021

Code of Federal Regulations Oct 22 2021