

2000

# SCIENCE AND TECHNOLOGY OF INTEGRATED FERROELECTRICS

Selected Papers from Eleven Years of  
the Proceedings of the International  
Symposium on Integrated Ferroelectrics



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and  
George W. Taylor



CRC Press

# Proceedings Of The Fourth International Symposium On Integrated Ferroelectrics

**M Mark**



## **Proceedings Of The Fourth International Symposium On Integrated Ferroelectrics:**

*Ferroelectric Thin Films* Carlos Paz de Araujo, James F. Scott, George W. Taylor, 1996 The impetus for the rapid development of thin film technology relative to that of bulk materials is its application to a variety of microelectronic products Many of the characteristics of thin film ferroelectric materials are utilized in the development of these products namely their nonvolatile memory and piezoelectric pyroelectric and electro optic properties It is befitting therefore that the first of a set of three complementary books with the general title Integrated Ferroelectric Devices and Technologies focuses on the synthesis of thin film ferroelectric materials and their basic properties Because it is a basic introduction to the chemistry materials science processing and physics of the materials from which integrated ferroelectrics are made newcomers to this field as well as veterans will find this book self contained and invaluable in acquiring the diverse elements requisite to success in their work in this area It is directed at electronic engineers and physicists as well as process and system engineers ceramicists and chemists involved in the research design development manufacturing and utilization of thin film ferroelectric materials Science and Technology of Electroceramic Thin Films O. Auciello, Rainer Waser, 1995-02-28

Electroceramic thin films hold out the promise of applications in entirely new generations of advanced microdevices that may revolutionise technology creating multibillion dollar markets in the process Less glamorous than the high temperature superconductors but probably just as important are electrically conductive ferroelectric piezoelectric pyroelectric electro optic and magnetic films The list of potential applications of films having these properties is virtually endless but there are still some issues to be resolved before fully functioning devices reach the market All these issues and more are discussed in Science and Technology of Electroceramic Thin Films which provides one of the best most up to date summaries of the field currently available **Handbook of Low and High Dielectric Constant Materials and Their Applications,**

**Two-Volume Set** Hari Singh Nalwa, 1999-09-07 Recent developments in microelectronics technologies have created a great demand for interlayer dielectric materials with a very low dielectric constant They will play a crucial role in the future generation of IC devices VLSI ULSI and high speed IC packaging Considerable efforts have been made to develop new low as well as high dielectric constant materials for applications in electronics industries Besides achieving either low or high dielectric constants other materials properties such as good processability high mechanical strength high thermal and environmental stability low thermal expansion low current leakage low moisture absorption corrosion resistant etc are of equal importance Many chemical and physical strategies have been employed to get desired dielectric materials with high performance This is a rapidly growing field of science both in novel materials and their applications to future packing technologies The experimental data on inorganic and organic materials having low or high dielectric constant remain scattered in the literature It is timely therefore to consolidate the current knowledge on low and high dielectric constant materials into a single reference source Handbook of Low and High Dielectric Constant Materials and Their Applications is

aimed at bringing together under a single cover in two volumes all low and high dielectric constant materials currently studied in academic and industrial research covering all aspects of inorganic and organic materials from their synthetic chemistry processing techniques physics structure property relationship to applications in IC devices This book will summarize the current status of the field covering important scientific developments made over the past decade with contributions from internationally recognized experts from all over the world Fully cross referenced this book has clear precise and wide appeal as an essential reference source for all those interested in low and high dielectric constant material [Index of Conference Proceedings](#) British Library. Document Supply Centre, 2003 *Proceedings of the Fourth International Symposium on Integrated Ferroelectrics*, 1993 **Proceedings of the 4th International Conference on Nanochannels, Microchannels and Minichannels-- 2006**, 2006 **Publications in Engineering**, 2002 **Index to IEEE Publications** Institute of Electrical and Electronics Engineers, 1996 Issues for 1973 cover the entire IEEE technical literature **Books in Print**, 1991 **The Fourth International Symposium on Hazards, Prevention, and Mitigation of Industrial Explosions** Isabelle Sochet, 2002 **Proceedings of the Fourth International Symposium on Integrated Ferroelectrics**, 1994 **Ferroelectric Thin Films**, 2000 **Integrated Optics and Microstructures**, 1994 **Electrical & Electronics Abstracts**, 1997 **1995 4th International Conference on Solid-State and Integrated Circuit Technology** International Conference on Solid-State and Integrated Circuit Technology, IEEE Electron Devices Society, 1995 *Proceedings of the Fourth International Symposium on Integrated Ferroelectrics*, 1993 *Fourth International Conference on Integrated Optics and Optical Communication, June 27-30, 1983, Tokyo, Japan*, 1983 **Materials Integration and Processing Development for Microelectromechanical Systems (MEMS)** Thomas Garner Cooney, 1996 *Ferroelectric Thin Films III: Volume 310* Edward R. Myers, Bruce A. Tuttle, 1992 Papers of the symposium held April 13-16 1993 in San Francisco Calif on novel analysis techniques to characterize materials and device properties process integration degradation and modelling CVD spin pyrolysis niobium and barium based ferroelectrics materials and processes sputter deposition pulsed laser and other deposition techniques Annotation copyright by Book News Inc Portland OR **Materials Chemistry Approach to Submicron Structures Technical Report**, 1992

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