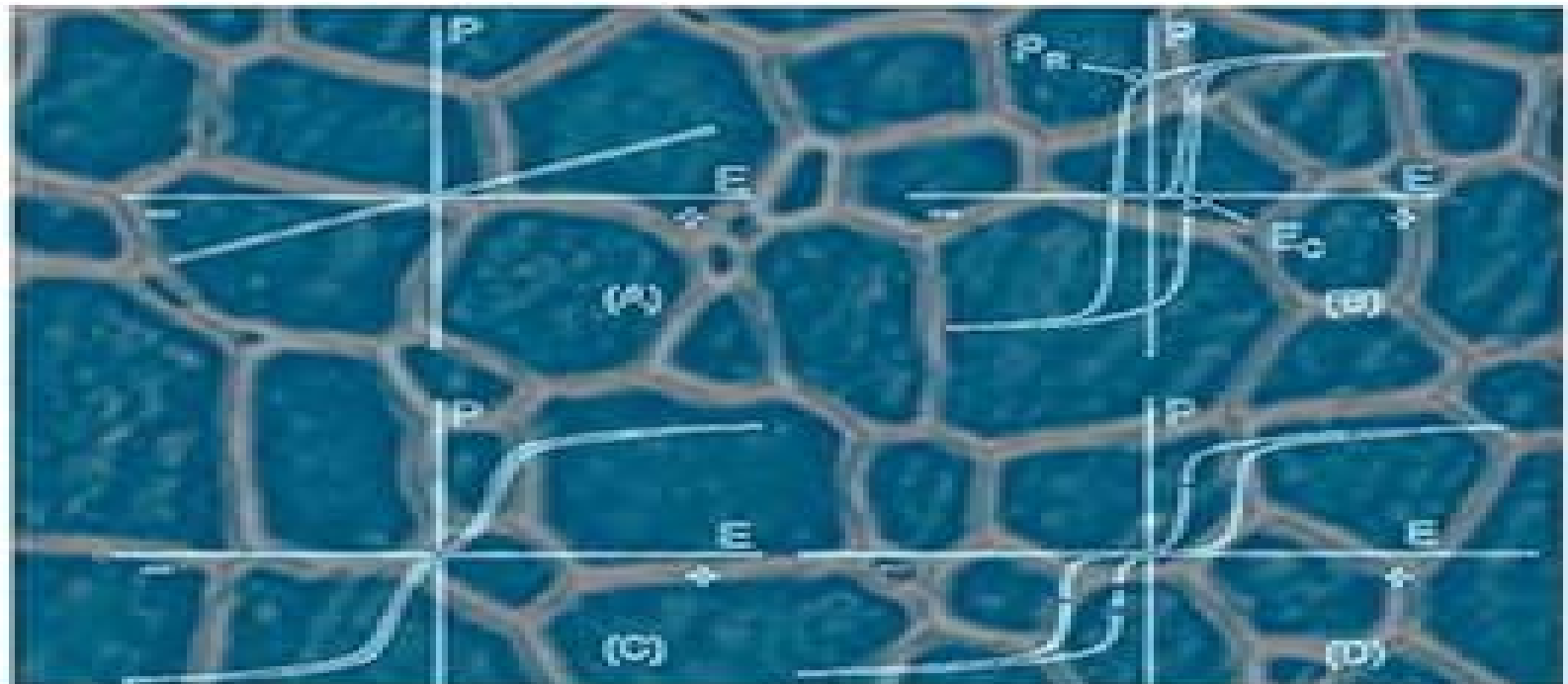


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Ferroelectricity

The Fundamentals Collection



Ferroelectricity The Fundamentals Collection

Lorena Pardo, Jesús Ricote



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Ferroelectricity Julio A. Gonzalo, Basilio Jiménez, 2005 This indispensable collection of seminal papers on ferroelectricity provides an overview over almost a hundred years of basic and applied research Containing historic contributions from renowned authors this book presents developments in an area of science that is still rapidly growing Although primarily aimed at scientists and academics involved in research this will also be of use to students as well as newcomers to the field

