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Low-Dielectric Constant Materials IV

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**Lowdielectric Constant Materials Iii Materials Research
Society Symposium Proceedings Vol 476**

J. Joseph Clement



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Low-Dielectric Constant Materials III: Volume 476 Carlye Case, 1997 The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners *Proceedings of the Symposia on Electrochemical Processing in ULSI Fabrication I* Electrochemical Society. Dielectric Science and Technology Division, Electrochemical Society. Electrodeposition Division, Electrochemical Society. Meeting, 1999 Low Dielectric Constant Thin Film High Frequency Characterization Technique Ge Song, 2001 **Low-dielectric Constant Materials**, 1997 *Forthcoming Books* Rose Arny, 1997 **Index of Conference Proceedings** British Library. Document Supply Centre, 1998 **Chemistry in Microelectronics** Yannick Le Tiec, 2013-02-28 Chemistry in Microelectronics Microelectronics is a complex world where many sciences need to collaborate to create nano objects we need expertise in electronics microelectronics physics optics and mechanics also crossing into chemistry electrochemistry as well as biology biochemistry and medicine Chemistry is involved in many fields from materials chemicals gases liquids or salts the basics of reactions and equilibrium to the optimized cleaning of surfaces and selective etching of specific layers In addition over recent decades the size of the transistors has been drastically reduced while the functionality of circuits has increased This book consists of five chapters covering the chemicals and sequences used in processing from cleaning to etching the role and impact of their purity along with the materials used in Front End Of the Line which corresponds to the heart and performance of individual transistors then moving on to the Back End Of the Line which is related to the interconnection of all the transistors Finally the need for specific functionalization also requires key knowledge on surface treatments and chemical management to allow new applications **Scientific Basis for Nuclear Waste Management**, 1999 *International Journal of Materials & Product Technology*, 2003 *Low Dielectric Constant Materials for IC Applications* Paul S. Ho, Jihperng Leu, Wei William Lee, 2012-12-06 Low dielectric constant materials are an important component of microelectronic devices This comprehensive book covers the latest low dielectric constant low k materials technology thin film materials characterization integration and reliability for back end interconnects and packaging applications in microelectronics Highly informative contributions from leading academic and industrial laboratories provide comprehensive information about materials technologies for **Books in Print**, 1991 *Infrared Applications of Semiconductors III* Mahmoud Omar Manasreh, 2000 Flat Panel Display Materials III: Volume 471 Ron Fulks, 1997-09-10 Flat panel displays are rapidly becoming the displays of choice for a variety of information displaying applications ranging from laptop computers to automobile and cockpit read out devices Passive matrix liquid crystal displays and more recently active matrix liquid crystal displays AMLCDs have led the way in the display revolution In addition emissive displays based on field emission electroluminescence and plasma charge are attracting considerable interest Ultimately however the advancement in flat panel display applications will be driven by cost and performance advantages which are dependent on the

advancement of materials and process technologies used to fabricate the displays This book focuses on the materials and large area processes used by the various display technologies both emissive and nonemissive including liquid crystal electroluminescent plasma field emission and micromechanical displays Topics include AMLCD materials and processes thin film transistors for AMLCDs emissive displays and materials and phosphor materials Interfacial Engineering for Optimized Properties II: Volume 586 C. Barry Carter,2000-10-02 The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners This book first published in 2000 concentrates on the preparation and processing of interfaces the relationships between chemistry and structure and the properties and behavior of interfaces particularly in relation to strength and bonding **Organic/Inorganic Hybrid Materials II: Volume 576** Lisa C. Klein,1999-11-10 The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners **Thin Films - Stresses and Mechanical Properties VIII: Volume 594** Richard Vinci,Richard Paul Vinci,2000-09-25 The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners **Chemical Processing of Dielectrics, Insulators and Electronic Ceramics: Volume 606** Anthony C. Jones,2000-08-04 The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners **Materials Reliability in Microelectronics VII: Volume 473** J. Joseph Clement,1997-10-20 The inexorable drive for increased integrated circuit functionality and performance places growing demands on the metal and dielectric thin films used in fabricating these circuits as well as spurring demand for new materials applications and processes This book directly addresses issues of widespread concern in the microelectronics industry smaller feature sizes new materials and new applications that challenge the reliability of new technologies While the book continues the focus on issues related to interconnect reliability such as electromigration and stress particular emphasis is placed on the effects of microstructure An underlying theme is understanding the importance of interactions among different materials and associated interfaces comprising a single structure with dimensions near or below the micrometer scale Topics include adhesion and fracture gate oxide growth and oxide interfaces surface preparation and gate oxide reliability oxide degradation and defects micro structure texture and reliability novel measurement techniques interconnect performance and reliability modeling electromigration and interconnect reliability and stress and stress relaxation

Applications of Synchrotron Radiation Techniques to Materials Science V: Volume 590 Stuart H. Stock,Susan M. Mini,Dale L. Perry,2000-05-22 The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners Power Semiconductor Materials and Devices: Volume 483 S. J. Pearton,1997 The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners

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