

Proceedings of

1997

IEEE Multi-Chip Module Conference MCMC '97

September 29 - October 1, 1997
San Francisco, CA, USA

Organized by

- IEEE Computer Society Executive Committee
- IEEE Computer Society Technical Committee on Multi-Chip Modules
- IEEE Computer Society Technical Committee on Packaging Technology
- IEEE Computer Society Technical Committee on Systems
- IEEE Computer Society Technical Committee on VLSI



Published by the IEEE Computer Society

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Ieee Multi Chip Module Conference 1997

José Pineda de Gyvez, Dhiraj Pradhan



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Multi-Chip Module Conference, 1997 IEEE (MCMC-97). IEEE Computer Society Staff,1997 Proceedings ,1997

Proceedings, 1997 IEEE Multi-Chip Module Conference IEEE Computer Society,1997-01-01 *Multi-Chip Module Test Strategies* Yervant Zorian,2012-12-06 MCMs today consist of complex and dense VLSI devices mounted into packages that allow little physical access to internal nodes The complexity and cost associated with their test and diagnosis are major obstacles to their use Multi Chip Module Test Strategies presents state of the art test strategies for MCMs This volume of original research is designed for engineers interested in practical implementations of MCM test solutions and for designers looking for leading edge test and design for testability solutions for their next designs Multi Chip Module Test Strategies consists of eight contributions by leading researchers It is designed to provide a comprehensive and well balanced coverage of the MCM test domain Multi Chip Module Test Strategies has also been published as a special issue of the Journal of Electronic Testing Theory and Applications JETTA Volume 10 Numbers 1 and 2 *Integrated Circuit Manufacturability* José Pineda de Gyvez,Dhiraj Pradhan,1998-10-30 INTEGRATED CIRCUIT MANUFACTURABILITY provides comprehensive coverage of the process and design variables that determine the ease and feasibility of fabrication or manufacturability of contemporary VLSI systems and circuits This book progresses from semiconductor processing to electrical design to system architecture The material provides a theoretical background as well as case studies examining the entire design for the manufacturing path from circuit to silicon Each chapter includes tutorial and practical applications coverage INTEGRATED CIRCUIT MANUFACTURABILITY illustrates the implications of manufacturability at every level of abstraction including the effects of defects on the layout their mapping to electrical faults and the corresponding approaches to detect such faults The reader will be introduced to key practical issues normally applied in industry and usually required by quality product and design engineering departments in today s design practices Yield management strategies Effects of spot defects Inductive fault analysis and testing Fault tolerant architectures and MCM testing strategies This book will serve design and product engineers both from academia and industry It can also be used as a reference or textbook for introductory graduate level courses on manufacturing **Area Array Interconnection Handbook** Karl J. Puttlitz,Paul A. Totta,2012-12-06 Microelectronic packaging has been recognized as an important enabler for the solid state revolution in electronics which we have witnessed in the last third of the twentieth century Packaging has provided the necessary external wiring and interconnection capability for transistors and integrated circuits while they have gone through their own spectacular revolution from discrete device to gigascale integration At IBM we are proud to have created the initial simple concept of flip chip with solder bump connections at a time when a better way was needed to boost the reliability and improve the manufacturability of semiconductors The basic design which was chosen for SLT Solid Logic Technology in the 1960s was easily extended to integrated circuits in the 70s and VLSI in the 80s and 90s Three I O bumps have grown to 3000 with even

more anticipated for the future The package families have evolved from thick film SLT to thin film metallized ceramic to co fired multi layer ceramic A later family of ceramics with matching expansivity to silicon and copper internal wiring was developed as a predecessor of the chip interconnection revolution in copper multilevel submicron wiring Powerful server packages have been developed in which the combined chip and package copper wiring exceeds a kilometer All of this was achieved with the constant objective of minimizing circuit delays through short efficient interconnects

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Simulation of Semiconductor Processes and Devices 1998 Kristin De Meyer,Serge Biesemans,2012-12-06 This volume contains the proceedings of the 1998 International Conference on Simulation of Semiconductor Processes and Devices and provides an open forum for the presentation of the latest results and trends in modeling and simulation of semiconductor equipment processes and devices Topics include semiconductor equipment simulation process modeling and simulation device modeling and simulation of complex structures interconnect modeling integrated systems for process device circuit simulation and optimisation numerical methods and algorithms compact modeling and parameter extraction modeling for RF applications simulation and modeling of new devices heterojunction based SET s quantum effect devices laser based

