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Materials, Technology and Reliability for Advanced Interconnects and Low-k Dielectrics

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Jin-Ying Zhang

Materials Technology And Reliability For Advanced Interconnects And Lowk Dielectrics2004 Proceedings:

Materials, Technology and Reliability for Advanced Interconnects and Low-K Dielectrics - 2004 R. J. Carter,2004-09 The scaling of device dimensions with a simultaneous increase in functional density has imposed tremendous challenges for materials technology integration and reliability of interconnects To meet requirements of the ITRS roadmap new materials are being introduced at a faster pace in all functions of multilevel interconnects The issues addressed in this book cannot be dispelled as simply selecting a low k material and integrating it into a copper damascene process The intricacies of the back end for sub 100nm technology include novel processing of low k materials employing pore sealing techniques and capping layers introducing advanced dielectric and diffusion barriers and developing novel integration schemes This is in addition to concerns of performance yield and reliability appropriate to nanoscaled interconnects Although many challenges continue to impede progress along the ITRS roadmap the contributions in this book confront them head on It provides a scientific understanding of the issues and stimulate new approaches to advanced multilevel interconnects

Materials, Technology, and Reliability for Advanced Interconnects and Low-k Dielectrics ,2004 Circuits at the Nanoscale

Krzysztof Iniewski,2018-10-08 Circuits for Emerging Technologies Beyond CMOS New exciting opportunities are abounding in the field of body area networks wireless communications data networking and optical imaging In response to these developments top notch international experts in industry and academia present Circuits at the Nanoscale Communications Imaging and Sensing This volume unique in both its scope and its focus addresses the state of the art in integrated circuit design in the context of emerging systems A must for anyone serious about circuit design for future technologies this book discusses emerging materials that can take system performance beyond standard CMOS These include Silicon on Insulator SOI Silicon Germanium SiGe and Indium Phosphide InP Three dimensional CMOS integration and co integration with Microelectromechanical MEMS technology and radiation sensors are described as well Topics in the book are divided into comprehensive sections on emerging design techniques mixed signal CMOS circuits circuits for communications and circuits for imaging and sensing Dr Krzysztof Iniewski is a director at CMOS Emerging Technologies Inc a consulting company in Vancouver British Columbia His current research interests are in VLSI ciruits for medical applications He has published over 100 research papers in international journals and conferences and he holds 18 international patents granted in the United States Canada France Germany and Japan In this volume he has assembled the contributions of over 60 world reknown experts who are at the top of their field in the world of circuit design advancing the bank of knowledge for all who work in this exciting and burgeoning area

Silicon Carbide 2004 - Materials, Processing and Devices: Volume 815

Materials Research Society. Meeting,2004-08-24 The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners

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Silicon Carbide 2004 - Materials, Processing and Devices:

Volume 815 Michael Dudley, Perera Gouma, Tsunenobu Kimoto, Philip G. Neudeck, Stephen E. Saddow, 2004-08-24 Silicon carbide SiC is a wide bandgap semiconductor that can operate at temperatures well above 300 C where silicon cannot perform. In addition due to a high thermal conductivity equal to copper at room temperature SiC is an ideal candidate for operation in harsh environments and at high power levels. Rapid advances in SiC materials and devices have recently resulted in implementation of SiC based electronic systems and the impact of these devices is expected to significantly increase in the next several years. This book documents the most recent results on growth of bulk and epitaxial layers, physical and structural properties, process technology and device development obtained since the 10th International Conference on Silicon Carbide and Related Materials 2003 (ICSCRM2003) held in Lyon, France. Extended defects in silicon carbide are highlighted. The nature of defects induced by forward biasing of bipolar devices as well as methods to suppress the degradation are addressed.

Flexible Electronics 2004 - Materials and Device Technology: Volume 814 Materials Research Society. Meeting, 2004-09. The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners.

Integration of Advanced Micro- and Nanoelectronic Devices--critical Issues and Solutions Materials Research Society. Meeting, 2004. This volume is the joint proceedings of papers presented in Symposium D High k Insulators and Ferroelectrics for Advanced Microelectronic Devices and Symposium E Integration Challenges in Next Generation Oxide Based Nanoelectronics held April 13-16 at the 2004 MRS Spring Meeting in San Francisco, California. p x

Solid-State

Chemistry of Inorganic Materials V: Volume 848 Materials Research Society. Meeting, 2005-07-18. Solid state chemistry continues to span and to spawn multiple materials research areas attracting investigators from chemistry, condensed matter physics, materials science and engineering, ceramics, chemical engineering and mineralogy, geology to name a few. The common challenge is to understand and to predict structures and properties of new materials. As with earlier volumes in this series from the Materials Research Society, the presentations here represent interdisciplinary research from around the world and explore not only recent advances in the solid state chemistry of inorganic materials but also their impact on commercial applications. The book covers a broad range of topics including synthesis and characterization of novel functional materials, design and fabrication of nanostructures and nanomaterials, crystal and structural chemistry, catalysis, gas separation and storage, and magnetic and optical applications. Both theoretical and computational studies of solid state inorganic materials are featured. Joint presentations with solid state ionics are also particularly fruitful.

