



Nano/Microscale Heat Transfer (McGraw-Hill Nanoscience and Technology)

Zhuomin Zhang

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A THOROUGH EXPLANATION OF THE METHODOLOGIES USED FOR SOLVING HEAT TRANSFER PROBLEMS IN MICRO- AND NANOSYSTEMS.

Written by one of the field's pioneers, this highly practical, focused resource integrates the existing body of traditional knowledge with the most recent breakthroughs to offer the reader a solid foundation as well as working technical skills.

THE INFORMATION NEEDED TO ACCOUNT FOR THE SIZE EFFECT WHEN DESIGNING AND ANALYZING SYSTEMS AT THE NANOMETER SCALE, WITH COVERAGE OF

- Statistical Thermodynamics, Quantum Mechanics, Thermal Properties of Molecules, Kinetic Theory, and Micro/Nanofluidics
- Thermal Transport in Solid Micro/Nanostructures, Electron and Phonon Scattering, Size Effects, Quantum Conductance, Electronic Band Theory, Tunneling, Nonequilibrium Heat Conduction, and Analysis of Solid State Devices Such As Thermoelectric Refrigeration and Optoelectronics
- Nanoscale Thermal Radiation and Radiative Properties of Nanomaterials, Radiation Temperature and Entropy, Surface Electromagnetic Waves, and Near-Field Radiation for Energy Conversion Devices

IN THE NANOWORLD WHERE THE OLD AXIOMS OF THERMAL ANALYSIS MAY NOT APPLY, NANO/MICROSCALE HEAT TRANSFER IS AN ESSENTIAL RESEARCH AND LEARNING SOURCE.

Inside:

- Statistical Thermodynamics and Kinetic Theory • Thermal Properties of Solids • Thermal Transport in Solids Micro/Nanostructures • Micro/Nanoscale Thermal Radiation • Radiative Properties of Nanomaterials

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