Ferroelectricity Julio A. Gonzalo, Basilio Jiménez, 2008-09-26 This indispensable collection of seminal papers on ferroelectricity provides an overview over almost a hundred years of basic and applied research Containing historic contributions from renowned authors this book presents developments in an area of science that is still rapidly growing Although primarily aimed at scientists and academics involved in research this will also be of use to students as well as newcomers to the field

Fundamentals of Piezoelectric Sensorics Jan Tichý, Jirí Erhart, Erwin Kittinger, Jana Prívratská, 2010-07-28 Presents the fundamental physics of piezoelectric sensors Only book with this scope Targeted to those engineers physicists and chemists who are involved in materials processing device design and manufacturing

Organic Ferroelectric Materials and Applications Kamal Asadi, 2021-10-27 Organic Ferroelectric Materials and Applications aims to bring an up to date account of the field with discussion of recent findings This book presents an interdisciplinary resource for scientists from both academia and industry on the science and applications of molecular organic piezo and ferroelectric materials The book addresses the fundamental science of ferroelectric polymers molecular crystals supramolecular networks and other key and emerging organic materials systems It touches on important processing and characterization methods and provides an overview of current and emerging applications of organic piezoelectrics and ferroelectrics for electronics sensors energy harvesting and biomedical technologies Organic Ferroelectric Materials and Applications will be of special interest to those in academia or industry working in materials science engineering chemistry and physics Provides an overview of key physical properties of the emerging piezoelectric and ferroelectric molecular and supramolecular systems Discusses best practices of processing patterning and characterization methods and techniques Addresses current and emerging applications for electronics materials development sensors energy harvesting and biomedical technologies

Ferroelectrics Indrani Coondoo, 2010-12-14 Ferroelectric materials exhibit a wide spectrum of functional properties including switchable polarization piezoelectricity high non linear optical activity pyroelectricity and non linear dielectric behaviour These properties are crucial for application in electronic devices such as sensors microactuators infrared detectors microwave phase filters and non volatile memories This unique combination of properties of ferroelectric materials has attracted researchers and engineers for a long time This book reviews a wide range of diverse topics related to the phenomenon of ferroelectricity in the bulk as well as thin film form and provides a forum for scientists engineers and students working in this field The present book containing 24 chapters is a result of contributions of experts from

international scientific community working in different aspects of ferroelectricity related to experimental and theoretical work aimed at the understanding of ferroelectricity and their utilization in devices It provides an up to date insightful coverage to the recent advances in the synthesis characterization functional properties and potential device applications in specialized areas

Ferroelectric Crystals for Photonic Applications Pietro Ferraro, Simonetta Grilli, Paolo De Natale, 2013-11-20 This book deals with the latest achievements in the field of ferroelectric domain engineering and characterization at micro and nano scale dimensions and periods The book collects the results obtained in the last years by world scientific leaders in the field thus providing a valid and unique overview of the state of the art and also a view to future applications of those engineered and used materials in the field of photonics The second edition covers the major aspects of ferroelectric domain engineering and combines basic research and latest updated applications such as challenging results by introducing either new as well as extended chapters on Photonics Crystals based on Lithium Niobate and Lithium Tantalate crystals generation visualization and controlling of THz radiation latest achievements on Optical Parametric Oscillators for application in precise spectroscopy Further more recent advancements in characterization by probe scanning microscopy and optical methods with device and technological orientation A state of the art report on periodically poled processes and their characterization methods are provided on different materials LiNbO₃ KTP furnishing update research on ferroelectric crystal by extending materials research and applications

