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Shrinking Japan and Regional Variations: Along the Hokurikudo and the Tosando II Superconductor Superconductivity **Iron-Based Superconductivity Arbitrium 100 Years of Superconductivity "Ein frölich gemüt zu machen in schweren zeiten -"** *Three Phase Partitioning* High-Tc Superconductors Based on FeAs Compounds Elastic and Inelastic Scanning Tunneling Spectroscopy on Iron-Based Superconductors *Microstructure and Properties of High-Temperature Superconductors Handbook of Superconductivity Electronic Structure of Materials* **Mössbauer Spectroscopy** Yeast Biotechnology Merkantiles Erzählen – Von Kauf und Verkauf in mittelhochdeutscher Literatur Hochtemperatur-Supraleitung *Deutschsprachige Literatur des Mittelalters* **Handbook on the Physics and Chemistry of Rare Earths** Die Kleinepik des Strickers *Iron-Based Superconducting Thin Films* **Superconductors** *Photonic and Electronic Properties of Fluoride Materials KURRI Progress Report* Autor und Autorschaft im Mittelalter Cumulated Index Medicus *Iron-based Superconductors* High Temperature Superconductivity **Candida Albicans** *High Temperature Superconducting Magnetic Levitation* **Der englische Eulenspiegel** *Historische Narratologie, mediävistische Perspektiven Quantifying Stone Age Mobility* **Modern Japanese Theatre and Performance Superconductors** *Superconducting State Layered Superconductors* "*Höfisch*" *im Mittelhochdeutschen* **Neonatal Malignant Disorders, An Issue of Clinics in Perinatology Materials Aspect of Thermoelectricity**

Superconductors Dec 02 2019 Superconductors is neither about basic aspects of superconductivity nor about its applications, but its mainstay is superconducting materials. Unusual and unconventional features of a large variety of novel superconductors are presented and their technological potential as practical superconductors assessed. The book begins with an introduction to basic aspects of superconductivity. The presentation is readily accessible to readers from a diverse range of scientific and technical disciplines, such as metallurgy, materials science, materials engineering, electronic and device engineering, and chemistry. The derivation of mathematical formulas and equations has been kept to a minimum and, wherever necessary, short appendices with essential mathematics have been added at the end of the text. The book is not meant to serve as an encyclopaedia, describing each and every superconductor that exists, but focuses on important milestones in their exciting development.
Mössbauer Spectroscopy Sep 22 2021 Providing a modern update of the field, Mossbauer Spectroscopy focuses on applications across a broad range of fields, including analysis of inorganic elements, nanoparticles, metalloenzymyes, biomolecules (including proteins), glass, coal, and iron. Ideal for a broad range of scientists, this one-stop reference presents advances gained in the field over past two decades, including a detailed theoretical description of Mossbauer spectroscopy, an extensive treatment of Mossbauer spectroscopy in applied areas, and challenges and future opportunities for the further development of this technique.
Handbook of Superconductivity Nov 24 2021 This is the second of three volumes of the extensively revised and updated second edition of the Handbook of Superconductivity. The past twenty years have seen rapid progress in superconducting materials, which exhibit one of the most remarkable physical states of matter ever to be discovered. Superconductivity brings quantum mechanics to the scale of the everyday world where a

single, coherent quantum state may extend over a distance of metres, or even kilometres, depending on the size of a coil or length of superconducting wire. Viable applications of superconductors rely fundamentally on an understanding of this intriguing phenomena and the availability of a range of materials with bespoke properties to meet practical needs. While the first volume covers the fundamentals of superconductivity and the various classes of superconducting materials, Volume 2 covers processing of the desired superconducting materials into desired forms: bulks, films, wires and junction-based devices. The volume closes with articles on the refrigeration methods needed to put the materials into the superconducting state. Key Features: Covers the depth and breadth of the field Includes contributions from leading academics and industry professionals across the world Provides hands-on guidance to the manufacturing and processing technologies A comprehensive reference, the handbook is suitable for both graduate students and practitioners in experimental physics, materials science, and multiple engineering disciplines, including electronic and electrical, chemical, mechanical, metallurgy and others.

