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veins. The heart is controlled by a single electrical impulse and both sides of the heart act syn-chronously. Electrical activity stimulates the heart muscle (myocardium) of the chambers of the heart to make them contract. This is immediately followed by mechanical contraction of the heart. Both atria contract at the same time.

Introduction to Biofluid Mechanics - Elsevier

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Waite, Biofluid Mechanics in Cardiovascular Systems, McGraw-Hill , 2006. A general fluid mechanics textbook will be useful (White, Cimbala) Assessment Strategies

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Applied Biofluid Mechanics features a solid grasp of the role of fluid mechanics in the human circulatory system that will help in the research and design of new medical instruments, equipment, and procedures.

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Biofluid Mechanics The Human Circulation Solutions Manual

Biofluid Mechanics in Cardiovascular Systems. Biofluid Mechanics in Cardiovascular Systems Lee Waite Rose-Hulman Institute of Technology Terre Haute, Indiana McGraw-Hill New York Chicago San Francisco Lisbon London Madrid Mexico City Milan New Delhi San Juan Seoul Singapore Sydney Toronto.

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Biofluid Mechanics - 2nd Edition - Elsevier

] Lakshmi P. Dasi, H.A. Simon, and A. P. Yoganathan, "Artificial heart valve fluid mechanics," invited review in special series: New Frontiers in Biomedical Engineering, Journal of Clinical and Experimental Pharmacology and Physiology, Vol 36 (2), pp. 225-237. (2009).

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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.

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Biofluid Mechanics - 1st Edition - Elsevier

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Biological fluid mechanics, or biofluid mechanics, is the study of both gas and liquid fluid flows in or around biological organisms. An often studied liquid biofluids problem is that of blood flow in the human cardiovascular system.

Biomechanics - Wikipedia

By the end of the course, students will be able to: 1) Identify, recognize and define biofluid mechanics concepts in relation to the cardiovascular system. 2) Model the flow and fluid-structure interactions in cardiovascular structures. 3) Apply this knowledge to analyze clinical research problems.

Cardiovascular Biofluid Mechanics | Wright State University

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Biofluid dynamics - Wikipedia

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