Multifunctional Polycrystalline Ferroelectric Materials Lorena Pardo, Jesús Ricote, 2011-02-14 This book presents selected topics on processing and properties of ferroelectric materials that are currently the focus of attention in scientific and technical research Ferro piezoelectric ceramics are key materials in devices for many applications such as automotive healthcare and non destructive testing As they are polycrystalline non centrosymmetric materials their piezoelectricity is induced by the so called poling process This is based on the principle of polarization reversal by the action of an electric field that characterizes the ferroelectric materials This book was born with the aim of increasing the awareness of the multifunctionality of ferroelectric materials among different communities such as researchers electronic engineers end users and manufacturers working on and with ferro piezoelectric ceramic materials and devices which are based on them The initiative to write this book comes from a well established group of researchers at the Laboratories of Ferroelectric Materials Materials Science Institute of Madrid ICMN CSIC This group has been working in different areas concerning thin films and bulk ceramic materials since the mid 1980s It is a partner of the Network of Excellence on Multifunctional and Integrated Piezoelectric Devices MIND of the EC in which the European Institute of Piezoelectric Materials and Devices has its origin

Ferroelectric Perovskites for High-Speed Memory Taku Onishi, 2022-06-28 This book is intended for theoretical and experimental researchers who are interested in ferroelectrics and advanced memory After introducing readers to dielectric perovskites advanced memories and ferroelectric it explains quantum simulation Then using molecular orbital calculation results it explains the ferroelectric mechanism in perovskite

titanium oxides in concrete terms Lastly the book examines the materials designed for high performance ferroelectrics and discusses the future of high speed memory

Ferroic Materials-Based Technologies Inamuddin,Tariq Altalhi,Mohammad Abu Jafar Mazumder,2024-05-29 FERROIC MATERIALS BASED TECHNOLOGIES The book addresses the prospective relevant and original research developments in the ferroelectric magnetic and multiferroic fields Ferroic materials have sparked widespread attention because they represent a broad spectrum of elementary physics and are employed in a plethora of fields including flexible memory enormous energy harvesting storage spintronic functionalities spin caloritronics and a large range of other multi functional devices With the application of new ferroic materials strong room temperature ferroelectricity with high saturation polarization may be established in ferroelectric materials and magnetism with significant magnetization can be accomplished in magnetic materials Furthermore magnetoelectric interaction between ferroelectric and magnetic orderings is high in multiferroic materials which could enable a wide range of innovative devices Magnetic ferroelectric and multiferroic 2D materials with ultrathin characteristics above ambient temperature are often expected to enable future miniaturization of electronics beyond Moore s law for energy efficient nanodevices This book addresses the prospective relevant and original research developments in the ferroelectric magnetic and multiferroic fields Audience The book will interest materials scientists physicists and engineers working in ferroic and multiferroic materials

Piezoelectric Ceramic Resonators Jiří Erhart,Petr Půlpán,Martin Pustka,2016-10-24 This book helps the reader to understand the specific properties of piezoelectric ceramic resonators It provides their theoretical description by immitance and equivalent circuit method The nummerical modelling described is accompanied by examples of properties measured experimentally Piezoelectric ceramic transformers are also covered followed by a series of solved and unsolved problems prepared specially for students

Fundamentals of Electroceramics R. K. Pandey,2019-01-07 The first textbook to provide in depth treatment of electroceramics with emphasis on applications in microelectronics magneto electronics spintronics energy storage and harvesting sensors and detectors magnetics and in electro optics and acousto optics Electroceramics is a class of ceramic materials used primarily for their electrical properties This book covers the important topics relevant to this growing field and places great emphasis on devices and applications It provides sufficient background in theory and mathematics so that readers can gain insight into phenomena that are unique to electroceramics Each chapter has its own brief introduction with an explanation of how the said content impacts technology Multiple examples are provided to reinforce the content as well as numerous end of chapter problems for students to solve and learn The book also includes suggestions for advanced study and key words relevant to each chapter

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- 7 Elements of Semiconductor
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- 9

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Ferroelectric Materials and Ferroelectricity T. F. Connolly, 2013-11-11 This volume is a joint effort of the Research Materials Information Center RMIC of the Solid State Division at Oak Ridge National Laboratory and the Libraries and Information Systems Center at Bell Telephone Laboratories BTL Murray Hill N J The Research Materials Information Center has since 1963 been answering inquiries on the availability preparation and properties of inorganic solid state research materials The preparation of bibliographies has been essential to this function and the interest in ferroelectrics led to the compilation of the journal and report literature on that subject The 1962 book Ferroelectric Crystals by Jona and Shirane was taken as a cutoff point and all papers through mid 1969 received by the Center have been included The Libraries and Information Systems Center of BTL has over a period of years developed a proprietary package of computer programs called BELDEX which formats and generates indexes to bibliographic material This group therefore undertook to process RMIC's ferroelectric references by BELDEX so that both laboratories could have the benefit of an indexed basic bibliography in this important research area