Quantifying Stone Age Mobility Feb 02 2020 This book focuses on the analysis of different scales of mobility and addresses parameters and proxies of population movement aiming at the formation of a ground for the further development of quantitative approaches. In order to do so, the volume explores wide scale mobility (environmental contexts and cross-cultural trends), seasonal mobility of Paleolithic and Mesolithic hunter-gatherers, and migration, niche construction, utilitarian and non- utilitarian factors of mobility. Chapters in the volume include case studies from across Europe and Asia. The editors introduction addresses the current state of mobility discourse in archaeology. The chapters address questions related to parameters used to describe different factors of movement and examines correlations between parameters describing environmental diversity, demography, and the values representing spatial movement. This volume is of interest to students and researchers of mobility of human beings in the past.

Superconductors Jan 15 2021 The book presents the current status of superconductor science and technology. It focuses on the design, properties and applications of superconductor materials. The superconductor categories covered include type-I, type-II, bulk, hard, soft, oxide, fermions, organic, iron, Lanthanide-based superconductors, high temperature superconductors and superconducting metamaterials. Keywords: Superconductors, Large-Scale Applications, Bulk Superconductors, Soft Superconductors, Oxide Superconductors, Lanthanide-based Superconductors, High Temperature Superconductors, Superconducting Metamaterials, Medical Applications, Magnetic Imaging Resonance Applications.

Electronic Structure of Materials Oct 24 2021 Most textbooks in the field are either too advanced for students or don't adequately cover current research topics. Bridging this gap, Electronic Structure of Materials helps advanced undergraduate and graduate students understand electronic structure methods and enables them to use these techniques in their work.Developed from the author's lecture

Modern Japanese Theatre and Performance Jan 03 2020 Modern Japanese Theatre and Performance is a collection of sixteen essays on Japanese theatre, including historical overviews of twentieth century theatre, analyses of specific productions and individuals, and consideration of the intercultural nature of modern Japanese theatre. Also included is a new translation of a 'Superkyogen' play.

KURRI Progress Report Nov 12 2020

Die Kleinepik des Strickers Mar 17 2021

Merkantiles Erzählen – Von Kauf und Verkauf in mittelhochdeutscher Literatur Jul 21 2021 Die Arbeit widmet sich der Frage, wie eine Beschreibung von Marktszenen in vormoderner Literatur zu leisten ist, ohne diese im Spiegel moderner wirtschaftswissenschaftlicher Grundannahmen zu verallgemeinern. Der Begriff der Wirtschaft wird daher weitestgehend vermieden, zugunsten der begrifflichen Schärfung des ‚Merkantilen' als konkret fassbare Sphäre spezifischer Praktiken. In Kapiteln zu einzelnen Lexem wird die semantische Einbettung und Metaphorizität solch merkantil

relevanter Begriffe erörtert, um in den Analysen von acht mittelhochdeutschen Einzeltexten (Der Marktdieb, Die zwei Märkte, Der Krämer, Der Pfaffe Amis, Josefsgeschichte in der Weltchronik des Johans von Wien, Flore und Blanscheflur, Der guote Gêrhart, Die Rittertreue (Der dankbare Wiedergänger) das Moment des Merkantilen besonders in seiner narratologischen, aber auch in seiner metaphorischen Dimension herauszuarbeiten. Die Ergebnisse der Arbeit zielen somit auf das allgemeinere Phänomen, wie eine latent teleologische Beschreibungssprache, in diesem Fall die der Wirtschaftsgeschichte, semantisch und praxeologisch dekonstruiert werden kann, um ein Beschreibungsinstrumentarium zu liefern, dass merkantile Erzählszenen in ihrer Eigenlogik abzubilden vermag.

Elastic and Inelastic Scanning Tunneling Spectroscopy on Iron-Based Superconductors Jan 27 2022

Materials Aspect of Thermoelectricity Jun 27 2019 In recent years, novel families of materials have been discovered and significant improvements in classical thermoelectric materials have been made. Thermoelectric generators are now being used to harvest industrial heat waste and convert it into electricity. This is being utilized in communal incinerators, large smelters, and cement plants. Leading car and truck companies are developing thermoelectric power generators to collect heat from the exhaust systems of gasoline and diesel engines. Additionally, thermoelectric coolers are being used in a variety of picnic boxes, vessels used to transport transplant organs, and in air-conditioned seats of mid-size cars. Consisting of twenty-one chapters written by top researchers in the field, this book explores the major advancements being made in the material aspects of thermoelectricity and provides a critical assessment in regards to the broadening of application opportunities for thermoelectric energy conversion.