Surface

Engineering 2004--fundamentals and Applications Soumendra Nath Basu, 2005. **Materials and Processes for Nonvolatile Memories** Materials Research Society. Meeting, 2005. **Kinetics-Driven Nanopatterning on Surfaces:** **Volume 849** Materials Research Society. Meeting, 2005. Nanopattern formation on surfaces is influenced by many processes involving kinetics, mechanics and thermodynamics. This volume presents recent advances in technology and in scientific

understanding of nanopatterning in a variety of amaterials systems A particular emphasis is on developments in surface nanopatterning as a result of kinetics Various other factors such as mechanical strain and particle source collimation are intimately coupled with the kinetics The book covers self assembly and various fabrication processes of nanostructures the fundamental mechanisms of nanostructure formation and related topics The papers are a valuable source of reference for researchers entering the field of nanostructures formation on surfaces In addition several invited papers provide a critical literature assessment which should also prove helpful to those new to the field *Materials for Photovoltaics: Volume 836* Materials Research Society. Meeting,2005-09-09 Solar cell performance is critically dependent on the optical and electrical properties of their constituent materials In order to obtain significant improvements in performance for future generations of photovoltaic devices it will be necessary to either improve the properties of existing materials or engineer new materials and device structures This book focuses on materials issues and advances for photovoltaics Topics include dye sensitized solar cells nanoparticle hybrid solar cells polymer based devices small molecule based devices III V semiconductors II VI semiconductors and transparent conducting oxides and silicon thin films *Organic/Inorganic Hybrid Materials - 2004: Volume 847* Clément Sanchez,2005-07-29 Interest in hybrid materials has accelerated recently in particular because tailoring materials properties through organization of organic inorganic composites at nanometer length scales is now an important focus for numerous diverse research domains This book s objective here is to create a communal forum for researchers involved in all areas of organic inorganic hybrid materials to share perspectives to learn about leading edge science and engineering occurring around the world and to develop new ideas The book is divided into focus areas that address synthesis and characterization methods functional hybrid materials hybrid materials influenced by biology structured mesoporous materials and materials with multiscale organization Topics include methods of patterning hybrid materials hybrid materials for photonic applications mesoporous films and monoliths biofunctional materials layered hybrid materials applications oriented hybrid materials hybrid materials for electronics optoelectronics and semiconductor applications methods of characterizing hybrid materials and novel synthetic methods *Group-IV Semiconductor Nanostructures: Volume 832* Materials Research Society. Meeting,2005-05-24 The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners *Fundamentals of Nanoindentation and Nanotribology III* Kathryn J. Wahl,2005 This volume focuses on methods to measures and model small volume mechanical and tribological properties Nanoscale characterization of the mechanical and tribological properties of surfaces is important in many engineering applications **Nanoengineered Assemblies and Advanced Micro/Nanosystems: Volume 820** Materials Research Society. Meeting,2004-09-09 The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners *Solid-state Chemistry of Inorganic Materials ,2005* *Flexible Electronics--materials and Device Technology ,2004* *Semiconductor Materials for Sensing* Materials Research Society. Meeting,2005 Members of

the sensor community come together here to discuss advances in the development of new or improved semiconductor materials and in the fundamental understanding of the physical chemical biological phenomena at the origin of the sensing mechanism Contributions dealing with sensor electronics signal processing computing algorithms and packaging are not included in the volume Chemical magnetic radiation acoustic mechanical and biosensors are featured as are nanosensors Several papers highlight advances in combinatorial materials synthesis and theoretical modeling and simulation of gas solid interactions based on density functional theory A combined application of sophisticated experimental and theoretical tools aimed at design and synthesis of novel sensors may have a lasting impact on general research approaches in the chemical sensor community Presentations from a joint session with Symposium K Solid State Ionics are also included and focus on solid electrolytes for membrane applications to develop selective sensors Topics include advanced materials and processing nanotubes and nanowires solid state ionics based sensors modeling mechanism and structure properties relationships biochemical sensors integration and physical sensors

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