

Biofluid Mechanics The Human Circulation

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Biofluid mechanics focuses on macrocirculation, microcirculation, and specialty circulation that flows through kidney, lungs, eyes, joints, diarthroses, and splanchnic circulation that are important in human body. It is necessary to understand fluid dynamic factors such as velocity distribution, pressure, flow rate ratio, flow behavior, velocity gradients, and stress on the wall and on blood cells to design medical device for recording and diagnosis purpose.

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E-BOOK DESCRIPTION. Designed for senior undergraduate or first-year graduate students in biomedical engineering, Biofluid Mechanics: The Human Circulation, Second Edition teaches students how fluid mechanics is applied to the study of the human circulatory system. Reflecting changes in the field since the publication of its predecessor, this second edition has been extensively revised and updated.

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Topical emphasis is placed on fluid motion in the human body, and some aspects of the fluid mechanics of plants. The human body is a complex system that requires materials such as air, water, minerals, and nutrients for survival and function. Upon intake, these materials have to be transported and distributed around the body as required.

Introduction to Biofluid Mechanics - Elsevier

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Part medicine, part biology, and part engineering, biomedicine and bioengineering are by their nature hybrid disciplines. To make these disciplines work, engineers need to speak "medicine," and clinicians and scientists need to speak "engineering." Building a bridge between these two worlds, *Biofluid Mechanics: The Human Circulation* integrates fluid

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For humans, this includes obtaining and transporting oxygen, maintaining body temperature and regulating homeostasis. Biofluid mechanics is not only concerned with the cardiovascular system and cardiovascular diseases but also lung disease, which is a common area of interest for biofluid mechanics engineers.

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