Arbitrium Jul 01 2022

Microstructure and Properties of High-Temperature Superconductors Dec 26 2021 The main features of high-temperature superconductors (HTSC) that define their properties are intrinsic brittleness of oxide cuprates, the layered anisotropic structure and the supershort coherence length. Taking into account these features, this treatise presents research into HTSC microstructure and properties, and also explores the possibilities of optimization of the preparation techniques and superconducting compositions. The "composition-technique-experiment-theory-model," employed here, assumes considerable HTSC defectiveness and structure heterogeneity and helps to draw a comprehensive picture of modern representations of the microstructure, strength and the related structure-sensitive properties of the materials considered. Special attention is devoted to the Bi-Sr-Ca-Cu-O and Y-Ba-Cu-O families, which currently offer the most promising applications. Including a great number of illustrations and references, this monograph addresses students, post-graduate students and specialists, taking part in the development, preparation and research of new materials. The new edition had been updated intensively, especially experimental investigations and modeling conductive and elastic properties of HTC superconductors have been added.

Neonatal Malignant Disorders, An Issue of Clinics in Perinatology Jul 29 2019 In collaboration with Consulting Editor, Dr. Lucky Jain, Guest Editor Dr. Daniel Wechsler has assembled expert authors to provide a current update on the diagnosis and treatment of neonatal malignant disorders. Articles are specifically devoted to the following topics: Genetic Predisposition and Neonatal Cancer; Infant Leukemias; Neonatal Malignant Disorders: Brain Tumors; Retinoblastoma; Neonatal Malignant Disorders: Kidney Tumors; Neonatal Malignant Disorders: Liver Tumors; Neuroblastoma; Neonatal Malignant Disorders: Sarcoma; Neonatal Malignant Disorders: Germ Cell Tumors; Neonatal Histiocytoses; Lymphatic Malformations; and Long-Term Outcomes in Neonatal Cancer Survivors. Readers will come away with the information they need to improve outcomes in infants with neonatal malignant disorders.

High Temperature Superconductivity Jul 09 2020 What Is High Temperature Superconductivity High-temperature superconductors are operatively defined as materials that behave as superconductors at temperatures above 77 K, the boiling point of liquid nitrogen, one of the simplest coolants in

cryogenics. All materials currently known to conduct at ordinary pressures become superconducting at temperatures far below ambient, and therefore require cooling. The majority of high-temperature superconductors are ceramic materials. On the other hand, Metallic superconductors usually work below −200 °C: they are then called low-temperature superconductors. Metallic superconductors are also ordinary superconductors, since they were discovered and used before the high-temperature ones. How You Will Benefit (I) Insights, and validations about the following topics: Chapter 1: High-temperature superconductivity Chapter 2: Cooper pair Chapter 3: Flux pumping Chapter 4: Macroscopic quantum phenomena Chapter 5: Mixed conductor Chapter 6: Pseudogap Chapter 7: SQUID (II) Answering the public top questions about high temperature superconductivity. (III) Real world examples for the usage of high temperature superconductivity in many fields. (IV) 17 appendices to explain, briefly, 266 emerging technologies in each industry to have 360-degree full understanding of high temperature superconductivity' technologies. Who This Book Is For Professionals, undergraduate and graduate students, enthusiasts, hobbyists, and those who want to go beyond basic knowledge or information for any kind of high temperature superconductivity.

Handbook on the Physics and Chemistry of Rare Earths Apr 17 2021 Handbook on the Physics and Chemistry of Rare Earths: Including Actinides, Volume 51, is a continuous series of books covering all aspects of rare earth science, including chemistry, life sciences, materials science and physics. This latest release includes chapters on the Effect of Pressure on the Interplay Between Orbital and Magnetic Ordering, Kondo Effect, Valence Fluctuation, and Superconductivity in Rare-Earth Compounds and a section on Rare-Earth: Doped Waveguide Amplifiers and Lasers. The book's main emphasis is on rare earth elements [Sc, Y, and the lanthanides (La through Lu], but whenever relevant, information is also included on the closely related actinide elements. Individual chapters in the ongoing series consist of comprehensive, broad, up-to-date, critical reviews written by highly experienced, invited experts. The series, which was started in 1978 by Professor Karl A. Gschneidner Jr., combines, and integrates, both the fundamentals and applications of these elements with two published volumes each year. Presents up-to-date overviews and new developments in the field of rare earths, covering both their physics and chemistry Contains Individual chapters that are comprehensive and broad, with critical reviews Provides contributions from highly experienced, invited experts