Atomic-Scale Electronics Beyond CMOS Mircea Dragoman, Daniela Dragoman, 2020-11-16 This book explores emerging topics in atomic and nano scale electronics after the era of Moore's Law covering both the physical principles behind and technological implementations for many devices that are now expected to become key elements of the future of nanoelectronics beyond traditional complementary metal oxide semiconductors CMOS Moore's law is not a physical law itself but rather a visionary prediction that has worked well for more than 50 years but is rapidly coming to its end as the gate length of CMOS transistors approaches the length scale of only a few atoms Thus the key question here is What is the future for nanoelectronics beyond CMOS The possible answers are found in this book Introducing novel quantum devices such as atomic scale electronic devices ballistic devices memristors superconducting devices this book also presents the reader with the physical principles underlying new ways of computing as well as their practical implementation Topics such as quantum computing neuromorphic computing are highlighted here as some of the most promising candidates for ushering in a new era of atomic scale electronics beyond

CMOS Formation of Ferroelectricity in Hafnium Oxide Based Thin Films Tony Schenk, 2017-03-15 In 2011 B. S. et al reported the unexpected discovery of ferroelectric properties in hafnia based thin films which has since initiated many further studies and revitalized research on the topic of ferroelectric memories. In spite of many efforts the unveiling of the fundamentals behind this surprising discovery has proven rather challenging. In this work the originally claimed Pca21 phase is experimentally proven to be the root of the ferroelectric properties and the nature of this ferroelectricity is classified in the frame of existing concepts of ferroelectric materials. Parameters to stabilize this polar phase are examined from a theoretical and fabrication point of view. With these very basic questions addressed the application relevant electric field cycling behavior is studied. The results of first order reversal curves impedance spectroscopy scanning transmission electron microscopy and piezoresponse force microscopy significantly advance the understanding of structural mechanisms underlying wake up fatigue and the novel phenomenon of split up merging of transient current peaks. The impact of field cycling behavior on applications like ferroelectric memories is highlighted and routes to optimize it are derived. These findings help to pave the road for a successful commercialization of hafnia based ferroelectrics. *Multifunctional Ferroelectric Materials* Dipti Ranjan Sahu, 2021-09-08 Ferroelectricity is a well known phenomenon commonly used in scientific and industrial communities. Ferroelectric materials are the building blocks of different devices and technological innovations. This book presents an overview of the basic phenomenon of ferroelectricity and different ferroelectrics and ferroelectric devices including their theoretical study synthesis characterization and application. Chapters cover such topics as the basics of ferroelectricity perovskite ferroelectrics and relaxor ferroelectrics piezoelectricity and more.

Multicomponent and Multilayered Thin Films for Advanced Microtechnologies: Techniques, Fundamentals and Devices O. Auciello, Jürgen Engemann, 2012-12-06 The synthesis of multicomponent multilayered superconducting conducting semiconducting and insulating thin films has become the subject of an intensive worldwide interdisciplinary research effort. The development of deposition characterization techniques and the science and technology related to the synthesis of these films are critical for the successful evolution of this interdisciplinary field of research and the implementation of the new materials in a whole new generation of advanced microdevices. This book contains the lectures and contributed papers on various scientific and technological aspects of multicomponent and multilayered thin films presented at a NATO ASI. Compared to other recent books on thin films the distinctive character of this book is the interdisciplinary treatment of the various fields of research related to the different thin film materials mentioned above. The wide range of topics discussed in this book include vacuum deposition techniques synthesis processing characterization and devices of multicomponent multilayered oxide high temperature superconducting ferroelectric electro optic optical metallic silicide and compound semiconductor thin films. The book presents an unusual interdisciplinary exchange of ideas between researchers with cross disciplinary backgrounds and it will be useful to established investigators as well as postdoctoral and

