



Microelectronic Device Technology II

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Chairs/Editors

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Microelectronic Device Technology II 23 24 September 1998 Santa Clara California Spie Proceedings Series:

Microelectronic Device Technology II David Burnett, Dirk Wristers, Toshiaki Tsuchiya, 1998 A collection of 40 papers on microelectronic device technology It addresses dielectrics gate technology source drain junctions and salicide integration and manufacturability and other issues Microelectronic Device Technology, 1998 American Book Publishing Record, 2000-07 The Cumulative Book Index, 1999 Cumulated Index to the Books, 1999 **Microelectronic Applications of Chemical Mechanical Planarization** Yuzhuo Li, 2007-12-04 An authoritative systematic and comprehensive description of current CMP technology Chemical Mechanical Planarization CMP provides the greatest degree of planarization of any known technique The current standard for integrated circuit IC planarization CMP is playing an increasingly important role in other related applications such as microelectromechanical systems MEMS and computer hard drive manufacturing This reference focuses on the chemical aspects of the technology and includes contributions from the foremost experts on specific applications After a detailed overview of the fundamentals and basic science of CMP Microelectronic Applications of Chemical Mechanical Planarization Provides in depth coverage of a wide range of state of the art technologies and applications Presents information on new designs capabilities and emerging technologies including topics like CMP with nanomaterials and 3D chips Discusses different types of CMP tools pads for IC CMP modeling and the applicability of tribometry to various aspects of CMP Covers nanotopography CMP performance and defect profiles CMP waste treatment and the chemistry and colloidal properties of the slurries used in CMP Provides a perspective on the opportunities and challenges of the next fifteen years Complete with case studies this is a valuable hands on resource for professionals including process engineers equipment engineers formulation chemists IC manufacturers and others With systematic organization and questions at the end of each chapter to facilitate learning it is an ideal introduction to CMP and an excellent text for students in advanced graduate courses that cover CMP or related semiconductor manufacturing processes

Gimballed Electrostatic Microactuators with Embedded Interconnects Lilac Muller, 2000 **ESD** Steven H. Voldman, 2015-06-22 ESD Circuits and Devices 2nd Edition provides a clear picture of layout and design of digital analog radio frequency RF and power applications for protection from electrostatic discharge ESD electrical overstress EOS and latchup phenomena from a generalist perspective and design synthesis practices providing optimum solutions in advanced technologies New features in the 2nd edition Expanded treatment of ESD and analog design of passive devices of resistors capacitors inductors and active devices of diodes bipolar junction transistors MOSFETs and FINFETs Increased focus on ESD power clamps for power rails for CMOS Bipolar and BiCMOS Co synthesizing of semiconductor chip architecture and floor planning with ESD design practices for analog and mixed signal applications Illustrates the influence of analog design practices on ESD design circuitry from integration synthesis and layout to symmetry matching inter digitation and common centroid techniques Increased emphasis on system level testing conforming to IEC 61000 4 2 and IEC 61000 4 5 Improved

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Publications in Engineering ,2002 Index of Conference Proceedings British Library. Document Supply Centre,2000

IEEE Circuits & Devices ,1998 *Microelectronic Device Technology III* David Burnett,Toshiaki Tsuchiya,1999 These conference proceedings consist of 35 papers on relevant issues and topics within the field of microelectric device technology

Microelectronic Manufacturing Yield, Reliability, and Failure Analysis IV Sharad Prasad,Hans-Dieter Hartmann,Tohru Tsujide,1998 A collection of papers on microelectronic manufacturing yield reliability and failure It discusses advanced failure analysis simulation and packaging related reliability issues among other topics

Microelectronic Device Technology II ,1998 **Micromachined Devices and Components IV** ,1998 Process, Equipment, and Materials Control in Integrated Circuit Manufacturing IV Anthony J. Toprac,Kim Dang,Society of Photo-Optical Instrumentation Engineers,Solid State Technology (Organization),1998 **Microelectronic Structures and MEMS for Optical Processing IV** M. Edward Motamedi,Hans Peter Herzig,1998 A volume of papers on microelectronic structures and MEMS for optical processing It explores micromirrors micro optical components and microsensors optomechanical switches and modulators and microactuators **Microelectronic Device Technology** ,1997

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