100 Years of Superconductivity May 31 2022 Even a hundred years after its discovery, superconductivity continues to bring us new surprises, from superconducting magnets used in MRI to quantum detectors in electronics. 100 Years of Superconductivity presents a comprehensive collection of topics on nearly all the subdisciplines of superconductivity. Tracing the historical developments in superconductivity, the book includes contributions from many pioneers who are responsible for important steps forward in the field. The text first discusses interesting stories of the discovery and gradual progress of theory and experimentation. Emphasizing key developments in the early 1950s and 1960s, the book looks at how superconductivity started to permeate society and how most of today’s applications are based on the innovations of those years. It also explores the genuine revolution that occurred with the discovery of high temperature superconductors, leading to emerging applications in power storage and fusion reactors. Superconductivity has become a vast field and this full-color book shows how far it has come in the past 100 years. Along with reviewing significant research and experiments, leading scientists share their insight and experiences working in this exciting and evolving area.

Superconducting State Oct 31 2019 'Superconducting State' provides a very detailed theoretical treatment of the key mechanisms of superconductivity, including the current state of the art (phonons, magnons, and plasmons). A very complete description is given of the electron-phonon mechanism responsible for superconductivity in the majority of superconducting systems, and the history of its development, as well as a detailed description of the key experimental techniques used to study the superconducting state and determine the mechanisms. In addition, there are chapters describing the discovery and properties of the key superconducting compounds that are of the most interest for science, and

applications including a special chapter on the cuprate superconductors. It provides detailed treatments of some very novel aspects of superconductivity, including multiple bands (gaps), the "pseudogap" state, novel isotope effects beyond BCS, and induced superconductivity.
"Ein frölich gemüt zu machen in schweren zeiten -" Apr 29 2022 Betr. u.a. Sebastian Brant.
Der englische Eulenspiegel Apr 05 2020 The study investigates Eulenspiegel, the European bestseller of the Early Modern Age. The history of its dissemination in England shows how strongly book printing there in the 16th century was predominated by German printers and sellers and demonstrates how a ?German' figure was received in England. The study presents that period's fascination with Eulenspiegel using a number of examples of translations showing their interconnection with the English version. Here for the first time, an edition translated into German and including variants reflects the entire English tradition of the 16th century.
Three Phase Partitioning Mar 29 2022 Three Phase Partitioning: Applications in Separation and Purification of Biological Molecules and Natural Products presents applications in diverse areas of both chemical technology and biotechnology. This book serves as a single resource for learning about both the economical, facile and scalable processes, along with their potential for applications in the separation and purification of materials and compounds across the entire spectra of chemical and biological nature. The book begins by explaining the origins and fundamentals of TPP and continues with chapters on related applications, ranging from the purification of parasite recombinant proteases to oil extraction from oilseeds and oleaginous microbes, and more. Written by researchers who have been pioneers in developing and utilizing three phase partitioning Focuses on applications, with chapters detailing relevance to a wide variety of areas and numerous practical examples Designed to give laboratory workers the information needed to undertake the challenge of designing successful three-phase partitioning protocols
High Temperature Superconducting Magnetic Levitation May 07 2020 The authors begin this book with a systematic overview of superconductivity, superconducting materials, magnetic levitation, and superconducting magnetic levitation - the prerequisites to understand the latter part of the book - that forms a solid foundation for further study in High Temperature Superconducting Magnetic Levitation (HTS Maglev). This book presents our research progress on HTS Maglev at Applied Superconductivity Laboratory (ASCLab) of Southwest Jiaotong University (SWJTU), China, with an emphasis on the findings that led to the world's first manned HTS Maglev test vehicle "Century". The book provides a detailed description on our previous work at ASCLab including the designing of the HTS Maglev test and measurement method as well as the apparatus, building "Century", developing the HTS Maglev numerical simulation system, and making new progress on HTS Maglev. The final parts of this book discuss research and prototyping efforts at ASCLab in several adjacent fi elds including HTS Maglev bearing, Flywheel Energy Storage System (FESS) and HTS maglev launch technology. We hope this book becomes a valuable source for researchers and engineers working in the fascinating field of HTS Maglev science and engineering. Contents Fundamentals of superconductivity Superconducting materials Magnetic levitation Superconducting magnetic levitation HTS Maglev experimental methods and set-up First manned HTS Maglev vehicle in the world Numerical simulations of HTS Maglev New progress of HTS Maglev vehicle HTS Maglev bearing and flywheel energy storage system HTS Maglev launch technology
Shrinking Japan and Regional Variations: Along the Hokurikudo and the Tosando II Nov 05 2022 This book provides an insightful sociological study of the shrinking Japanese population through a regional variation perspective as it varies significantly by municipality, even within the same prefecture. Using demographic data on municipal levels, the book identifies the power unique to each municipality, which can mobilize a shrinking but sustainable Japan. The study identifies the principal explanatory factors based on the small area data of e-Stat through GPS statistical software tools such as G-census and EvaCva within a historical perspective. The theoretical framework of this study, i.e., the reason for regional variations in Japan, is the Goki-Shichido (Five Home Provinces and Seven Circuits of Ancient Japan). This historical knowledge helps in understanding the significance of

