

VOLUME 338

# Materials Reliability in Microelectronics IV

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# Materials Reliability In Microelectronics Iv

**P. S. Ho**

## **Materials Reliability In Microelectronics Iv:**

Materials Reliability in Microelectronics IV Materials Research Society,1994-01-01    *Materials Reliability in Microelectronics IV* Materials Research Society. Spring Meeting,1994    Constrained Deformation of Materials Y.-L. Shen,2010-08-09 Constrained Deformation of Materials Devices Heterogeneous Structures and Thermo Mechanical Modeling is an in depth look at the mechanical analyses and modeling of advanced small scale structures and heterogeneous material systems Mechanical deformations in thin films and miniaturized materials commonly found in microelectronic devices and packages MEMS nanostructures and composite and multi phase materials are heavily influenced by the external or internal physical confinement A continuum mechanics based approach is used together with discussions on micro mechanisms to treat the subject in a systematic manner under the unified theme Readers will find valuable information on the proper application of thermo mechanics in numerical modeling as well as in the interpretation and prediction of physical material behavior along with many case studies Additionally particular attention is paid to practical engineering relevance Thus real life reliability issues are discussed in detail to serve the needs of researchers and engineers alike    **Digital Technical Journal of Digital Equipment Corporation** ,1985    Applied Mechanics Reviews ,1994    **Dynamics in Small**

**Confining Systems IV: Volume 543** J. M. Drake,1999-07-15 This book the fourth in a series from the Materials Research Society follows the tradition of earlier volumes in the series and covers a broad range of topics relating to structure and dynamics under geometric restrictions Emphasis is on methods of probing confined systems diffusion in porous media polymers and membranes dielectric and mechanical relaxation in nanopores rheology and friction studies of embedded liquids and properties of dendrimer supermolecules Participants from many varied disciplines share their points of view on the fundamental questions of how spatial restrictions modify a system to behave significantly different than in bulk how this difference relates to the molecular properties and how it can be probed    Plastic Deformation of Ceramics R.C. Bradt,C.A.

Brookes,J.L. Routbort,2013-11-11 This proceedings volume Plastic Deformation of Ceramics constitutes the papers of an international symposium held at Snowbird Utah from August 7 12 1994 It was attended by nearly 100 scientists and engineers from more than a dozen countries representing academia national laboratories and industry Two previous conferences on this topic were held at The Pennsylvania State University in 1974 and 1983 Therefore the last major international conference focusing on the deformation of ceramic materials was held more than a decade ago Since the early 1980s ceramic materials have progressed through an evolutionary period of development and advancement They are now under consideration for applications in engineering structures The contents of the previous conferences indicate that considerable effort was directed towards a basic understanding of deformation processes in covalently bonded or simple oxide ceramics However now more than a decade later the focus has completely shifted In particular the drive for more efficient heat engines has resulted in the development of silicon based ceramics and composite ceramics The discovery of

high temperature cupric oxide based superconductors has created a plethora of interesting perovskite like structured ceramics Additionally nanophasse ceramics ceramic thin films and various forms of toughened ceramics have potential applications and hence their deformation has been investigated Finally new and exciting areas of research have attracted interest since 1983 including fatigue nanoindentation techniques and superplasticity

### **Stress-Induced Phenomena in Metallization**

P. S. Ho,1996 Annotation Proceedings of the June 1995 workshop reporting on new and basic results in electromigration and stress induced void formation Sections on stress characteristics and void formation in thin films and interconnects and electromigration and damage mechanisms in interconnects contain research in areas such as stresses in passivated gold and metal lines electrical measurement of stress induced void growth modeling electromigration in multi level interconnects comparison of electromigration in submicron Al Cu and Cu thin film lines and resistance oscillations induced by DC electromigration No index Annotation c by Book News Inc Portland Or

### **Handbook for III-V High**

**Electron Mobility Transistor Technologies** D. Nirmal,J. Ajayan,2019-05-14 This book focusses on III V high electron mobility transistors HEMTs including basic physics material used fabrications details modeling simulation and other important aspects It initiates by describing principle of operation material systems and material technologies followed by description of the structure I V characteristics modeling of DC and RF parameters of AlGaN GaN HEMTs The book also provides information about source drain engineering gate engineering and channel engineering techniques used to improve the DC RF and breakdown performance of HEMTs Finally the book also highlights the importance of metal oxide semiconductor high electron mobility transistors MOS HEMT Key Features Combines III As P N HEMTs with reliability and current status in single volume Includes AC DC modelling and sub millimeter wave devices with reliability analysis Covers all theoretical and experimental aspects of HEMTs Discusses AlGaN GaN transistors Presents DC RF and breakdown characteristics of HEMTs on various material systems using graphs and plots

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Bureau of Standards,1987      **Sub-Micron Semiconductor Devices** Ashish Raman,Deep Shekhar,Naveen Kumar,2022-05-10 This comprehensive reference text discusses novel semiconductor devices including nanostructure field effect transistors photodiodes high electron mobility transistors and oxide based devices The text covers submicron semiconductor devices device modeling novel materials for devices novel semiconductor devices optimization techniques and their application in detail It covers such important topics as negative capacitance devices surface plasmon resonance devices Fermi level pinning external stimuli based optimization techniques optoelectronic devices and architecture based optimization techniques The book Covers novel semiconductor devices with submicron dimensions Discusses comprehensive device optimization techniques Examines conceptualization and modeling of semiconductor devices Covers circuit and sensor based application of the novel devices Discusses novel materials for next generation devices This text will be useful for

graduate students and professionals in fields including electrical engineering electronics and communication engineering materials science and nanoscience    **Metallurgical Coatings and Thin Films 1994** ,1994    Index of Conference Proceedings British Library. Document Supply Centre,2001    *Publications of the National Bureau of Standards* United States. National Bureau of Standards,1987    *IBM Journal of Research and Development* ,1999    Publications of the National Institute of Standards and Technology ... *Catalog* National Institute of Standards and Technology (U.S.),1988    American Ceramic Society Bulletin ,1990    *Publications of the National Bureau of Standards, 1987 Catalog* United States. National Bureau of Standards,1988

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