



Silicon Microchannel Heat Sinks: Theories and Phenomena (Microtechnology and MEMS)

Lian Zhang, Kenneth E. Goodson, Thomas W. Kenny

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Two-phase microchannel cooling is one of the most promising thermal-management technologies for future high-power IC chips. Understanding the boiling process and the two-phase-flow behavior in microchannels is the key to successful implementation of a microchannel heat sink. This book focuses on the phase-change phenomena and the heat transfer in sub-150 nm diameter silicon microchannels, with emphasis on thermal measurement and modeling, and the impact of small dimensions on two-phase flow regimes.

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