Basil T. Wong M. Pinar Mengüç

MICROTECHNOLOGY AND MEMS

Thermal Transport for Applications in Micro/Nanomachining



Basil T. Wong, Pinar M. Mengüç

Thermal Transport for Applications in Micro/Nanomachining Basil T. Wong, Pinar M. Mengüç, 2008-07-19 Beginning with an overview of nanomachining this monograph introduces the relevant concepts from solid state physics thermodynamics and lattice structures It then covers modeling of thermal transport at the nanoscale and details simulations of different processes relevant to nanomachining The final chapter summarizes the important points and discusses directions for future work to improve the modeling of nanomachining Applications of Nanobiotechnology Margarita Stoytcheva, Roumen Zlatev, 2020-07-08 This book is dedicated to the applications of nanobiotechnology i e the way that nanotechnology is used to create devices to study biological systems and phenomena It includes seven chapters organized in two sections The first section Chapters 1 5 covers a large spectrum of issues associated with nanoparticle synthesis nanoparticle toxicity and the role of nanotechnology in drug delivery tissue engineering agriculture and biosensing The second section Chapters 6 and 7 is devoted to the properties of nanofluids and the medical and biological applications of computational fluid dymanics modeling Nano-scale Heat Transfer in Nanostructures Jihong Al-Ghalith, Traian Dumitrică, 2018-03-13 The book introduces modern atomistic techniques for predicting heat transfer in nanostructures and discusses the applications of these techniques on three modern topics. The study of heat transport in screw dislocated nanowires with low thermal conductivity in their bulk form represents the knowledge base needed for engineering thermal transport in advanced thermoelectric and electronic materials and suggests a new route to lower thermal conductivity that could promote thermoelectricity The study of high temperature coating composite materials facilitates the understanding of the role played by composition and structural characterization which is difficult to approach via experiments And the understanding of the impact of deformations such as bending and collapsing on thermal transport along carbon nanotubes is important as carbon nanotubes due to their exceptional thermal and mechanical properties are excellent material candidates in a variety of applications including thermal interface materials thermal switches and composite materials Microscale and Nanoscale Heat Transfer Mourad Rebay, Sadik Kakaç, Renato Machado Cotta, 2016 Use of electronics requires improved thermal packaging and management and the development of efficient cooling techniques for them is a key application of microscale heat transfer Heat exchangers are important in energy systems chemical processing and nuclear reactors and cooling heating is a key factor in the design of automobiles and aircraft The thermal conductivity of heat transfer fluids can be increased by adding nanoparticles in fluids heat transfer cooling heating capabilities are thus enhanced resulting in compact energy material saving devices This book explores related topics and issues **Dynamical Analysis of** Non-Fourier Heat Conduction and Its Application in Nanosystems Yuan Dong, 2015-10-14 This thesis studies the general heat conduction law irreversible thermodynamics and the size effect of thermal conductivity exhibited in nanosystems from the perspective of recently developed thermomass theory. The derivation bridges the microscopic phonon

Boltzmann equation and macroscopic continuum mechanics Key concepts such as entropy production temperature and the Onsager reciprocal relation are revisited in the case of non Fourier heat conduction Lastly useful expressions are extracted from the picture of phonon gas dynamics and are used to successfully predict effective thermal conductivity in nanosystems

Thermal Transport in Oblique Finned Micro/Minichannels Yan Fan,Poh Seng Lee,Pawan Kumar Singh,Yong Jiun Lee,2014-10-19 The main aim of this book is to introduce and give an overview of a novel easy and highly effective heat transfer augmentation technique for single phase micro minichannel heat sink The specific objectives of the volume are to Introduce a novel planar oblique fin microchannel and cylindrical oblique fin minichannel heat sink design using passive heat transfer enhancement techniques Investigate the thermal transport in both planar and cylindrical oblique fin structures through numerical simulation and systematic experimental studies Evaluate the feasibility of employing the proposed solution in cooling non uniform heat fluxes and hotspot suppression Conduct the similarity analysis and parametric study to obtain empirical correlations to evaluate the total heat transfer rate of the oblique fin heat sink Investigate the flow mechanism and optimize the dimensions of cylindrical oblique fin heat sink Investigate the influence of edge effect on flow and temperature uniformity in these oblique fin channels

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