



Journal of Solid State Technology

Volume 720

Materials Issues for Tunable RF and Microwave Devices III

EDITORS

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621.3813
M4 T3
2002

Materials Issues For Tunable Rf And Microwave Devices

**Quanxi Jia, Félix A. Miranda, Daniel E.
Oates, Xiaoxing Xi**



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Materials Issues for Tunable RF and Microwave Devices, 2002 Materials Issues for Tunable RF and Microwave Devices II Steven C. Tidrow, Materials Research Society. Fall Meeting Symposium DD., 2000* **Materials Issues for Tunable RF and Microwave Devices III:** Steven C. Tidrow, James S. Horwitz, Xiaoxing Xi, Jeremy Levy, 2002-08-09 This book first published in 2002 discusses challenges facing the implementation of an affordable tunable RF and microwave device technology Low cost tunable microwave devices will have a tremendous impact on a variety of commercial and military systems including tunable band select filters for wireless communications phase shifters and true time delay devices for electronic scanning antennas tunable radiating structures for frequency hopping and tunable transformers to reduce RF impedance mismatch Papers address topics from materials issues through devices and even a system level demonstration of electronic beam steering Specific materials issues discussed include new tunable materials issues of tunability preparation and optimization of bulk and thin film properties materials surface and interface characterization evaluation of material loss and loss mechanisms effects of microstructure and temperature stability Phase shifters are featured and a new device concept for variable true time delay versus phase shift is introduced A paraelectric lens is used to demonstrate electronic beam steering of an antenna at 10 GHz with about 2 dB of loss **Materials Issues for Tunable RF and Microwave Devices III:** Steven C. Tidrow, James S. Horwitz, Xiaoxing Xi, Jeremy Levy, 2014-06-05 This book first published in 2002 discusses challenges facing the implementation of an affordable tunable RF and microwave device technology Low cost tunable microwave devices will have a tremendous impact on a variety of commercial and military systems including tunable band select filters for wireless communications phase shifters and true time delay devices for electronic scanning antennas tunable radiating structures for frequency hopping and tunable transformers to reduce RF impedance mismatch Papers address topics from materials issues through devices and even a system level demonstration of electronic beam steering Specific materials issues discussed include new tunable materials issues of tunability preparation and optimization of bulk and thin film properties materials surface and interface characterization evaluation of material loss and loss mechanisms effects of microstructure and temperature stability Phase shifters are featured and a new device concept for variable true time delay versus phase shift is introduced A paraelectric lens is used to demonstrate electronic beam steering of an antenna at 10 GHz with about 2 dB of loss **Symposium H: Materials Issues for Tunable RF and Microwave Devices III.**, 2002 The purpose of the symposium was to bring together researchers from a broad range of disciplines to discuss the challenges facing the implementation of an affordable tunable RF and microwave device technology Low cost tunable microwave devices will have a tremendous impact on a variety of commercial and military systems including but not limited to tunable band select filters for wireless communications phase shifters and true time delay devices for electronic scanning antennas tunable radiating structures for frequency hopping and tunable transformers to reduce RF impedance mismatch

Materials Issues for Tunable RF and Microwave Devices: Volume 603 Quanxi Jia,Félix A. Miranda,Daniel E.

Oates,Xiaoxing Xi,2000-08-10 Electric or magnetic tunability of RF and microwave devices is desirable for a variety of civilian and military applications Tremendous advances have been made in thin film processing in particular with metal oxide thin films Consequently it has been recognized that the integration of nonlinear dielectric ferrite colossal magnetoresistive CMR ferromagnetic and superconductor materials could revolutionize tunable devices by providing capabilities while significantly reducing size and cost Crucial issues facing this technology concern the material properties in particular the loss in thin films of the tunable materials Extensive efforts are being devoted to understand the tuning and loss mechanisms improve thin film processing and characterization develop new materials and design novel device concepts This book first published in 2000 serves as a reference for researchers and contributes to breakthroughs in basic and applied research in this field Topics include frequency agile materials for electronics electric field tuning magnetic field tuning high frequency applications for ferroelectrics ferroelectrics magnetics and others fundamentals and materials characterization Materials Issues for Tunable RF and Microwave Devices: Volume 603 Quanxi Jia,Félix A. Miranda,Daniel E. Oates,Xiaoxing Xi,2000-08-10 Electric or magnetic tunability of RF and microwave devices is desirable for a variety of civilian and military applications Tremendous advances have been made in thin film processing in particular with metal oxide thin films Consequently it has been recognized that the integration of nonlinear dielectric ferrite colossal magnetoresistive CMR ferromagnetic and superconductor materials could revolutionize tunable devices by providing capabilities while significantly reducing size and cost Crucial issues facing this technology concern the material properties in particular the loss in thin films of the tunable materials Extensive efforts are being devoted to understand the tuning and loss mechanisms improve thin film processing and characterization develop new materials and design novel device concepts This book first published in 2000 serves as a reference for researchers and contributes to breakthroughs in basic and applied research in this field Topics include frequency agile materials for electronics electric field tuning magnetic field tuning high frequency applications for ferroelectrics ferroelectrics magnetics and others fundamentals and materials characterization Materials Research Society Symposium Proceedings; Volume 720. Materials Issues for Tunable RF and Microwave Devices III Held in San Francisco, California on April 2-3, 2002 ,2002 The purpose of this symposium was to bring together researchers from a broad range of disciplines to discuss the challenges facing the implementation of an affordable tunable RF and microwave device technology Low cost tunable microwave devices will have a tremendous impact on a variety of commercial and military systems including but not limited to tunable band select filters for wireless communications phase shifters and true time delay devices for electronic scanning antennas tunable radiating structures for frequency hopping and tunable transformers to reduce RF impedance mismatch The papers of this proceedings discuss a wide range of topics from materials issues through devices and even a system level demonstration of electronic beam steering Specific materials issues discussed are

