Record Nr. UNINA9910450040703321 Numerical methods in thermal management of electronic systems **Titolo** [[electronic resource] /] / guest editor: Professor K.N. Seetharamu Bradford, England, : Emerald Group Publishing, c2005 Pubbl/distr/stampa **ISBN** 1-280-50829-9 9786610508297 1-84544-236-9 Descrizione fisica 1 online resource (115 p.) International journal of numerical methods for heat & fluid flow ; ; v.15. Collana no. 1 Altri autori (Persone) SeetharamuK. N Disciplina 532.0050285 Fluid dynamics - Mathematics Soggetti Heat - Transmission - Mathematics Electronic books. Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali CONTENTS; EDITORIAL ADVISORY BOARD; Editorial; Analysis and Nota di contenuto optimization of the thermal performance of microchannel heat sinks; Optimization of thermal resistance of stacked micro-channel using genetic algorithms; Thermal analysis of micro-channel heat exchangers with two-phase flow using FEM; Application of computational fluid dynamics simulation tools for thermal characterization of electronic packages; Forced convection heat transfer from solder balls on a printed circuit board using the characteristic based split (CBS) Steady and unsteady thermal analysis of a triple stack cold plate with heat lossesNote from the publisher Numerical methods in thermal management of electronic systemsThis Sommario/riassunto special issue brings together a number of papers dealing with the topic of heatand fluid flow, which are important in the thermal management of electronic systems. As the miniaturization of the electronic systems is proceeding at a rapid rate, thethermal problems are becoming more acute as they affect the performance and thereliability of the product.