

Biofluid Dynamics Of Human Body Systems

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Biofluid dynamics may be considered as the discipline of biological engineering or biomedical engineering in which the fundamental principles of fluid dynamics are used to explain the mechanisms of biological flows and their interrelationships with physiological processes, in health and in diseases/disorder. It can be considered as the conjuncture of mechanical engineering and biological engineering. It spans from cells to organs, covering diverse aspects of the functionality of systemic physiolo

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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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Abstract. In the field of fluid flow within the human body, blood flow in the systemic circulation has been the main focus since the recognition by William Harvey that blood was in fact in continuous circulation and carried by a network of blood vessels. But beyond the systemic circulation, other fluids and other fluid flow phenomena pervade the body so totally that it would be hard to imagine a bodily function of any kind that does not involve fluids or fluid flow.

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MECH433 BIOFLUIDS 3 Students will individually perform a biofluid dynamics design project from a list of possibilities provided by the instructor. Examples include: redesign of ventricular assisted device, design of a graft, redesign of an artificial heart valve.

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