Biofluid Mechanics: Principles and Applications

Ali Ostadfar
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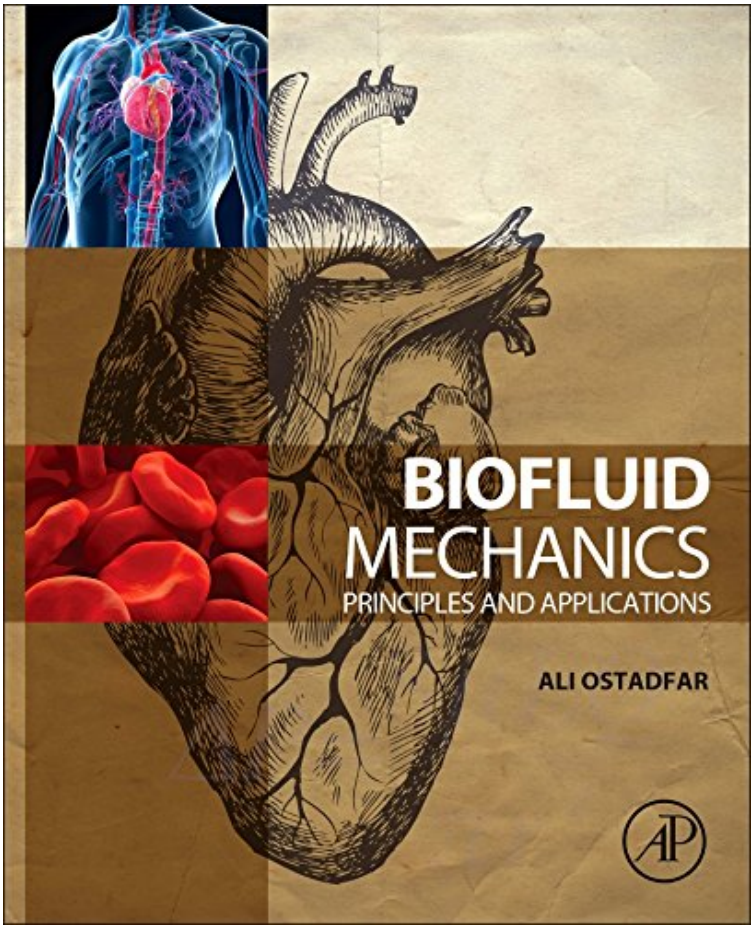

#6455710 in Books 2016-06-29 2016-06-15Original language:EnglishPDF # 1 9.25 x .87 x 7.52l, 1.82 #File Name: 0128024089382 pages | File size: 23.Mb

Ali Ostadfar : Biofluid Mechanics: Principles and Applications before purchasing it in order to gage whether or not it would be worth my time, and all praised Biofluid Mechanics: Principles and Applications:

Biofluid Mechanics is a throrough reference to the entire field. Written with engineers and clinicians in mind, this book covers physiology and the engineering aspects of biofluids. Effectively bridging the gap between engineers and clinicians knowledge bases, the text provides information on physiology for engineers and information on the engineering side of biofluid mechanics for clinicians. Clinical applications of fluid mechanics principles to fluid flows throughout the body are included in each chapter. All engineering concepts and equations are developed within a biological context, together with computational simulation examples as well. Content covered includes; engineering models of human blood, blood rheology in the circulation system and problems in human organs and their side effects on biomechanics of the cardiovascular system. The information contained in this book on biofluid principles is core to

bioengineering and medical sciences.Comprehensive coverage of the entire biofluid mechanics subject provides you with an all in one reference, eliminating the need to collate information from different sourcesEach chapter covers principles, needs, problems, and solutions in order to help you identify potential problems and employ solutionsProvides a novel breakdown of fluid flow by organ system, and a quick and focused reference for clinicians

About the AuthorOstadfar has over 20 years of experience in engineering, and was a co-founder of the company PRI. He has contributed numerous articles to journal publications, and obtained his PhD in Biomedical Engineering from Simon Fraser University. His main research interest is biofluid mechanics, specifically whole blood, blood cells and other bio components of the cardiovascular system.