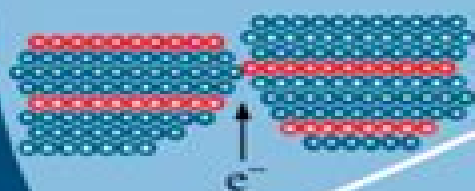
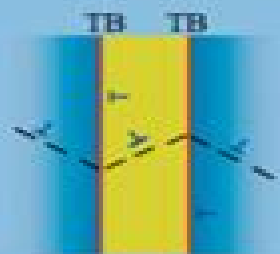
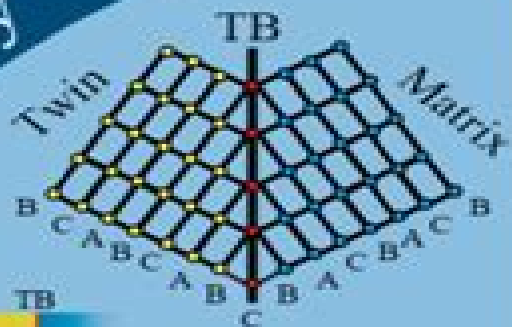


Physical Property



Failure analysis

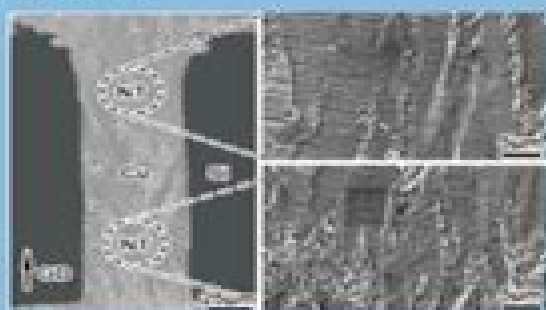


EM in RDL

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nt-Cu in CuP



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solder after heating

Reliability

# Materials Development In Microelectronic Packaging Performance And Reliability

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**Materials Developments in Microelectronic Packaging** Prabjit Singh, 1991-01-01 Failure Modes and Mechanisms in Electronic Packages P. Singh, Puligandla Viswanadham, 2012-12-06 Those of us who grew up in the through hole age of electronic packaging are probably more amazed and appreciative than are our children at the incredible growth of electronic performance capability My son an electrical engineering student seems almost to take for granted the innovations that leave me somewhat awestruck at times Electronic circuit designers delight in packing more punch into less volume while reminding us that their job has become increasingly challenging The lay person also has learned from the media that the industry has been working wonders in shrinking the transistor and expanding the power of the chip Much attention is focussed on the silicon and on the marvelous production and entertainment tools we now see in our offices and homes Between the silicon and the end product lies the less publicized world of circuit level packaging We leave it to a cadre of technologists to take the schematics and parts lists and to develop the processes that turn the designers concepts into physical reality And while the silicon transistor is shrinking the engineering challenges of packaging multiple chips and associated components into increasingly dense subsystems are growing Further the transistor may have to function without failure through severe industrial or military environments over the lifetime of the product

**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

**Microelectronics Packaging Handbook** Rao Tummala, Eugene J. Rymaszewski, Alan G. Klopfenstein, 1997-01-31 Provides the advances in microelectronics design methods modeling tools simulation techniques and manufacturing procedures This book discusses packages that meet the power cooling protection and interconnection requirements of increasingly dense and fast microcircuitry

**Materials and Processes for Microelectronic Systems** K.

M. Nair, R. Pohanka, R. C. Buchanan, 1990      **Engineered Materials Abstracts**, 1992-03      Proceedings of the 1995 IEEE International Symposium on Electronics and the Environment, ISEE, 1995      *Advanced Materials for Thermal Management of Electronic Packaging* Xingcun Colin Tong, 2011-01-05

The need for advanced thermal management materials in electronic packaging has been widely recognized as thermal challenges become barriers to the electronic industry's ability to provide continued improvements in device and system performance. With increased performance requirements for smaller, more capable and more efficient electronic power devices, systems ranging from active electronically scanned radar arrays to web servers all require components that can dissipate heat efficiently. This requires that the materials have high capability of dissipating heat and maintaining compatibility with the die and electronic packaging. In response to critical needs, there have been revolutionary advances in thermal management materials and technologies for active and passive cooling that promise integrable and cost-effective thermal management solutions. This book meets the need for a comprehensive approach to advanced thermal management in electronic packaging with coverage of the fundamentals of heat transfer, component design guidelines, materials selection and assessment, air liquid and thermoelectric cooling, characterization techniques and methodology, processing and manufacturing technology, balance between cost and performance, and application niches. The final chapter presents a roadmap and future perspective on developments in advanced thermal management materials for electronic packaging.

**Proceedings of the ... IEEE International Symposium on Electronics and the Environment**, 1995      Research and Technology Program Digest United States. National Aeronautics and Space Administration, Research and Technology Program Digest Flash Index, 1967      Ceramic Abstracts American Ceramic Society, 1993

**Paper**, 1999      日本電子学会 (Japan), 1900      **New Technology in Electronic Packaging** B. R. Livesay, M. D. Nagarkar, 1990      **Winter Annual Meeting** American Society of Mechanical Engineers, 1995      *Proceedings from the Ninth Meeting of the Symposium on Polymers for Microelectronics at Winterthur* Craig C. Schuckert, 2000

Conference Proceedings Society of Plastics Engineers. Technical Conference, 1983      *Micro-optoelectronic Materials* Carl A. Kukkonen, 1988      Fiftieth Anniversary, 1912-1962 Institute of Radio Engineers, 1962

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