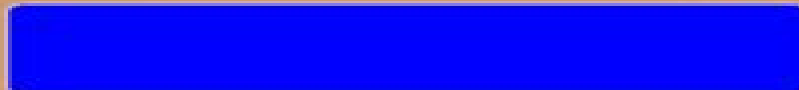
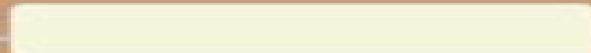
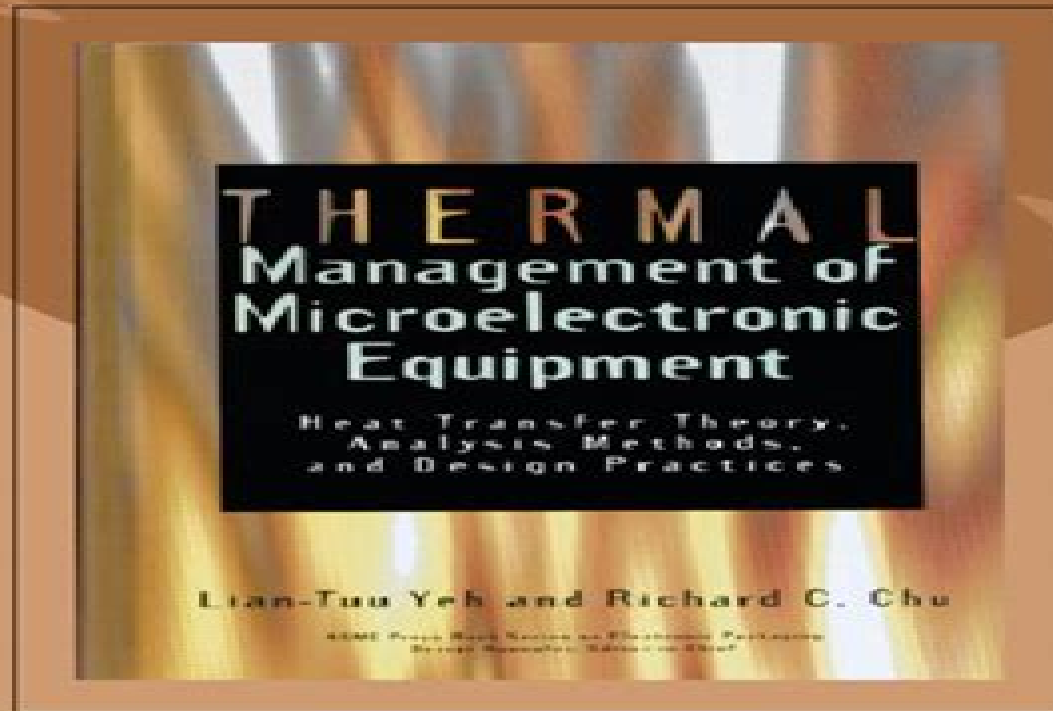


Thermal management of microelectronic equipment heat transfer theory analysis methods and design practices 1st Edition Lian-Tuu Yeh



Heat Transfer In Electronic And Microelectronic Equipment

Sung Jin Kim, Sang Woo Lee



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Hijikata, 1994-02-28 Electronic technology is developing rapidly and with it the problems associated with the cooling of microelectronic equipment are becoming increasingly complex So much so that it is necessary for experts in the fluid and thermal sciences to become involved with the cooling problem Such thoughts as these led to an approach to leading specialists with a request to contribute to the present book *Cooling of Electronic Systems* presents the technical progress achieved in the fundamentals of the thermal management of electronic systems and thermal strategies for the design of microelectronic equipment The book starts with an introduction to the cooling of electronic systems involving such topics as trends in computer system cooling the cooling of high performance computers thermal design of microelectronic components natural and forced convection cooling cooling by impinging air and liquid jets thermal control systems for high speed computers together with a detailed review of advances in manufacturing and assembly technology Following this practical methods for the determination of the parameters required for the thermal analysis of electronic systems and the accurate prediction of temperature in consumer electronics *Cooling of Electronic Systems* is currently the most up to date book on the thermal management of electronic and microelectronic equipment and the subject is presented by eminent scientists and experts in the field Vital reading for all designers of modern high speed computers

