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Biofluid Mechanics: The Human Circulation by Krishnan B ...
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It provides a systematic approach/ It covers fluid mechanics: steady flow, unsteady flow, viscoelastic properties of tissues, Windkessel and more sophisticated models of the circulation. It provides clear examples and figures from the in-vitro and in-vivo data. The section of valve physiology and pathophysiology was excellent.

Biofluid Mechanics: The Human Circulation 1, Chandran ...
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.

Biofluid Mechanics - an overview | ScienceDirect Topics
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This chapter introduces biofluid mechanics. The human body is a complex system that requires materials such as air, water, minerals, and nutrients for survival and function. The associated bio transport and distribution processes involve interactions with membranes, cells, tissues, and organs comprising the body.

Fluid Mechanics | ScienceDirect
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.

Introduction to Biofluid Mechanics - Elsevier
Biofluid Mechanics: The Human Circulation (second edition) Keefe B. Manning Pages 351-352. ReviewPaper. Reducing In-Stent Restenosis Through Novel Stent Flow Field Augmentation. Eoin A. Murphy, Fergal J. Boyle Pages 353-373. OriginalPaper.

Cardiovascular Engineering and Technology, Volume 3, Issue ...
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Biofluid Mechanics: The Human Circulation - Krishnan B ...
This chapter describes the aspects of biofluid mechanics in the human organs. In the beginning, the chapter introduces the heart and cardiovascular system. Then, it explains the cardiac cycles, heart valves, blood flow through these valves and the coronary circulation.

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Biofluid mechanics : the human circulation | Chandran, K ...

The blood flow in cardiovascular system - Biofluid Mechanics The human body is made up of billions of cells, which are the elementary units like the bricks of a building, endowed with their own life but united in many aggregations (the tissues), which are gradually more complex to form the whole of the human organism.

The blood flow in cardiovascular system - Biofluid Mechanics
In the human circulatory system, α ranges from O (10 −3) in the capillaries to nearly 20 in the ascending aorta at rest (Caro et al. 1978; Chandran, Rittgers & Yoganathan 2012). The values of α in...

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