

Electronics Packaging Forum Multichip Module Technology Issues

High Performance Design Automation for Multi-chip Modules and Packages
Multichip Module Technologies and Alternatives: The Basics
Multichip Module Technology Handbook
Federal Register
Electronics Packaging Forum
Through-Silicon Vias for 3D Integration
Electronic Packaging and Production
Chip On Board
The International Journal of Microcircuits and Electronic Packaging
Cost Modeling for System Simulation
Annual IEEE Semiconductor Thermal Measurement and Management Symposium
The Cumulative Book Index
Illustrated Official Journal (patents)
Elektronische Baugruppen – Aufbau- und Fertigungstechnik – Die Trends von heute – die Chancen von morgen – Vorträge der DVS/GMM-Fachtagung vom 4. bis 5. Februar 2004 in Fellbach
Extreme Environment Electronics
New Packaging Technology
Proceedings
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Proceedings of the International Conference on Application Specific Array Processors
Dr. Dobb's Journal
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Elektronische Baugruppen – Aufbau- und Fertigungstechnik – Die Trends von heute – die Chancen von morgen – Vorträge der DVS/GMM-Fachtagung vom 4. bis 5. Februar 2004 in Fellbach Extreme Environment Electronics New Packaging Technology Proceedings Forthcoming Books Proceedings of the International Conference on Application Specific Array Processors Dr. Dobb's Journal *Jun-Dong Cho Daryl Ann Doane Philip E. Garrou James E. Morris John Lau John H. Lau Puwei Huang Great Britain. Patent Office John D. Cressler Semiconductor Equipment and Materials International. Technical Programs Rose Army Peter R. Cappello*

today s electronics industry requires new design automation methodologies that allow designers to incorporate high performance integrated circuits into smaller packaging the aim of this book is to present current and future techniques and algorithms of high performance multichip modules mcms and other packaging methodologies innovative technical papers in this book cover design optimization and physical partitioning global routing multi layer assignment timing driven interconnection design timing models clock and power design crosstalk reflection and simultaneous switching noise minimization yield optimization defect area minimization low power physical layout and design methodologies two tutorial reviews review some of the most significant algorithms previously developed for the placement partitioning and signal integrity issues respectively the remaining articles review the trend of prime design automation algorithms to solve the above eight problems which arise in mcms and other packages

far from being the passive containers for semiconductor devices of the past the packages in today s high performance computers pose numerous challenges in interconnecting powering cooling and protecting devices while semiconductor circuit performance measured in picoseconds continues to improve computer performance is expected to be in nanoseconds for the rest of this century a factor of 1000 difference between on chip and off chip performance which is attributable to losses associated with the package thus the package which

interconnects all the chips to form a particular function such as a central processor is likely to set the limits on how far computers can evolve multichip packaging which can relax these limits and also improve the reliability and cost at the systems level is expected to be the basis of all advanced computers in the future in addition since this technology allows chips to be spaced more closely in less space and with less weight it has the added advantage of being useful in portable consumer electronics as well as in medical aerospace automotive and telecommunications products the multichip technologies with which these applications can be addressed are many they range from ceramics to polymer metal thin films to printed wiring boards for interconnections flip chip tab or wire bond for chip to substrate connections and air or water cooling for the removal of heat

mcms are electronic components that house multiple integrated circuits ics upon a single chip their use in design allow systems that are faster hotter and more reliable than those built with standalone ics more and more the speed needs of electronic systems require mcms this comprehensive handbook aims to provide designers with the knowledge needed to understand and work with mcms

important topics covered include building long term reliability by increasing polyimide stability recent discoveries in the field of soldering phenomena relating to fundamental fluid mechanical processes circuit and electromagnetic solutions to problems of modeling highspeed electrical interconnections how to use the finite difference time domain approach in electromagnetic modeling and the development of dedicated test chips for package evaluation in varied field conditions

a comprehensive guide to tsv and other enabling technologies for 3d integration written by an expert with more than 30 years of experience in the electronics industry through silicon vias for 3d integration provides cutting edge information on tsv wafer thinning thin wafer handling

microbumping and assembly and thermal management technologies applications to highperformance high density low power consumption wide bandwidth and small form factor electronic products are discussed this book offers a timely summary of progress in all aspects of this fascinating field for professionals active in 3d integration research and development those who wish to master 3d integration problem solving methods and anyone in need of a low power wide bandwidth design and high yield manufacturing process for interconnect systems coverage includes nanotechnology and 3d integration for the semiconductor industry tsv etching dielectric barrier and seed layer deposition cu plating cmp and cu revealing tsvs mechanical thermal and electrical behaviors thin wafer strength measurement wafer thinning and thin wafer handling microbumping assembly and reliability microbump electromigration transient liquid phase bonding c2c c2w and w2w 2 5d ic integration with interposers 3d ic integration with interposers thermal management of 3d ic integration 3d ic packaging

this book is a one stop guide to the state of the art of cob technology for professionals active in cob and mcm research and development those who wish to master cob and mcm problem solving methods and those who must choose a cost effective design and high yield manufacturing process for their interconnect systems here is a timely summary of progress in al aspects of this fascinating field it meets the reference needs of design material process equipment manufacturing quality reliability packaging and system engineers and technical managers working in electronic packaging and interconnection

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unfriendly to conventional electronic devices circuits and systems extreme environments represent a serious challenge to designers and mission architects the first truly comprehensive guide to this specialized field extreme environment electronics explains the essential aspects

of designing and using devices circuits and electronic systems intended to operate in extreme environments including across wide temperature ranges and in radiation intense scenarios such as space the definitive guide to extreme environment electronics featuring contributions by some of the world s foremost experts in extreme environment electronics the book provides in depth information on a wide array of topics it begins by describing the extreme conditions and then delves into a description of suitable semiconductor technologies and the modeling of devices within those technologies it also discusses reliability issues and failure mechanisms that readers need to be aware of as well as best practices for the design of these electronics continuing beyond just the paper design of building blocks the book rounds out coverage of the design realization process with verification techniques and chapters on electronic packaging for extreme environments the final set of chapters describes actual chip level designs for applications in energy and space exploration requiring only a basic background in electronics the book combines theoretical and practical aspects in each self contained chapter appendices supply additional background material with its broad coverage and depth and the expertise of the contributing authors this is an invaluable reference for engineers scientists and technical managers as well as researchers and graduate students a hands on resource it explores what is required to successfully operate electronics in the most demanding conditions

papers presented at asap 94 held in august 1994 the conference serves as a forum for researchers from universities as well as industry who are interested in the fundamental aspects of application specific computing systems sessions are devoted to signal image processing cad case studies meth

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Introduction

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