Program Solicitation ,1998

High Performance Clock Distribution Networks Eby G. Friedman,2012-12-06 A number of fundamental topics in the field of high performance clock distribution networks is covered in this book High Performance Clock Distribution Networks is composed of ten contributions from authors at academic and industrial institutions Topically these contributions can be grouped within three primary areas The first topic area deals with exploiting the localized nature of clock skew The second topic area deals with the implementation of these clock distribution networks while the third topic area considers more long range aspects of next generation clock distribution networks High Performance Clock Distribution Networks presents a number of interesting strategies for designing and building high performance clock distribution networks Many aspects of the ideas presented in these contributions are being developed and applied today in next generation high performance microprocessors

Memory, Microprocessor, and ASIC Wai-Kai Chen,2003-03-26 Timing memory power dissipation testing and testability are all crucial elements of VLSI circuit design In this volume culled from the popular VLSI Handbook experts from around the world provide in depth discussions on these and related topics Stacked gate embedded and flash memory all receive detailed treatment including their power cons

The VLSI Handbook Wai-Kai Chen,2019-07-17 Over the years the fundamentals of VLSI technology have evolved to include a wide range of topics and a broad range of practices To encompass such a vast amount of knowledge The VLSI Handbook focuses on the key concepts models and equations that enable the electrical engineer to analyze design and predict the behavior of very large scale integrated circuits It provides the most up to date information on IC technology you can find Using frequent examples the Handbook stresses the fundamental theory behind professional applications Focusing not only on the traditional design methods it contains all relevant sources of

information and tools to assist you in performing your job This includes software databases standards seminars conferences and more The VLSI Handbook answers all your needs in one comprehensive volume at a level that will enlighten and refresh the knowledge of experienced engineers and educate the novice This one source reference keeps you current on new techniques and procedures and serves as a review for standard practice It will be your first choice when looking for a solution

Proceedings of the ... Midwest Symposium on Circuits and Systems ,1999 Integrated Optical Circuits and Components Edmond J. Murphy,2020-08-27 Updates the advancements made in the level of achievable integration of optical circuits and components in the last ten years highlighting the commercial success of particular devices as well as introducing multiple facets of integrated optics

The Electronic Packaging Handbook Glenn R. Blackwell,2017-12-19 The packaging of electronic devices and systems represents a significant challenge for product designers and managers Performance efficiency cost considerations dealing with the newer IC packaging technologies and EMI RFI issues all come into play Thermal considerations at both the device and the systems level are also necessary The Electronic Packaging Handbook a new volume in the Electrical Engineering Handbook Series provides essential factual information on the design manufacturing and testing of electronic devices and systems Co published with the IEEE this is an ideal resource for engineers and technicians involved in any aspect of design production testing or packaging of electronic products regardless of whether they are commercial or industrial in nature Topics addressed include design automation new IC packaging technologies materials testing and safety Electronics packaging continues to include expanding and evolving topics and technologies as the demand for smaller faster and lighter products continues without signs of abatement These demands mean that individuals in each of the specialty areas involved in electronics packaging such as electronic mechanical and thermal designers and manufacturing and test engineers are all interdependent on each others knowledge The Electronic Packaging Handbook elucidates these specialty areas and helps individuals broaden their knowledge base in this ever growing field

MEMS Mechanical Sensors Stephen Beeby,2004 Annotation Engineers and researchers can turn to this reference time and time again when they need to overcome challenges in design simulation fabrication and application of MEMS microelectromechanical systems sensors