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Cooling Technology for Electronic Equipment Sung Jin Kim, Sang Woo Lee, 2020-07-24 Clear your bookcase of references containing bits and pieces of useful information and replace them with this thorough single volume guide to thermal analysis Air Cooling Technology for Electronic Equipment is a helpful practical resource that answers questions frequently asked by thermal and packaging engineers grappling with today's demand for increased thermal control in electronics Superbly organized for quick reference the book dedicates each chapter to answering fundamental questions such as What is the optimal spacing between the printed circuit boards What is a good estimate of the heat transfer coefficient and the associated pressure drop for forced convection over package arrays How are heat transfer and fluid flow characteristics in the entrance region different from those in the fully developed region What is the effect of substrate conduction on convection cooling The chapters written by engineers and engineering educators who are experts in electronic cooling are packed with details and present the latest developments in air cooling techniques and thermal design guidelines They provide problem solving analyses that are jargon free straightforward and easy to understand Air Cooling Technology for Electronic Equipment is a handy source of technical information for anyone who wants to get the most out of air cooling *Heat Transfer in Microelectronic Equipment* John H. Seely, Richard C. Chu, 1972 **Thermal Management of Electronic Systems** C.J. Hoogendoorn, R.A.W.M. Henkes, C.J.M. Lasance, 2012-12-06 The Eurotherm Committee has chosen Thermal Management of Electronic Systems as the subject of its 29th Seminar at Delft University of Technology the Netherlands 14-16 June 1993 This volume constitutes the proceedings of the Seminar Thermal Management is but one of the several critical topics in the design of electronic systems However as a result of the combined effects of increasing heat fluxes miniaturisation and the striving for zero defects preferably in less time and at a lower cost than before thermal management has become an increasingly tough challenge Therefore it is being increasingly recognised that cooling requirements could eventually hamper the technical progress in miniaturisation It might be argued that we are on the verge of a revolution in thermal management techniques Previously a packaging engineer had no way of predicting the temperatures of critical electronic parts with the required accuracy He or she had to rely on full scale experiments doubtful design rules or worst case estimates This situation is going to be changed in the foreseeable future User friendly software tools the acquisition and integrity of input and output data the badly needed training measures the introduction into a concurrent engineering environment all these items will exert a heavy toll on the flexibility of the electronics industries Fortunately this situation is being realised at the appropriate management levels and the interest in this seminar and the pre conference tutorials testifies to this assertion *Cooling of Electronic Systems* Sadik Kakaç, Hafit Yüncü, K. Hijikata, 2012-12-06 Electronic technology is developing rapidly and with it the problems associated with the cooling of microelectronic equipment are becoming increasingly complex So much so that it is necessary for experts in the fluid and thermal sciences to become involved with the cooling problem Such thoughts as these led to an approach to leading specialists with a request to contribute to the present book Cooling of Electronic Systems

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Microelectronics Packaging Handbook R.R. Tummala,Eugene J. Rymaszewski,Alan G. Klopfenstein,2012-12-06

Electronics has become the largest industry surpassing agriCulture auto and heavy metal industries It has become the industry of choice for a country to prosper already having given rise to the phenomenal prosperity of Japan Korea Singapore Hong Kong and Ireland among others At the current growth rate total worldwide semiconductor sales will reach 300B by the year 2000 The key electronic technologies responsible for the growth of the industry include semiconductors the packaging of semiconductors for systems use in auto telecom computer consumer aerospace and medical industries displays magnetic and optical storage as well as software and system technologies There has been a paradigm shift however in these technologies from mainframe and supercomputer applications at any cost to consumer applications at approximately one tenth the cost and size Personal computers are a good example going from 500IMIP when products were first introduced in 1981 to a projected IIMIP within 10 years Thin light portable user friendly and very low cost are therefore the attributes of tomorrow s computing and communications systems Electronic packaging is defined as interconnection powering cool ing and protecting semiconductor chips for reliable systems It is a key enabling technology achieving the requirements for reducing the size and cost at the system and product level