the regional cultural heritage that remains in each municipality today. The book pays special attention to municipal variations within the same prefecture, utilizing a completely unique approach, unlike those that have been pursued by other researchers. This book studies three present-day prefectures for detailed analyses based on the Goki-Shichido framework for impacts of regional variations of population decline in Japan. They are Niigata Prefecture, made up of the formerly named Echigo and Sado provinces; Ishikawa Prefecture, formed by the ancient Kaga and Noto provinces; Fukui Prefecture, based on the earlier Wakasa and Echizen provinces of the Hokurikudo; Nagano Prefecture, still called Shinano province today and commonly divided into four areas and ten regions; and Gifu Prefecture, composed of the ancient Mino and Hida provinces of the Tosando as examples of the impact of municipal power on regional variations of shrinking Japan. However, due to the limitation of the number of pages set forth for Springer Briefs in Population Studies: Population Studies of Japan, for which the current publication is a part, it has become necessary to divide the book into two volumes, namely Volume I and Volume II. Because of this limitation, the current Volume II consisted of four chapters. They are Chapter 1: Fukui Prefecture in the Hokurikudo; Chapter 2: Nagano Prefecture in the Tosando; Chapter 3: Gifu Prefecture in the Tosando, and Chapter 4: Epilogue: The Future of Shrinking Japan. The remaining two prefectures, i.e., Niigata and Ishikawa prefectures in the Hokurikudo area have been discussed in the Volume I of this book. By presenting unique analyses of regional variations on small municipal levels, with demographic variables, social indicators, and historical identities, this book offers suggestions for effective regional policies to revitalize a shrinking Japan to a sustainable one.

Cumulated Index Medicus Sep 10 2020

Yeast Biotechnology Aug 22 2021 Biotechnology Biotechnology is is now now established established as as a a major major area area of of technology, technology, concerned concerned with with the' the' application application of of biological biological organisms, organisms, systems systems or or processes processes to to manufac turing turing or or service service industries'. industries'. Although Although the the exploitation exploitation of of organisms organisms by by man man is is not not new, new, many many of of the the techniques techniques which which are are stimulating stimulating the the rapid rapid advances advances in in biotechnology biotechnology have have developed developed from from recent recent scientific scientific discoveries. discoveries. Throughout Throughout history history man man has, has, knowingly knowingly or or not, not, been been exploiting exploiting yeast yeast in in the the production production of of alcoholic alcoholic beverages beverages and and bread, bread, and and these these processes processes still still represent represent major major biotechnological biotechnological industries. industries. The The brewer's brewer's and and baker's baker's yeast yeast Sac charomyces charomyces cerevisiae cerevisiae is, is, however, however, also also a a favoured favoured organism organism for for the the production production of of many many new new biotechnological biotechnological products. products.

Layered Superconductors Sep 30 2019 This book provides a comparison of the different chemical structures, normal state properties, and simplest superconducting properties of all known classes of layered superconductors. It introduces the three phenomenological models used to describe such systems, and will guide young researchers hoping to produce a room-temperature superconductor.

Candida Albicans Jun 07 2020 Candida, which was discovered more than a century ago as a causative organism of oral thrush, is now thought to potentially infect almost every tissue of the human body. Although we still do not have a safe anti-candida drug, the growing pace of progess of research on Candida albicans holds promise that a breakthrough is imminent. Though many monographs and articles on candida and candidoses have appeared in recent years, they mostly cover the clinical aspects. This particular text, however, explains the more basic features of candida including the molecular genetics, molecular biology and immunology of the cell wall, the molecular basis of morphogenesis and the structure and

function of the plasma membrane. The role of anti-candida drugs and their mechanism of action are also discussed.