Ambient Intelligence with Microsystems Kieran Delaney,2008-10-17 Augmented Materials and Smart Objects investigates the issues required to ensure technology platforms capable of being seamlessly integrated into everyday objects particularly the requirements for integrated computation and MEMs sensors System in a package solutions multi chip modules the impact of the trend towards embedded microelectronic electronics sub systems novel assembly techniques for autonomous MEMs sensors as well as practical performance issues that are key to the AmI concept Also discussed are current requirements for realizing applications oriented examples of smart objects e g smart textiles gadgets integration of smart systems for utility and environmental monitoring etc these are based upon heterogeneous systems linking networks of sensors attached to or physically embedded in objects with information

management systems enabling collections of smart objects to collaborate to provide proactive services to the user Finally Augmented Materials and Smart Objects describes and discusses a number of vision statements strongly relevant to the future development of distributed embedded sensor and actuator platforms for smart objects and ultimately Ambient Intelligence The framework for this is the concept of Augmented Materials these are materials with fully embedded distributed information systems designed to measure all relevant physical properties and provide a full knowledge representation of the material in effect the material would know itself and its current status The RF in RFID Daniel Dobkin, 2012-11-01 This book explains how UHF tags and readers communicate wirelessly It gives an understanding of what limits the read range of a tag how to increase it and why that might result in breaking the law and the practical things that need to be addressed when designing and implementing RFID technology Avoiding heavy math but giving breadth of coverage with the right amount of detail it is an ideal introduction to radio communications for engineers who need insight into how tags and readers work New to this edition Examples of near metal antenna techniques Discussion of the wakeup challenge for battery assisted tags with a BAT architecture example Latest development of protocols EPC Gen 1 2 0 Update 18000 6 discussion with battery assisted tags sensor tags Manchester tags and wakeup provisions Named a 2012 Notable Computer Book for Computer Systems Organization by Computing Reviews The only book to give an understanding of radio communications the underlying technology for radio frequency identification RFID Praised for its readability and clarity it balances breadth and depth of coverage New edition includes latest developments in chip technology antennas and protocols

Microelectronic Packaging M. Datta, Tetsuya Osaka, J. Walter Schultze, 2004-12-20 Microelectronic Packaging analyzes the massive impact of electrochemical technologies on various levels of microelectronic packaging Traditionally interconnections within a chip were considered outside the realm of packaging technologies but this book emphasizes the importance of chip wiring as a key aspect of microelectronic packaging and focuses on electrochemical processing as an enabler of advanced chip metallization Divided into five parts the book begins by outlining the basics of electrochemical processing defining the microelectronic packaging hierarchy and emphasizing the impact of electrochemical technology on packaging The second part discusses chip metallization topics including the development of robust barrier layers and alternative metallization materials Part III explores key aspects of chip package interconnect technologies followed by Part IV s analysis of packages boards and connectors which covers materials development technology trends in ceramic packages and multi chip modules and electroplated contact materials Illustrating the importance of processing tools in enabling technology development the book concludes with chapters on chemical mechanical planarization electroplating and wet etching cleaning tools Experts from industry universities and national laboratories submitted reviews on each of these subjects capturing the technological advances made in each area A detailed examination of how packaging responds to the challenges of Moore s law this book serves as a timely and valuable reference for microelectronic packaging and processing

professionals and other industrial technologists

Low-Power High-Level Synthesis for Nanoscale CMOS Circuits

Saraju P. Mohanty, Nagarajan Ranganathan, Elias Kougianos, Priyadarsan Patra, 2008-05-31 Low Power High Level Synthesis for Nanoscale CMOS Circuits addresses the need for analysis characterization estimation and optimization of the various forms of power dissipation in the presence of process variations of nano CMOS technologies The authors show very large scale integration VLSI researchers and engineers how to minimize the different types of power consumption of digital circuits The material deals primarily with high level architectural or behavioral energy dissipation because the behavioral level is not as highly abstracted as the system level nor is it as complex as the gate transistor level At the behavioral level there is a balanced degree of freedom to explore power reduction mechanisms the power reduction opportunities are greater and it can cost effectively help in investigating lower power design alternatives prior to actual circuit layout or silicon implementation The book is a self contained low power high level synthesis text for Nanoscale VLSI design engineers and researchers Each chapter has simple relevant examples for a better grasp of the principles presented Several algorithms are given to provide a better understanding of the underlying concepts The initial chapters deal with the basics of high level synthesis power dissipation mechanisms and power estimation In subsequent parts of the text a detailed discussion of methodologies for the reduction of different types of power is presented including Power Reduction Fundamentals Energy or Average Power Reduction Peak Power Reduction Transient Power Reduction Leakage Power Reduction Low Power High Level Synthesis for Nanoscale CMOS Circuits provides a valuable resource for the design of low power CMOS circuits

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