

Advanced Dielectric, Piezoelectric and Ferroelectric Thin Films

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*Proceedings of the 106th Annual Meeting
of The American Ceramic Society,
Indianapolis, Indiana, USA (2004)*

Ferroelectric Films Ceramic Transactions Volume 25

Annelies Wilder-Smith



Ferroelectric Films Ceramic Transactions Volume 25:

Fatigue in Ferroelectric Ceramics and Related Issues Doru Constantin Lupascu, 2013-11-11 A major barrier to the introduction of ferroelectric devices into mass markets remains their limited reliability due to fatigue The underlying physical and chemical mechanisms of this material fatigue phenomenon are extremely complex and the relevant influences range from single point defects to macroscopic boundary conditions This book summarizes the different aspects of fatigue in ferroelectrics It is primarily concerned with bulk material effects Mechanical electrical and physico chemical processes are described reference data are given for different loading regimes and boundary conditions and various fatigue models are compared The monograph also demonstrates how the results of acoustic emission and of microscopy studies reveal the microscopic origins of fatigue in ferroelectric devices

Science and Technology of Integrated Ferroelectrics Carlos Pazde-Araujo, Ramamoorthy Ramesh, George W Taylor, 2001-01-11 The aim of this book is to present in one volume some of the most significant developments that have taken place in the field of integrated ferroelectrics during the last decade of the twentieth century The book begins with a comprehensive introduction to integrated ferroelectrics and follows with fifty three papers selected by Carlos Paz de Araujo Orlando Auciello Ramamoorthy Ramesh and George W Taylor These fifty three papers were selected from more than one thousand papers published over the last eleven years in the proceedings of the International Symposia on Integrated Ferroelectrics ISIF These papers were chosen on the basis that they give a broad view of the advances that have been made and indicate the future direction of research and technological development Readers who wish for a more in depth treatment of the subject are encouraged to refer to volumes 1 to 27 of Integrated Ferroelectrics the main publication vehicle for papers in this field

Handbook on the Physics and Chemistry of Rare Earths, 2006-12-07 This volume of the Handbook on the Physics and Chemistry of Rare Earth begins with a Dedication to late Professor LeRoy Eyring who had been a committed co editor of the first 32 volumes of this series This is followed by four chapters the first two pertaining to solid state physics and materials science while the last two chapters describe organic and inorganic reactions mediated by tetravalent cerium based oxidants and by divalent samarium based reductants Chapter 227 is devoted to the description of the crystal chemistry and physical properties of rare earth bismuthides a class of compounds showing large similarities with the rare earth antimonides previously reviewed in volume 33 of this series The fascinating optical and electric properties of rare earth hydride films displaying a switchable mirror effect as a function of hydrogen pressure i e from a shiny metallic state to a transparent insulating film with increasing pressure are described in Chapter 228 along with their fabrication methods Many chemical reactions take advantage of the tetravalent trivalent Ce IV Ce III redox couple and many of its potential applications are presented in Chapter 229 from analytical procedures to electrosynthesis and organic and industrial polymerization reactions The last review Chapter 230 focuses on the synthesis and use of divalent samarium based reductants in organic and inorganic reactions mainly on those containing iodide and

pentamethylcyclopentadienyl ligands Authoritative Comprehensive Up to date Critical Reliable *Céramiques pour l'électronique et l'électrotechnique* Jean-Marie Haussonne, 2002-01-01 La 4 me de couverture indique Les composants pour l'électronique sont traditionnellement classifiés en composants actifs et composants passifs Ces derniers comme les condensateurs les résistances ou les composants d'encapsulation sont dans une grande proportion réalisés grâce une technique céramique Celle-ci permet en effet de mettre en œuvre un grand nombre de matériaux distincts dont les propriétés physiques peuvent être très éloignées les unes des autres L'ouvrage de ce spécialiste s'est donné pour mission d'offrir une vue exhaustive des techniques céramiques en électronique en exposant d'une part les propriétés des matériaux utilisés et d'autre part la réalisation pratique des composants électroniques céramiques les plus importants Cet ouvrage sans équivalent en langue française s'adresse principalement aux professeurs étudiants et ingénieurs en science et application des matériaux Better Ceramics Through Chemistry V: Volume 271 Mark J. Hampden-Smith, Walter G. Klemperer, C. Jeffrey Brinker, 1992-09-23 The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners This book was first published in 1992 *Ferroic Materials* A. S. Bhalla, 1994 A collection of papers on ferroelectric thin films materials for intelligent smart systems and adaptive structures and processing of thin films Contributors discuss preparation and characteristics of thin films materials design and properties and sensor characteristics The papers were original

