



## Nanoscale Flow: Advances, Modeling, and Applications (Hardback)

By -

Apple Academic Press Inc., Canada, 2014. Hardback. Book Condition: New. 242 x 164 mm. Language: English . Brand New Book. Understanding the physical properties and dynamical behavior of nanochannel flows has been of great interest in recent years and is important for the theoretical study of fluid dynamics and engineering applications in physics, chemistry, medicine, and electronics. The flows inside nanoscale pores are also important due to their highly beneficial drag and heat transfer properties. Nanoscale Flow: Advances, Modeling, and Applications presents the latest research in the multidisciplinary area of nanoscale flow. Featuring contributions from top inventors in industry, academia, and government, this comprehensive book: \* Highlights the current status of research on nucleate pool boiling heat transfer, flow boiling heat transfer, and critical heat flux (CHF) phenomena of nanofluids \* Describes two novel fractal models for pool boiling heat transfer of nanofluids, including subcooled pool boiling and nucleate pool boiling \* Explores thermal conductivity enhancement in nanofluids measured with a hot-wire calorimeter \* Discusses two-phase laminar mixed convection AL<sub>2</sub>O<sub>3</sub>-water nanofluid in an elliptic duct \* Explains the principles of molecular and omics imaging and spectroscopy techniques for cancer detection \* Analyzes fluid dynamics modeling of the tumor vasculature and...



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