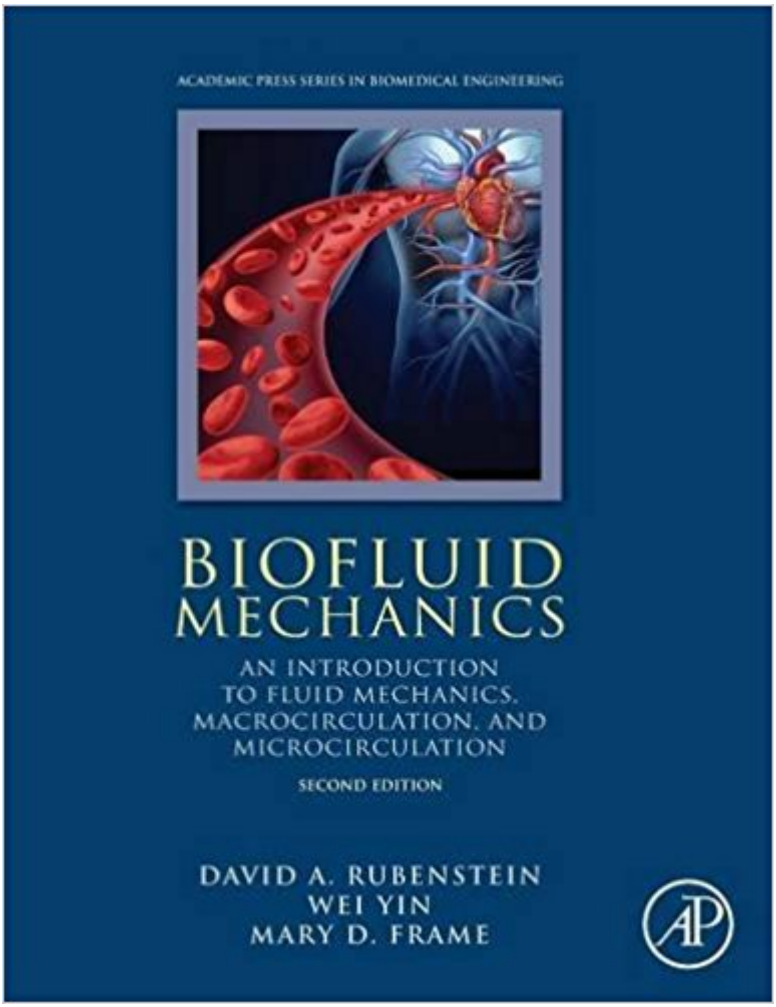
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Biofluid Mechanics, Second Edition: An Introduction To Fluid Mechanics, Macrocirculation, And Microcirculation (Biomedical Engineering)




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Synopsis

Biofluid Mechanics: An Introduction to Fluid Mechanics, Macrocirculation, and Microcirculation 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 among other specialty circulations. This new second edition increases the breadth and depth of the original by expanding chapters to cover additional biofluid mechanics principles, disease criteria, and medical management of disease, with supporting discussions of the relevance and importance of current research. Calculations related both to the disease and the material covered in the chapter are also now provided.Uses language and math that is appropriate and conducive for undergraduate learning, containing many worked examples and end-of-chapter problemsDevelops all engineering concepts and equations within a biological contextCovers topics in the traditional biofluids curriculum, and addresses other systems in the body that can be described by biofluid mechanics principlesDiscusses clinical applications throughout the book, providing practical applications for the concepts discussedNEW: Additional worked examples with a stronger connection to relevant disease conditions and experimental techniquesNEW: Improved pedagogy, with more end-of-chapter problems, images, tables, and headings, to better facilitate learning and comprehension of the material

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"...a systematic teaching and learning tool for students, as well as an effective educational structure to aid in the learning of biofluid mechanics...Every chapter of this textbook concludes with a summary that reiterates the salient points and key equations." --Zentralblatt MATH

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