

FLUID FLOW HEAT TRANSFER AND BOILING IN MICROCHANNELS%0A

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The book treats the problem of single- and two-phase heat transfer in micro-channels. We consider the effect of wall roughness on energy dissipation, axial heat conduction, operating parameters corresponding to stable and unstable flow and steady and unsteady flow with distinct interface.

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Heat Transfer and Fluid Flow in Microchannels - Begehl ...

Fluid flow and heat transfer process at the microscale bring into play many aspects that are not significant at the macro scale. The book fills a void in the existing literature and covers a large body of new knowledge in the thermal-fluid dynamics theory and applications in micro-geometries. The volume also presents a critical assessment of the state-of-the-art in the field. Intended for both **Fluid Flow, Heat Transfer and Boiling in Micro-Channels ...**

The subject of the book is uid dynamics and heat transfer in micro-channels. This problem is important for understanding the complex phenomena associated with single- and two-phase ows in heated micro-channels. **Fluid Flow and Heat Transfer of Gas-Liquid Two-Phase Flow ...**

The fluid flow and heat transfer behavior of gas-liquid two- phase flows in square and rectangular microchannels is studied using a three-dimensional numerical simulation. **CFD Analysis of Fluid Flow and Heat Transfer in Two Phase ...**

The ability to accurately predict pressure drop and flow-boiling heat transfer for a given micro-channel geometry and operating conditions is of paramount importance to both the design and performance assessment of a micro-channel heat sink.