Iron-Based Superconductivity Aug 02 2022 This volume presents an in-depth review of experimental and theoretical studies on the newly discovered Fe-based superconductors. Following the Introduction, which places iron-based superconductors in the context of other unconventional superconductors, the book is divided into three sections covering sample growth, experimental characterization, and theoretical understanding. To understand the complex structure-property relationships of these materials, results from a wide range of experimental techniques and theoretical approaches are described that probe the electronic and magnetic properties and offer insight into either itinerant or localized electronic states. The extensive reference lists provide a bridge to further reading. Iron-Based Superconductivity is essential reading for advanced undergraduate and graduate students as well as researchers active in the fields of condensed matter physics and materials science in general, particularly those with an interest in correlated metals, frustrated spin systems, superconductivity, and competing orders.

Iron-Based Superconducting Thin Films Feb 13 2021 This book provides a modern introduction to the growth, characterization, and physics of iron-based superconducting thin films. Iron pnictide and iron chalcogenide compounds have become intensively studied key materials in condensed matter physics due to their potential for high temperature superconductivity. With maximum critical temperatures of around 60 K, the new superconductors rank first after the celebrated cuprates, and the latest announcements on ultrathin films promise even more. Thin film synthesis of these superconductors began in 2008 immediately after their discovery, and this growing research area has seen remarkable progress up to the present day, especially with regard to the iron chalcogenides FeSe and FeSe1-xTex, the iron pnictide BaFe2-xCoxAs2 and iron-oxyarsenides. This essential volume provides comprehensive, state-of-the-art coverage of iron-based superconducting thin films in topical chapters with detailed information on thin film synthesis and growth, analytical film characterization, interfaces, and various aspects on physics and materials properties. Current efforts towards technological applications and functional films are outlined and discussed. The development and latest results for monolayer FeSe films are also presented. This book serves as a key reference for students, lecturers, industry engineers, and academic researchers who would like to gain an overview of this complex and growing research area.

High-Tc Superconductors Based on FeAs Compounds Feb 25 2022 Physical properties and models of electronic structure are analyzed for a new class of high-TC superconductors which belong to iron-based layered compounds. Despite their variable chemical composition and differences in the crystal structure, these compounds possess similar physical characteristics, due to electron carriers in the FeAs layers and the interaction of these carriers with fluctuations of the magnetic order. A tremendous interest towards these materials is explained by the prospects of their practical use. In this monograph, a full picture of the formation of physical properties of these materials, in the context of existing theory models and electron structure studies, is given. The book is aimed at a broad circle of readers: physicists who study electronic properties of the FeAs compounds, chemists who synthesize them and specialists in the field of electronic structure calculations in solids. It is helpful not only to researchers active in the fields of superconductivity and magnetism, but also for graduate and postgraduate students and all those who would like to get acquaintained with this vivid area of the materials science.

Photonic and Electronic Properties of Fluoride Materials Dec 14 2020 Photonic and Electronic Properties of Fluoride Materials: Progress in Fluorine Science, the first volume in this new Elsevier series, provides an overview of the important optical, magnetic, and non-linear properties of fluoride materials. Beginning with a brief review of relevant synthesis methods from single crystals to nanopowders, this volume offers valuable insight for inorganic chemistry and materials science researchers. Edited and written by leaders in the field, this book explores the practical aspects of working with these materials, presenting a large number of examples from inorganic fluorides in which the type of bonding occurring between fluorine and

transition metals (either d- or 4f-series) give rise to peculiar properties in many fundamental and applicative domains. This one-of-a-kind resource also includes several chapters covering functional organic fluorides used in nano-electronics, in particular in liquid crystal devices, in organic light-emitting diodes, or in organic dyes for sensitized solar cells. The book describes major advances and breakthroughs achieved by the use of fluoride materials in important domains such as superconductivity, luminescence, laser properties, multiferroism, transport properties, and more recently, in fluoro-perovskite for dye-sensitized solar cells and inorganic fluoride materials for NLO, and supports future development in these varied and key areas. The book is edited by Alain Tressaud, past chair and founder of the CNRS French Fluorine Network. Each book in the collection includes the work of highly-respected volume editors and contributors from both academia and industry to bring valuable and varied content to this active field. Provides unique coverage of the physical properties of fluoride materials for chemists and material scientists Begins with a brief review of relevant synthesis methods from single crystals to nanopowders Includes valuable information about functional organic fluorides used in nano-electronics, in particular in liquid crystal devices, in organic light-emitting diodes, or in organic dyes for sensitized solar cells

Superconductor Oct 04 2022 This book contains a collection of works intended to study theoretical and experimental aspects of superconductivity. Here you will find interesting reports on low-Tc superconductors (materials with Tc 30 K), as well as a great number of researches on high-Tc superconductors (materials with Tc 30 K). Certainly this book will be useful to encourage further experimental and theoretical researches in superconducting materials.