new tunable materials issues of tunability preparation and optimization of bulk and thin film properties materials surface and interface characterization evaluation of material loss and loss mechanisms effects of microstructure and temperature stability At the device level phase shifters are discussed and a new device concept for variable true time delay versus phase shift is introduced At the system level a paraelectric lens is used to demonstrate electronic beam steering of an antenna at 10 GHz with about 2 dB of loss

Materials Research Society Symposium Proceedings Volume 603. Materials Issues for Tunable RF and Microwave Devices Held November 30-December 2, 1999, Boston, Massachusetts, USA ,1999 This proceedings contains papers presented at Symposium KK Materials Issues for Tunable RF and Microwave Devices held November 30 December 2 at the 1999 MRS Fall Meeting in Boston Massachusetts Electric or magnetic tunability of RF and microwave devices is desirable for a variety of civilian and military applications In recent years there have been tremendous advances in thin film processing in particular the metal oxide thin films Consequently it has been recognized that the integration of nonlinear dielectric ferrite colossal magnetoresistive CMR and superconductor materials could revolutionize tunable devices by providing new capabilities while significantly reducing size and cost Some of the crucial issues facing the tunable RF and microwave device technology concern the material properties in particular the loss in thin films of the tunable materials Extensive efforts are being devoted to understand the tuning and loss mechanisms improve thin film processing and characterization develop new materials and design novel device concepts The papers contained in this volume are a reflection of the work currently in progress in this exciting area They range from electric field to magnetic field tuning from devices to materials and from fundamental understanding to materials characterization The authors come from different materials communities nonlinear dielectric ferrite colossal magnetoresistive CMR semiconductors superconductivity and device engineering etc We hope that this volume will serve as an up to date reference for the researchers inside and outside the field of tunable RF and microwave devices and thus contribute to new breakthroughs in the basic and applied research in this rapidly expanding field

Advanced Dielectric, Piezoelectric and Ferroelectric Thin Films Bruce A. Tuttle, Chonglin Chen, Quanxi Jia, R. Ramesh, 2012-04-17 Advances in synthesis and characterization of dielectric piezoelectric and ferroelectric thin films are included in this volume Dielectric piezoelectric and ferroelectric thin films have a tremendous impact on a variety of commercial and military systems including tunable microwave devices memories MEMS devices actuators and sensors Recent work on piezoelectric characterization AFE to FE dielectric phase transformation dielectrics solution and vapor deposited thin films and materials integration are among the topics included Novel approaches to nanostructuring characterization of material properties and physical responses at the nanoscale also is included

Thin Films and Heterostructures for Oxide Electronics Satishchandra B. Ogale, 2005-11-21 Oxides form a broad subject area of research and technology development which encompasses different disciplines such as materials science solid state chemistry physics etc The aim of this book is to demonstrate the interplay of these fields and to provide an introduction to the

techniques and methodologies involving film growth characterization and device processing The literature in this field is thus fairly scattered in different research journals covering one or the other aspect of the specific activity This situation calls for a book that will consolidate this information and thus enable a beginner as well as an expert to get an overall perspective of the field its foundations and its projected progress

Materials Issues and Modeling for Device Nanofabrication: Volume 584 Lhadi Merhari,2000-08-04 The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners

Handbook of Thin Films Hari Singh Nalwa,2001-11-17 This five volume handbook focuses on processing techniques characterization methods and physical properties of thin films thin layers of insulating conducting or semiconductor material The editor has composed five separate thematic volumes on thin films of metals semimetals glasses ceramics alloys organics diamonds graphites porous materials noncrystalline solids supramolecules polymers copolymers biopolymers composites blends activated carbons intermetallics chalcogenides dyes pigments nanostructured materials biomaterials inorganic polymer composites organoceramics metallocenes disordered systems liquid crystals quasicrystals and layered structures Thin films is a field of the utmost importance in today's materials science electrical engineering and applied solid state physics with both research and industrial applications in microelectronics computer manufacturing and physical devices Advanced high performance computers high definition TV digital camcorders sensitive broadband imaging systems flat panel displays robotic systems and medical electronics and diagnostics are but a few examples of miniaturized device technologies that depend the utilization of thin film materials The Handbook of Thin Films Materials is a comprehensive reference focusing on processing techniques characterization methods and physical properties of these thin film materials