Ferroelectrics Ashim Kumar Bain, Prem Chand, 2017-06-19 Combining both fundamental principles and real life applications in a single volume this book discusses the latest research results in ferroelectrics including many new ferroelectric materials for the latest technologies such as capacitors transducers and memories The first two chapters introduce dielectrics and microscopic materials properties while the following chapter discusses pyroelectricity and piezoelectricity The larger part of the text is devoted to ferroelectricity and ferroelectric ceramics with not only their fundamentals but also applications discussed The book concludes with a look at the future for laser printed materials and applications With over 600 references to recent publications on piezoelectric and ferroelectric materials this is an invaluable reference for physicists materials scientists and engineers **Ceramic Abstracts** American Ceramic Society, 1996 *Thin Film Ferroelectric Materials and Devices* R. Ramesh, 2013-11-27 The past five years have witnessed some dramatic developments in the general area of ferroelectric thin films materials and devices Ferroelectrics are not new materials by any stretch of imagination Indeed they have been known since the early part of this century and popular ferroelectric materials such as Barium Titanate have been in use since the second world war In the late sixties and seventies a considerable amount of research and development effort was made to create a solid state nonvolatile memory using ferroelectrics in a very simple matrix addressed scheme These attempts failed primarily due to problems associated with either the materials or due to device architectures The early eighties saw the advent of new materials processing approaches such as sol gel processing that enabled researchers to fabricate sub micron thin films of ferroelectric materials on a silicon substrate These pioneering

developments signaled the onset of a revival in the area of ferroelectric thin films especially ferroelectric nonvolatile memories. Research and development effort in ferroelectric materials and devices has now hit a feverish pitch. Many university laboratories, national laboratories and advanced R & D laboratories of large IC manufacturers are deeply involved in the pursuit of ferroelectric device technologies. Many companies worldwide are investing considerable manpower and resources into ferroelectric technologies. Some have already announced products ranging from embedded memories in micro controllers, low density stand alone memories, microwave circuit elements and RFID identification tags. There is now considerable optimism that ferroelectric devices and products will occupy a significant market share in the new millennium.

Ferroelectric Thin Films VIII: Volume 596 R. W. Schwartz, 2000-08-17 This book the eighth in a popular series from MRS features the latest technical information on ferroelectric thin films from an international mix of academia, industry and government organizations. Recent results for DRAM and FERAM devices as well as enhancements in material performance for these applications are presented. Significant advances in understanding leakage current, frequency dependence of the coercive field, hydrogen annealing effects, piezoelectric constants and domain switching responses are highlighted. The development of ferroelectric thin films for piezoelectric applications are also reviewed as are improved film fabrication procedures including chemical vapor deposition and chemical solution deposition. Topics include BST thin films and DRAM integration and electrodes, Bi based thin film ferroelectrics, Pb based thin film ferroelectrics, fundamental properties of thin film ferroelectrics, ferroelectric gate materials and devices and piezoelectric pyroelectric and capacitor devices and novel processing strategies.

Integrated Thin Films and Applications R. Kumar Pandey, David E. Witter, Usha Varshney, 1998 Offers 21 selected papers from a May 1997 symposium organized in two sections on film growth techniques and applications and characterization and effects of processing conditions. Subjects include controlled growth of perovskite thin films, single crystal silicon as a micromechanical material, growth of ferroelectric thin films, and applications of ferroelectric thin films.

Deposition and Characterization of Ferroelectric Films for Smart Pixel Applications Subramania Krishnakumar, 1993 *Cracking, Texture Evolution and Electrical Properties of Ferroelectric Thin Films* San Yuan Chen, 1994 *Dielectric Materials and Devices* K. M. Nair, 2002 *Materials and Processes for Nonvolatile Memories* Materials Research Society. Meeting, 2005 *Summaries of Papers Presented at the Conference on Lasers and Electro-optics*, 1995

Metal-organic Chemical Vapor Deposition of Electronic Ceramics, 1993 **Ceramic Source**, 1993 **Materials Chemistry Approach to Submicron Structures Technical Report**, 1992 *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

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