



Biofluid Mechanics

Jagannath Mazumdar

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Biofluid mechanics is the study of a certain class of biological problems from the viewpoint of fluid mechanics. Though biofluid mechanics does not involve any new development of the general principles of fluid mechanics, it does involve some new applications of its methods. Complex movements of fluids in the biological system demand for an analysis achievable only with professional fluid mechanics skills, and this volume aims to equip readers with the knowledge needed.

This second edition is an enlarged version of the book published in 1992. While retaining the general plan of the first edition, this new edition presents an engineering analysis of the cardiovascular system relevant to the treatment of cardiovascular diseases and combines engineering principles. Included in the material of this volume are: the emerging interdisciplinary field of tissue engineering, which deals with the principles of engineering and life sciences toward the development of biological substitutes that restore, maintain and improve tissue function, and cellular and molecular bioengineering, which involves the mechanical, electrical and chemical processes of the human cell and tries to explain how cellular behaviour arises from molecular-level interactions.

The added material in this edition is specifically designed for biomedical engineering professionals and students, and looks at the important applications of biofluid mechanics from an engineering perspective.

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