



# Biofluid Mechanics: The Human Circulation

*Krishnan B. Chandran, Stanley E. Rittgers, Ajit P. Yoganathan*

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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 and solid mechanics relationships and cardiovascular physiology.

The book focuses on blood rheology, steady and unsteady flow models in the arterial circulation, and fluid mechanics through native heart valves. The authors delineate the relationship between fluid mechanics and the development of arterial diseases in the coronary, carotid, and ileo-femoral arteries. They go on to elucidate methods used to evaluate the design of circulatory implants such as artificial heart valves, stents, and vascular grafts. The book covers design requirements for the development of an ideal artificial valve, including a discussion of the currently available mechanical and bioprosthetic valves. It concludes with a detailed description of common fluid mechanical measurements used for diagnosing arterial and valvular diseases as well as research studies that examine the possible interactions between hemodynamics and arterial disease.

Drawing on a wide range of material, the authors cover both theory and practical applications. The book breaks down fluid mechanics into key definitions and specific properties and then uses these pieces to construct a solid foundation for analyzing biofluid mechanics in both normal and diseased conditions.

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