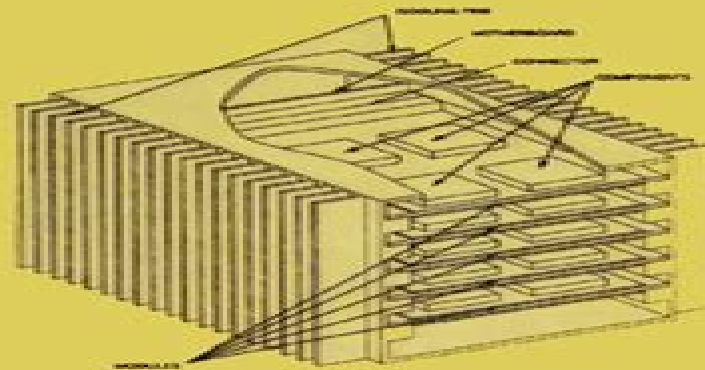


MECHANICAL ANALYSIS OF ELECTRONIC PACKAGING SYSTEMS



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Quality Conformance and Qualification of Microelectronic Packages and Interconnects Michael G. Pecht, Abhijit Dasgupta, John W. Evans, Jillian Y. Evans, 1994-12-13 All packaging engineers and technologists who want to ensure that they give their customers the highest quality most cost effective products should know that the paradigm has shifted It has shifted away from the MIL STDs and other government standards and test procedures that do not cost effectively address potential failure mechanisms or the manufacturing processes of the product It has shifted decisively towards tackling the root causes of failure and the appropriate implementation of cost effective process controls quality screens and tests This book's groundbreaking science based approach to developing qualification and quality assurance programs helps engineers reach a new level of reliability in today's high performance microelectronics It does this with powerful Techniques for identifying and modeling failure mechanisms earlier in the design cycle breaking the need to rely on field data Physics of failure product reliability assessment methods that can be proactively implemented throughout the design and manufacture of the product Process controls that decrease variabilities in the end product and reduce end of line screening and testing A wide range of microelectronic package and interconnect configurations for both single and multi chip modules is examined including chip and wire bonds tape automated TAB flip TAB flip chip bonds high density interconnects chip on board designs COB MCM 3 D stack and many more The remaining package elements such as die attachment case and lid leads and lid and lead seals are also discussed in detail The product of a distinguished team of authors and editors this book's guidelines for avoiding potential high risk manufacturing and qualification problems as well as for implementing ongoing quality assurance are sure to prove invaluable to both students and practicing professionals For the professional engineer involved in the design and manufacture of products containing electronic components here is a comprehensive handbook to the theory and methods surrounding the assembly of microelectronic and electronic components The book focuses on computers and consumer electronic products with internal subsystems that reflect mechanical design constraints cost limitations and aesthetic and ergonomic concerns Taking a total system approach to packaging the book systematically examines basic chip and computer architecture design and layout interassembly and interconnections cooling scheme materials selection including ceramics glasses and metals stress vibration and acoustics and manufacturing and assembly technology 1994 0 471 53299 1 800 pp

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