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Biofluid Mechanics, Second Edition: An Introduction to Fluid Mechanics, Macrocirculation, and Microcirculation Academic Press David Rubenstein Ph.D. Biomedical Engineering Stony Brook University , Wei Yin Ph.D. Biomedical Engineering State University of New York at Stony Brook , Mary D. Frame Ph.D. University of Missouri Columbia

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BMES 444 Biofluid Mechanics Drexel University 1 Introduction to Fluids The objective of this course is to provide a solid foundation in the principles of fluid mechanics, and to demonstrate how fluid mechanics can be applied to variety of biological fluids (or biofluids) and physiological situations. Fluid mechanics is the study of forces acting on fluids. . It has two major subdisciplines ...

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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 is the study of a certain class of biological problems from a fluid mechanics point of view. Biofluid mechanics does not involve any new development of the general principles of fluid mechanics but it does involve some new applications of the method of fluid mechanics. Complex movements of fluids in the biological system demand for their analysis professional fluid mechanics skills. Contents: Introduction; Circulatory Biofluid Mechanics