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Microscale and Nanoscale Heat Transfer: Analysis, Design, and Applications features contributions from prominent researchers in the field of micro- and nanoscale heat transfer and associated technologies and offers a complete understanding of thermal transport in nano-materials and devices. Nanofluids can be used as working fluids in thermal systems; the thermal conductivity of heat transfer fluids can be increased by adding nanoparticles in fluids. This book provides details of experimental and theoretical investigations made on nanofluids for use in the biomechanical and aerospace industries. It examines the use of nanofluids in improving heat transfer rates, covers the numerical approaches for computational fluid dynamics (CFD) simulation of nanofluids, and reviews the experimental results of commonly used nanofluids dispersed in both spherical and nonspherical nanoparticles. It also focuses on current and developing applications of microscale and nanoscale convective heat transfer. In addition, the book covers a wide range of analysis that includes: Solid – liquid interface phonon transfer at the molecular level The validity of the continuum hypothesis and Fourier law in nanochannels Conventional methods of using molecular dynamics (MD) for heat transport problems The molecular dynamics approach to calculate interfacial thermal resistance (ITR) A review of experimental results in the field of heat pipes and two-phase flows in thermosyphons Microscale convective heat transfer with gaseous flow in ducts The application of the lattice Boltzmann method for thermal microflows A numerical method for resolving the problem of subcooled convective boiling flows in microchannel heat sinks Two-phase boiling flow and condensation heat transfer in mini/micro channels, and more Microscale and Nanoscale Heat Transfer: Analysis, Design, and Applications addresses the need for thermal packaging and management for use in cooling electronics and serves as a resource for researchers, academicians, engineers, and other professionals working in the area of heat transfer, microscale and nanoscale science and engineering, and related industries.

The Dutch scientist Hendrik Kramers (1894-1952) was one of the greatest theoretical physicists of the twentieth century--and one of a mere handful who have made major contributions across the whole field. Physicists know his name from, among other things, the Kramers dispersion theory, the Kramers-Heisenberg dispersion formulae, the Kramers opacity formula, the Kramers degeneracy, and the Kramers-Kronig relations. Yet few people know more than the name, or recognize the full depth and range of his contributions. In this book, D. ter Haar seeks to change that. He presents for the first time anywhere a comprehensive discussion of Kramers's scientific work, and reprints twelve of his most important papers. The author shows us that Kramers's remarkable and diverse work makes him at least the equal of such celebrated physicists as Fermi and Landau. He takes us through Kramers's groundbreaking research in such subjects as quantum theory, quantum electrodynamics, statistical mechanics, and solid-state physics. The papers he reprints include Kramers's derivation of the dispersion formulae that led to Heisenberg's matrix mechanics; his classic paper on the Brownian-motion approach to chemical reactions; a pioneering paper on polymers; and a paper on renormalization, a concept first introduced by Kramers and now one of the basic ideas of modern field theory. This book will change how we view the course of twentieth-century science and will show that Kramers was indeed one of the masters of modern physics.