"*Höfisch*" *im Mittelhochdeutschen* Aug 29 2019 'Höfisch' ist für die Kultur des Mittelalters ein Schlüsselwort. In den literarischen Quellen trifft man auf unzählige höfische Männer und Frauen, die höfisch handeln und sprechen, sich höfisch fortbewegen und sich von ihrer höfischen Gesinnung leiten lassen. Doch was genau bedeutet das Epitheton 'höfisch'? Diese Untersuchung entwickelt erstmals auf der Basis eines transparenten, umfassenden Belegcorpus, das auf der Basis aller verfügbaren deutschsprachigen Texte vor 1300 erstellt wurde, Verwendungsprofile der Adjektivderivate zu 'Hof' und ihrer sekundären Ableitungen. Hierzu wird im ersten Teil der Untersuchung jeder Beleg in seinem Gebrauchskontext präsentiert, während im zweiten Teil die signifikanten Kollokationen und Verwendungsweisen der jeweiligen Verwortung herausgearbeitet werden.

Hochtemperatur-Supraleitung Jun 19 2021 Was ist Hochtemperatur-Supraleitung Hochtemperatur-Supraleiter werden operativ als Materialien definiert, die sich bei Temperaturen über 77 K, dem Siedepunkt von flüssigem Stickstoff, einem der einfachsten Kühlmittel in der Kryotechnik, wie Supraleiter verhalten. Alle Materialien, von denen derzeit bekannt ist, dass sie bei normalen Drücken leiten, werden bei Temperaturen weit unterhalb der Umgebungstemperatur supraleitend und müssen daher gekühlt werden. Die Mehrzahl der Hochtemperatur-Supraleiter sind keramische Materialien. Metallische Supraleiter hingegen arbeiten normalerweise unter minus 200 Grad Celsius: Sie werden dann Niedertemperatur-Supraleiter genannt. Metallische Supraleiter sind auch gewöhnliche Supraleiter, da sie vor den Hochtemperatur-Supraleitern entdeckt und verwendet wurden. So profitieren Sie (I) Einblicke und Validierungen zu den folgenden Themen: Kapitel 1: Hochtemperatur-Supraleitung Kapitel 2: Cooper-Paar Kapitel 3: Flusspumpen Kapitel 4: Makroskopische Quantenphänomene Kapitel 5: Gemischter Dirigent Kapitel 6: Pseudogap Kapitel 7: Tintenfisch (II) Beantwortung der häufigsten öffentlichen Fragen zur Hochtemperatur-Supraleitung. (III) Beispiele aus der Praxis für den Einsatz von Hochtemperatur-Supraleitung in vielen Bereichen. (IV) 17 Anhänge zur kurzen Erläuterung von 266 neuen Technologien in jeder Branche, um ein umfassendes 360-Grad-Verständnis der Hochtemperatur-Supraleitungstechnologien zu erhalten. Für wen dieses Buch ist Profis, Studenten und Doktoranden, Enthusiasten, Bastler und diejenigen, die über grundlegende Kenntnisse oder Informationen für jede Art von Hochtemperatur-Supraleitung hinausgehen möchten.

Iron-based Superconductors Aug 10 2020 From fundamental physics point of view, iron-based superconductors have properties that are more

amenable to band structural calculations. This book reviews the progress made in this fascinating field. With contributions from leading experts, the book provides a guide to understanding materials, physical properties, and superconductivity mechanism aspects, and is important for students and beginners to have an overall view of the recent progress in this active field.

