

MRS SYMPOSIUM PROCEEDINGS

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Materials, Integration and Packaging Issues for High-Frequency Devices

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Materials Integration And Packaging Issues For Highfrequency Devices

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Materials Integration And Packaging Issues For Highfrequency Devices:

Materials, Integration and Packaging Issues for High-frequency Devices, 2003 Materials, Integration and Packaging Issues for High-frequency Devices II Yong S. Cho, 2005-01-01 **Wafer Level 3-D ICs Process Technology** Chuan Seng Tan, Ronald J. Gutmann, L. Rafael Reif, 2009-06-29 Three dimensional 3D integration is clearly the simplest answer to most of the semiconductor industry's vexing problems heterogeneous integration and reductions of power form factor delay and even cost Conceptually the power latency and form factor of a system with a fixed number of transistors all scale roughly linearly with the diameter of the smallest sphere enclosing frequently interacting devices This clearly provides the fundamental motivation behind 3D technologies which vertically stack several strata of device and interconnect layers with high vertical interconnectivity In addition the ability to vertically stack strata with divergent and even incompatible process flows provides for low cost and low parasitic integration of diverse technologies such as sensors energy scavengers nonvolatile memory dense memory fast memory processors and RF layers These capabilities coupled with today's trends of increasing levels of integrated functionality lower power smaller form factor increasingly divergent process flows and functional diversification would seem to make 3D technologies a natural choice for most of the semiconductor industry Since the concept of vertical integration of different strata has been around for over 20 years why aren't vertically stacked strata endemic to the semiconductor industry The simple answer to this question is that in the past the 3D advantages while interesting were not necessary due to the tremendous opportunities offered by geometric scaling In addition even when the global interconnect problem of high performance single core processors seemed insurmountable without innovations such as 3D alternative architectural solutions such as multicores could effectively delay but not eliminate the need for 3D **Advanced Nanoscale ULSI Interconnects: Fundamentals and Applications** Yosi Shacham-Diamand, Tetsuya Osaka, Madhav Datta, Takayuki Ohba, 2009-09-19 In *Advanced ULSI interconnects fundamentals and applications* we bring a comprehensive description of copper based interconnect technology for ultra large scale integration ULSI technology for integrated circuit IC application Integrated circuit technology is the base for all modern electronics systems You can find electronics systems today everywhere from toys and home appliances to a planes and space shuttles Electronics systems form the hardware that together with software are the bases of the modern information society The rapid growth and vast exploitation of modern electronics system create a strong demand for new and improved electronic circuits as demonstrated by the amazing progress in the field of ULSI technology This progress is well described by the famous Moore's law which states in its most general form that all the metrics that describe integrated circuit performance e.g speed number of devices chip area improve exponentially as a function of time For example the number of components per chip doubles every 18 months and the critical dimension on a chip has shrunk by 50% every 2 years on average in the last 30 years This rapid growth in integrated circuit technology results in highly complex integrated circuits with an increasing number of interconnects on chips and between the chip and its package

The complexity of the interconnect network on chips involves an increasing number of metal lines per interconnect level more interconnect levels and at the same time a reduction in the interconnect line critical dimensions

Nanopackaging James E. Morris, 2008-12-30 Nanotechnologies are being applied to microelectronics packaging primarily in the applications of nanoparticle nanocomposites or in the exploitation of the superior mechanical electrical or thermal properties of carbon nanotubes Composite materials are studied for high k dielectrics resistors and inductors electrically conductive adhesives conductive inks underfill fillers and solder enhancement Nanopackaging is intended for industrial and academic researchers industrial electronics packaging engineers who need to keep abreast of their field and others with interests in nanotechnology It will survey the application of nanotechnologies to electronics packaging as represented by current research across the field

AmIware Satyen Mukherjee, Emile Aarts, Raf Roovers, Frans Widdershoven, Martin Ouwkerk, 2006-06-29 Ambient Intelligence is one of the new paradigms in the development of information and communication technology which has attracted much attention over the past years The aim is the to integrate technology into people environment in such a way that it improves their daily lives in terms of well being creativity and productivity Ambient Intelligence is a multidisciplinary concept which heavily builds on a number of fundamental breakthroughs that have been achieved in the development of new hardware concepts over the past years New insights in nano and micro electronics packaging and interconnection technology large area electronics energy scavenging devices wireless sensors low power electronics and computing platforms enable the realization of the heaven of ambient intelligence by overcoming the hell of physics Based on contributions from leading technical experts this book presents a number of key topics on novel hardware developments thus providing the reader a good insight into the physical basis of ambient intelligence It also indicates key research challenges that must be addressed in the future

Materials, Integration and Packaging Issues for High-Frequency Devices: Volume 783 P. Muralt, Y. S. Cho, M. Klee, J. -P. Maria, C. A. Randall, Ch. Hoffmann, 2004-04-05 This book first published in 2004 focuses on the materials technologies that are key to the advancement of high frequency devices The competition for better performing mobile phones is the main driving factor in this field In mobile phones passive components constitute 70 90% of the number of components volume and costs The spirit of the volume is to bring together scientists in the processing characterization packaging device design and applications of passive devices to gain insight into the various paths along which technology of passive components is progressing Topics include improvements in low temperature co fired ceramics microstructure property relationships in perovskites for new materials compositions with lower firing temperatures for microwave dielectrics with high quality factors tunable ferroelectrics allowing low cost solutions for frequency tuning and phase shifters new integration platforms and packaging concepts embedded capacitors integration of RF switches based on MEMS technology bulk acoustic wave resonators and above chip integration

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RF MEMS and Their Applications Vijay K. Varadan,K. J. Vinoy,K. A. Jose,2003-07-25 Microelectromechanical systems MEMS refer to a collection of micro sensors and actuators which can react to environmental change under micro circuit control The integration of MEMS into traditional Radio Frequency RF circuits has resulted in systems with superior performance levels and lower manufacturing costs The incorporation of MEMS based fabrication technologies into micro and millimeter wave systems offers viable routes to ICs with MEMS actuators antennas switches and transmission lines The resultant systems operate with an increased bandwidth and increased radiation efficiency and have considerable scope for implementation within the expanding area of wireless personal communication devices This text provides leading edge coverage of this increasingly important area and highlights the overlapping information requirements of the RF and MEMS research and development communities Provides an introduction to micromachining techniques and their use in the fabrication of micro switches capacitors and inductors Includes coverage of MEMS devices for wireless and Bluetooth enabled systems Essential reading for RF Circuit design practitioners and researchers requiring an introduction to MEMS technologies as well as practitioners and researchers in MEMS and silicon technology requiring an introduction to RF circuit design

Interfacial Engineering for Optimized Properties III: Volume 819 Christopher A. Schuh,2004-07-16 The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners

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