



Medical Applications of Computer Modelling (Advances in Computational Bioengineering)

T. B. Martonen

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Two-volume set consists of Medical Applications of Computer Modelling: Cardiovascular and Ocular Systems and Medical Applications of Computer Modelling: The Respiratory System.

These books address applications of computer modeling and fluid dynamics in biological systems. By design, a clear emphasis was placed on demonstrating the important roles that mathematical theory and computer technology can have when integrated into the medical arena. It should be emphasized that the series integrates general scientific concepts (e.g., principles of physics) with specific technical issues (e.g., surgical regimens in Volume 1 and drug delivery protocols in Volume 2).

The paired volumes were organized to serve in both academic and research environments. In the academic environment, the volumes may serve as the basis for either elective coursework in advanced undergraduate programs (e.g. mathematics, physics, engineering, biology, pre-medicine) or core curricula (i.e., required coursework) in graduate studies. Concerning the research arena, the volumes may serve as valuable sources of reference materials as well as providing technical examples of how the physical sciences can be applied to biological systems.

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