



Cooling Of Electronic Equipment

Allan W. Scott



Cooling Of Electronic Equipment:

Cooling of Electronic Equipment Allan W. Scott, 1974 **Cooling Techniques for Electronic Equipment** Dave S. Steinberg, 1991-10-22 Details infallible techniques for designing electronic hardware to withstand severe thermal environments Using both SI and English units throughout it presents methods for the development of various reliable electronic systems without the need of high speed computers It also offers mathematical modeling applications using analog resistor networks to provide the breakup of complex systems into numerous individual thermal resistors and nodes for those who prefer high speed digital computer solutions to thermal problems *Cooling of Electronic Systems* Sadik Kakaç, Hafit Yüncü, K. 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 *Air Cooling Technology for Electronic Equipment* Sung Jin Kim, Sang Woo Lee, 1996-04-26 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 **Design Manual of Natural Methods of Cooling Electronic Equipment** United States. Ships Bureau,1962 **Cooling Electronic Equipment** ALLAN D. KRAUS,1965

Guide Manual of Cooling Methods for Electronic Equipment Cornell Aeronautical Laboratory,United States. Navy Department. Bureau of Ships,1956 Cooling of Electronic Equipment Allan W. Scott, *Thermal Design of Electronic Equipment* Ralph Remsburg,2017-12-19 In a field where change and growth is inevitable new electronic packaging problems continually arise Smaller more powerful devices are prone to overheating causing intermittent system failures corrupted signals lower MTBF and outright system failure Since convection cooling is the heat transfer path most engineers take to deal with thermal problems it is appropriate to gain as much understanding about the underlying mechanisms of fluid motion as possible *Thermal Design of Electronic Equipment* is the only book that specifically targets the formulas used by electronic packaging and thermal engineers It presents heat transfer equations dealing with polyalphaolephin PAO silicone oils perfluorocarbons and silicate ester based liquids Instead of relying on theoretical expressions and text explanations the author presents empirical formulas and practical techniques that allow you to quickly solve nearly any thermal engineering problem in electronic packaging **Advanced Thermal Design of Electronic Equipment** Ralph Remsburg,1998-02-28 With today s high density high performance electronic systems packaging and more specifically thermal engineering has become the critical factor that limits on time product introduction and reliability in the field This book serves as a reference for engineers who must predict the thermal performance of a company s latest product as well as the technicians who must quickly solve the problem of an overheating chip in a product that is already on the shelves **Heat Transfer in Miniaturized Electronic Equipment** Cornell Aeronautical Laboratory,1955 **Guide Manual of Cooling Methods for Electronic Equipment** United States. Navy Department. Bureau of Ships,1956 Colling of Electronic Equipment Sassan Khatib-Shahidi,1988 Air 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 associate 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

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Equipment United States Ships Bureau,1958 **Design Manual of Natural Methods of Cooling Electronic Equipment** James P. Welsh,Cornell Aeronautical Laboratory,1962 **Cooling of Electronic Equipment in Relation to Component Temperature Limitations and Reliability** G. German,1974 **Direct Liquid Cooling for Electronic Equipment** ,2014

This report documents a demonstration of an electronic equipment cooling system in the engineering prototype development stage that can be applied in data centers The technology provides cooling by bringing a water based cooling fluid into direct contact with high heat generating electronic components This direct cooling system improves overall data center energy efficiency in three ways High heat generating electronic components are more efficiently cooled directly using water capturing a large portion of the total electronic equipment heat generated This captured heat reduces the load on the less efficient air based data center room cooling systems The combination contributes to the overall savings The power consumption of the electronic equipment internal fans is significantly reduced when equipped with this cooling system The temperature of the cooling water supplied to the direct cooling system can be much higher than that commonly provided by facility chilled water loops and therefore can be produced with lower cooling infrastructure energy consumption and possibly compressor free cooling Providing opportunities for heat reuse is an additional benefit of this technology The cooling system can be controlled to produce high return water temperatures while providing adequate component cooling The demonstration was conducted in a data center located at Lawrence Berkeley National Laboratory in Berkeley California Thirty eight servers equipped with the liquid cooling system and instrumented for energy measurements were placed in a single rack Two unmodified servers of the same configuration located in an adjacent rack were used to provide a baseline The demonstration characterized the fraction of heat removed by the direct cooling technology quantified the energy savings for a number of cooling infrastructure scenarios and provided information that could be used to investigate heat reuse opportunities Thermal measurement data were used with data center energy use modeling software to estimate overall site energy use These estimates show that an overall data center energy savings of approximately 20 percent can be expected if a center is retrofitted as specified in the models used Increasing the portion of heat captured by this technology is an area suggested for further development

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