



Transport Phenomena in Capillary-Porous Structures and Heat Pipes

Henry Smirnov

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Two-phase nano- and micro-thermal control device research is now proving relevant to a growing range of modern applications, including those in cryogenics, thermal engineering, MEMS, and aerospace engineering. Until now, researchers have lacked a definitive resource that provides a complete review of micro- and nano-scale evaporative heat and mass transfer in capillaries-porous structures.

Transport Phenomena in Capillary-Porous Structures and Heat Pipes covers the latest experimental research efforts in two-phase thermal control technology research and development. The book covers vaporization heat transfer and hydrodynamic processes occurring in capillary channels and porous structures—paying particular attention to the physical mechanisms of these phenomena. Extensive experimental research activities on unique film and photo materials of boiling inside slits, capillaries, and capillary-porous structures are reviewed.

By providing a complete record of research in the field, this volume gives researchers, engineers, and practitioners working on vaporization heat transfer and hydrodynamic processes the findings needed to avoid unnecessary experimental efforts, and will help further the development of this dynamic area of research.

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