graduate students **Magnetic, Ferroelectric, and Multiferroic Metal Oxides** Biljana Stojanovic, 2018-01-02 Magnetic Ferroelectric and Multiferroic Metal Oxides covers the fundamental and theoretical aspects of ferroics and magnetoelectrics their properties and important technological applications serving as the most comprehensive up to date reference on the subject Organized in four parts Dr Biljana Stojanovic leads expert contributors in providing the context to understand the material Part I Introduction the theoretical and practical aspects of ferroelectrics Part II Ferroelectrics From Theory Structure and Preparation to Application magnetic metal oxides Part III Magnetic Oxides Ferromagnetics Antiferromagnetics and Ferrimagnetics multiferroics Part IV Multiferroic Metal Oxides and future directions in research and application Part V Future of Metal Oxide Ferroics and Multiferroics As ferroelectric materials are used to make capacitors with high dielectric constant transducers and actuators and in sensors reed heads and memories based on giant magnetoresistive effects this book will provide an ideal source for the most updated information Addresses ferroelectrics ferromagnetics and multiferroelectrics providing a one stop reference for researchers Provides fundamental theory and relevant important technological applications Highlights their use in capacitors with high dielectric constant transducers and actuators and in sensors reed heads and memories based on giant magnetoresistive effects **Ferroelectric Materials for Energy Applications** Haitao Huang, James F. Scott, 2019-01-04 Provides a comprehensive overview of the emerging applications of ferroelectric materials in energy harvesting and storage Conventional ferroelectric materials are normally used in sensors and actuators memory devices and field effect transistors etc Recent progress in this area showed that ferroelectric materials can harvest energy from multiple sources including mechanical energy thermal fluctuations and light This book gives a complete summary of the novel energy related applications of ferroelectric materials and reviews both the recent advances as well as the future perspectives in this field Beginning with the fundamentals of ferroelectric materials Ferroelectric Materials for Energy Applications offers in depth chapter coverage of piezoelectric energy generation ferroelectric photovoltaics organic inorganic hybrid perovskites for solar energy conversion ferroelectric ceramics and thin films in electric energy storage ferroelectric polymer composites in electric energy storage pyroelectric energy harvesting ferroelectrics in electrocaloric cooling ferroelectric in photocatalysis and first principles calculations on ferroelectrics for energy applications Covers a highly application oriented subject with great potential for energy conversion and storage applications Focused toward a large interdisciplinary group consisting of material scientists solid state physicists engineering scientists and industrial researchers Edited by the father of integrated ferroelectrics Ferroelectric Materials for Energy Applications is an excellent book for researchers working on ferroelectric materials and energy materials as well as engineers looking to broaden their view of the field Ferroelectrics and Their Applications Husein Irzaman, Renan Prasta Jenie, 2018-10-03 Ferroelectricity is a symptom of inevitable electrical polarization changes in materials without external electric field interference Ferroelectricity is a phenomenon exhibited by crystals with a spontaneous polarization and

hysteresis effects associated with dielectric changes when an electric field is given Our fascination with ferroelectricity is in recognition of a beautiful article by Itskovsky in which he explains the kinetics of a ferroelectric phase transition in a thin ferroelectric layer film We have been researching ferroelectric materials since 2001 There are several materials known for their ferroelectric properties Barium titanate and barium strontium titanate are the most well known Several others include tantalum oxide lead zirconium titanate gallium nitride lithium tantalate aluminium copper oxide and lithium niobate There is still a blue ocean of ferroelectric applications yet to be expounded It is and hopefully always will be a bright future

Ferroelectric Random Access Memories Hiroshi Ishiwara, Masanori Okuyama, Yoshihiro Arimoto, 2004-04-16 The book consists of 5 parts 1 ferroelectric thin films 2 deposition and characterization methods 3 fabrication process and circuit design 4 advanced type memories and 5 applications and future prospects each part is further divided into several chapters Because of the wide range of topics discussed each chapter in this book was written by one of the best authors knowing the specific topic very well

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