



Advances in Numerical Heat Transfer, Volume 3 (Computational and Physical Processes in Mechanics and Thermal Science)

W. J. Minkowycz

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Definitive Treatment of the Numerical Simulation of Bioheat Transfer and Fluid Flow

Motivated by the upwelling of current interest in subjects critical to human health, **Advances in Numerical Heat Transfer, Volume 3** presents the latest information on bioheat and biofluid flow. Like its predecessors, this volume assembles a team of renowned international researchers who cover both fundamentals and applications. It explores ingenious modeling techniques and innovative numerical simulation for solving problems in biomedical engineering.

The text begins with the modeling of thermal transport by perfusion within the framework of the porous-media theory. It goes on to review other perfusion models, different forms of the bioheat equation for several thermal therapies, and thermal transport in individual blood vessels. The book then describes thermal methods of tumor detection and treatment as well as issues of blood heating and cooling during lengthy surgeries. It also discusses how the enhancement of heat conduction in tumor tissue by intruded nanoparticles improves the efficacy of thermal destruction of the tumor. The final chapters focus on whole-body thermal models, issues concerning the thermal treatment of cancer, and a case study on the thermal ablation of an enlarged prostate.

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