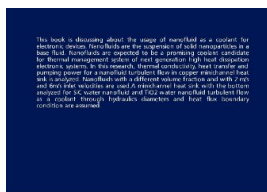


[PDF] Nanofluid As A Coolant For Electronic Devices: Cooling Of Electronic Devices

Ali Ijam, Saidur Rahman - pdf download free book



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Currently, Ali Ijam is a PhD student at the University of Malaya, working on hybrid and base nanofluid. He obtained a B.Sc. degree in Materials Engineering from University of Malaya, Kuala Lumpur, and a Master of Engineering in Mechanical from University of Malaya, Kuala Lumpur.



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Description:

This book is discussing about the usage of nanofluid as a coolant for electronic devices. Nanofluids are the suspension of solid nanoparticles in a base fluid. Nanofluids are expected to be a promising coolant candidate for thermal management system of next generation high heat dissipation electronic systems. In this research, thermal conductivity, heat transfer and pumping power for a nanofluid turbulent flow in copper minichannel heat sink is analyzed. Nanofluids with a different

volume fraction and with 2 m/s and 6m/s inlet velocities are used. A minichannel heat sink with the bottom analyzed for SiC water nanofluid and TiO₂ water nanofluid turbulent flow as a coolant through hydraulics diameters and heat flux boundary condition are assumed.

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