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16.1 INTRODUCTION This chapter is intended to be of an introductory nature to the vast field of biofluid mechanics. Here, we shall consider the ideas and principles of the preceding chapters in the context of fluid motion in biological systems. Topical emphasis is placed on fluid motion

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Biofluid Mechanics 2. Fluid mechanics • Mechanics is "... the application of the laws of force and motion. • fluid mechanics is the application of the laws of force and motion to fluids • There are two branches of fluid mechanics: 1. Fluid Statics or hydrostatics is the study of fluids at rest.

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Biofluid Mechanics: An Introduction to Fluid Mechanics, Macrocirculation, and Microcirculation, Third Edition shows how fluid mechanics principles can be applied not only to blood circulation, but also to air flow through the lungs, joint lubrication, intraocular fluid movement, renal transport, and other specialty circulations. This new edition contains new homework problems and worked examples, including MATLAB-based examples.

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This chapter introduces the fluid mechanics principles. The chapter starts with the history of body fluid and biofluid mechanics since 2500 bc. Then, it reviews the scope of biofluid mechanics and its applications. The chapter clarifies some important aspects, such as dimensions, units and dimensional analysis in engineering equations.

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