Electrical and Electronic Devices, Circuits, and Materials Suman Lata Tripathi,Parvej Ahmad Alvi,Umeshankar Subramaniam,2021-03-24 The increasing demand for electronic devices for private and industrial purposes lead designers and researchers to explore new electronic devices and circuits that can perform several tasks efficiently with low IC area and low power consumption In addition the increasing demand for portable devices intensifies the call from industry to design sensor elements an efficient storage cell and large capacity memory elements Several industry related issues have also forced a redesign of basic electronic components for certain specific applications The researchers designers and students working in the area of electronic devices circuits and materials sometimes need standard examples with certain specifications This breakthrough work presents this knowledge of standard electronic device and circuit design analysis including advanced technologies and materials This outstanding new volume presents the basic concepts and fundamentals behind devices circuits and systems It is a valuable reference for the veteran engineer and a learning tool for the student the practicing engineer or an engineer from another field crossing over into electrical engineering It is a must have for any library

Defect and Impurity Engineered Semiconductors and Devices III: Volume 719 S. Ashok,2002-08-09 This book focuses on the deliberate introduction and manipulation of defects and impurities in

order to engineer desired properties in semiconductor materials and devices In view of current exciting developments in wide bandgap semiconductors like GaN for blue light emission as well as high speed and high temperature electronics dopant and defect issues relevant to these materials are addressed Also featured are semiconductor nanocavities and nano structures with emphasis on the formation and impact of vacancy type defects Defect reaction problems pertaining to impurity gettering precipitation and hydrogen passivation are specific examples of defect engineering that improve the electronic quality of the material A number of papers also deal with characterization techniques needed to study and to identify defects in materials and device structures Finally papers also address issues such as interface control and passivation application of ion implantation plasma treatment and rapid thermal processing for creating activating suppressing trap levels and device applications

Pulsed Laser Deposition of Thin Films Robert Eason,2007-12-14
Edited by major contributors to the field this text summarizes current or newly emerging pulsed laser deposition application areas It spans the field of optical devices electronic materials sensors and actuators biomaterials and organic polymers Every scientist technologist and development engineer who has a need to grow and pattern to apply and use thin film materials will regard this book as a must have resource

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 ICMC 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

Handbook of Thin Film Materials: Ferroelectric and dielectric thin films Hari Singh Nalwa,2002

Advances in Electronic Ceramics II, Volume 30, Issue 9 Shashank Priya,Anke Weidenkaff,David P. Norton,2009-12-22 This proceedings issue contains a collection of 11 papers presented during the 33rd International Conference on Advanced Ceramics and Composites January 2009 Papers in this proceedings were presented from one of the three symposia listed below Symposium 6 Key Materials and Technologies for Efficient Direct Thermal to Electrical Conversion Symposium 11 Symposium on Advanced Dielectrics Piezoelectric Ferroelectric and Multiferroic Materials

Applications Ferran Martín, 2015-07-13 This book presents and discusses alternatives to ordinary transmission lines for the design and implementation of advanced RF microwave components in planar technology This book is devoted to the analysis study and applications of artificial transmission lines mostly implemented by means of a host line conveniently modified e g with modulation of transverse dimensions with etched patterns in the metallic layers etc or with reactive loading in order to achieve novel device functionalities superior performance and or reduced size The author begins with an introductory chapter dedicated to the fundamentals of planar transmission lines Chapter 2 is focused on artificial transmission lines based on periodic structures including non uniform transmission lines and reactively loaded lines and provides a comprehensive analysis of the coupled mode theory Chapters 3 and 4 are dedicated to artificial transmission lines inspired by metamaterials or based on metamaterial concepts These chapters include the main practical implementations of such lines and their circuit models and a wide overview of their RF microwave applications including passive and active circuits and antennas Chapter 5 focuses on reconfigurable devices based on tunable artificial lines and on non linear transmission lines The chapter also introduces several materials and components to achieve tuning including diode varactors RF MEMS ferroelectrics and liquid crystals Finally Chapter 6 covers other advanced transmission lines and wave guiding structures such as electroinductive magnetoinductive wave lines common mode suppressed balanced lines lattice network artificial lines and substrate integrated waveguides Artificial Transmission Lines for RF and Microwave Applications provides an in depth analysis and discussion of artificial transmission lines including design guidelines that can be useful to researchers engineers and students

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