Historische Narratologie, mediävistische Perspektiven Mar 05 2020 Die Narratologie als Zweig der Literaturwissenschaft, der sich mit Erz hlungen und ihren Verfahren besch ftigt, hat in den letzten zwei Jahrzehnten einen veritablen Boom erlebt. Dabei wurde eindifferenziertes Instrumentarium zur Beschreibung narrativer Verfahren und Formen entwickelt. Anders aber als die Intertextualit tstheorie, die urspr nglich in der Auseinandersetzung mit einem sp tmittelalterlichen Text entwickelt wurde, hat die Narratologie ihre Theoriebildung mit wenigen Ausnahmen an der neueren und neuesten Literatur betrieben. Aus medi vistischer Sicht stellt sich daher die Frage, ob und wie dieses Instrumentarium auch auf ltere Texte zu bertragen ist. Wenn es eine Modernit tsschwelle in der Literatur gibt, dann k nnte die Geltung deskriptiver Begriffe an ihr halt machen, und eine Verwendung dieser Begriffe ber die Schwelle hinweg k nnte die blo e Illusion erzeugen, dass es vorher schon etwas gab, was den modernen Ph nomenen gleich kommt. Die Beitr ger des vorliegenden Bandes treten aus germanistischer, romanistischer und anglistischer Perspektive in einen Dialog. Sie bieten ein breites Spektrum an Antworten, das einen berblick ber zentrale Probleme einer historischen Narratologie bietet.

Deutschsprachige Literatur des Mittelalters May 19 2021 Eine Auswahl aus dem 10-bändigen Verfasserlexikon, dem umfassenden Nachschlagewerk über das volkssprachliche und lateinische Schrifttum des Mittelalters im deutschsprachigen Raum, liegt jetzt in der einbändigen Studienausgabe Deutschsprachige Literatur des Mittelalters vor. Dafür wurden die Bereiche bevorzugt, die in der Praxis des akademischen Unterrichts am ehesten vorkommen: neben den ganz berühmten Werken und Autoren vor allem das 9. Jh., die Zeit von 1150 bis 1250, die Mystik des 13. und 14. Jahrhunderts sowie Kleinepik und Fastnachtspiel. Darüber hinaus sind einige niederdeutsche und ein altjiddischer Text enthalten. Wichtige Vorzüge des Gesamtwerks wie die lexikalische Anordnung monographischer Artikel und die Darstellung der Überlieferung kommen auch in dieser Zusammenstellung zur Geltung. Mit der Studienausgabe erhält ein breiter Leserkreis - insbesondere von Studierenden - erstmals die Möglichkeit, sich nicht nur umfassend über die so genannte schöne Literatur zu informieren, sondern auch einiges aus Bereichen wie Erbauungsliteratur oder Sachprosa kennen zu lernen.

Superconductivity Sep 03 2022 This book presents the basics of superconductivity and applications of superconducting magnets. It explains the phenomenon of superconductivity, describes theories of superconductivity, and discusses type II and high-temperature cuprate superconductors. The main focus of the book is the application of superconducting magnets in accelerators, fusion reactors and other advanced applications such as nuclear magnetic resonance (NMR), magnetic resonance imaging (MRI), high-gradient magnetic separation (HGMS), and superconducting magnetic energy storage (SMES). This new and significantly extended second edition covers the state of the art in the development of novel superconductors for advanced magnet applications, as well as the production of practical superconducting wires, tapes, and ultra high current cables used for high-field magnets. It includes two new chapters each devoted to MgB2 and Fe-based superconductors, and discusses the recently developed and world record-setting 45.5-Tesla magnetic field generated by a combination of conventional and high-temperature cuprate superconducting magnets. In addition, it discusses the status and outlook of all current and future nuclear fusion reactors worldwide. The chapter on accelerators includes the ongoing efforts to build high luminosity LHC (HL-LHC), the high-energy 28 TeV LHC (HE-LHC), the future circular collider (FCC) at CERN, and the just launched electro-ion collider (EIC) at Brookhaven National Laboratory. The book is based on the long-standing experience of the author in studying superconducting materials, building magnets and delivering numerous lectures to research scholars and students. The book provides comprehensive and fundamental knowledge in the field of applied superconductivity, greatly benefiting researchers and graduate students wishing to

learn more about the various aspects of superconductivity and advanced magnet applications.
Autor und Autorschaft im Mittelalter Oct 12 2020 This volume assembles the findings of the 14th Anglo-German colloquium on German medieval literature. The 22 contributions all revolve around the subject of "Author and Authorship", a theme very much in the foreground of discussion in present-day medieval literary studies. Most of the articles are case studies and draw on texts from the whole gamut of German medieval literature to discuss such issues as the relation between performance, textuality and authorship, the functional status of author's names and author's pictures in manuscript traditions, a historically adequate concept of authorship, the various roles played by authors and the specific profiles these roles display in different genres.