Multichip Module Technologies and Alternatives: The Basics Daryl Ann Doane,Paul Franzon,1992-10-31 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

Heat Transfer in Electronic Equipment, 1991 A. Ortega,D. Agonafer,B. W. Webb,1991 *Influence of Temperature on Microelectronics and System Reliability* Pradeep Lall,Michael G. Pecht,Edward B. Hakim,2020-07-09 This book raises the level of understanding of thermal design criteria It provides the design team with sufficient knowledge to help them evaluate device architecture trade offs and the effects of operating temperatures The author provides readers a sound scientific basis for system operation at realistic steady state temperatures without reliability penalties Higher temperature performance than is commonly recommended is shown to be cost effective in production for life cycle costs The microelectronic package considered in the book is assumed to consist of a semiconductor device with first level interconnects that may be wirebonds flip chip or tape automated bonds die attach substrate attach case lid lid seal and lead seal The temperature effects on electrical parameters of both bipolar and MOSFET devices are discussed and models quantifying the temperature effects on package elements are identified Temperature related models have been used to derive derating criteria for determining the maximum and minimum allowable temperature stresses for a given microelectronic package architecture The first chapter outlines problems with some of the current modeling strategies The next two chapters present microelectronic device failure mechanisms in terms of their dependence on steady state temperature temperature cycle temperature gradient and rate of change of temperature at the chip and package level Physics of failure based models used to characterize these failure mechanisms are identified and the variabilities in temperature dependence of each of the failure mechanisms are characterized Chapters 4 and 5 describe the effects of temperature on the performance characteristics of MOS and bipolar devices Chapter 6 discusses using high temperature stress screens including burn in for high reliability applications The burn in conditions used by some manufacturers are examined and a physics of failure approach is described The *Experimental Heat Transfer, Fluid Mechanics and Thermodynamics 1993* M.D. Kelleher,R.K. Shah,K.R. Sreenivasan,Y. Joshi,2012-12-02 The papers contained in this volume reflect the ingenuity and originality of experimental work in the areas of fluid mechanics heat transfer and thermodynamics The contributors are drawn from 27 countries which indicates how well the worldwide scientific community is networked The papers cover a broad spectrum from the experimental investigation of complex fundamental physical phenomena to the study of practical devices and applications A uniform outline and method of presentation has been used for each paper *Heat Transfer Equipment Design* R. K. Shah,Eleswarapu Chinna Subbarao,R. A. Mashelkar,1988-07-01 *Heat Transfer Enhancement in Externally Finned Tubes and Internally Finned Tubes and Annuli* Sujoy Kumar Saha,Hrishiraj Ranjan,Madhu Sruthi Emani,Anand Kumar Bharti,2019-07-26 This Brief deals with externally

finned tubes their geometric parameters Reynolds number dimensionless variables friction factor plain plate fins on round tubes the effect of fin spacing correlations plain individually finned tubes circular fins with staggered tubes low integral fin tubes wavy fin enhanced plate fin geometries with round tubes Offset Strip Fins convex louver fins louvered fin perforated fin mesh fin vortex generator enhanced circular fin geometries spine or segmented fin wire loop fin flat extruded tubes with internal membranes plate and fin automotive radiators performance comparison numerical simulation advanced fin geometries hydrophilic coatings internally finned tubes and annuli spirally fluted and indented tube advanced internal fin geometries and finned annuli The book is ideal for professionals and researchers dealing with thermal management in devices **Microfabricated Systems and MEMS VI** Peter J. Hesketh, 2002 **Handbook of Phase Change** S.G. Kandlikar, 2019-01-22 Provides a comprehensive coverage of the basic phenomena It contains twenty five chapters which cover different aspects of boiling and condensation First the specific topic or phenomenon is described followed by a brief survey of previous work a phenomenological model based on current understanding and finally a set of recommended design equa

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