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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**

Biofluid Mechanics: The Human Circulation, Second Edition: Krishnan B.

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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.

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## **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

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353-373. OriginalPaper.

**Cardiovascular Engineering and  
Technology, Volume 3, Issue ...**

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focuses on blood...

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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,

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heart valves, blood flow through these valves and the coronary circulation.

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focuses on blood rheology, steady and unsteady flow models in the arterial circulation, and fluid mechanics through native heart valves.

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

The blood flow in cardiovascular system  
- Biofluid Mechanics The human body is

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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**

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In the human circulatory system,  $\alpha$  ranges from 0 ( $10^{-3}$ ) in the capillaries to nearly 20 in the ascending aorta at rest (Caro et al. 1978; Chandran, Rittgers & Yoganathan 2012). The values of  $\alpha$  in...

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