Biomechanics: Mechanical Properties of Living Tissues, Second Edition

Y. C. Fung
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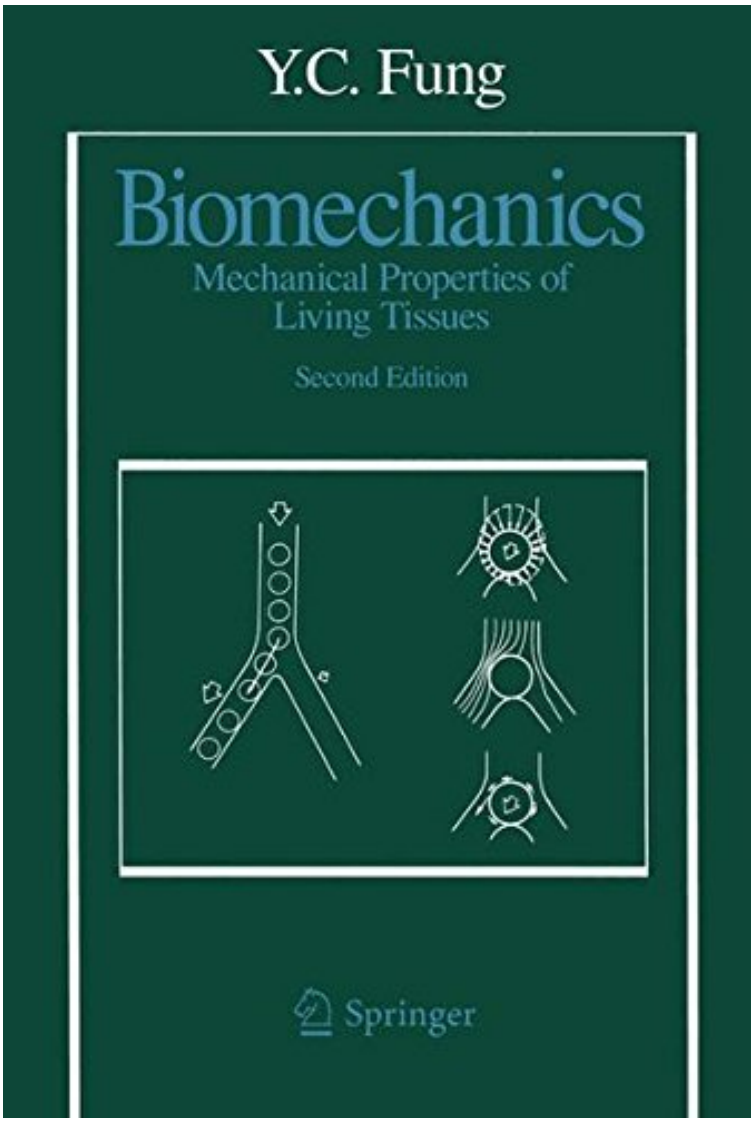

#601523 in Books 1993-06-18Original language:EnglishPDF # 1 9.21 x 1.38 x 6.14l, 2.21 #File Name: 0387979476568 pages | File size: 48.Mb

Y. C. Fung : Biomechanics: Mechanical Properties of Living Tissues, Second Edition before purchasing it in order to gage whether or not it would be worth my time, and all praised Biomechanics: Mechanical Properties of Living Tissues, Second Edition:

3 of 3 people found the following review helpful. Good Continuum Mechanical Treatment of BiomechanicsBy AMFI bought this book while in a course on the mechanics of complex fluids. I needed a book, dealing with blood rheology

in a continuum mechanical approach. My professor suggested that I pick up this volume.I found the book to be very readable. The writing style is clear and succinct. Each chapter contains mathematical, as well as historical, treatment of the topic. Although I bought this book for the chapters on blood rheology, I continued reading through the book for my own amusement.I bought this book used, for around $40. At that price, this book was a good investment.7 of 8 people found the following review helpful. The BibleBy Ruben AgreloProfessor Fung is considered the father of bioengineering and founder of biomechanics.Winner of Timoshenko and Poiseulle medals he's an Engineer that started to study physiology when his mother was diagnosed with glaucoma in 1957.I am trained as a Medical Doctor and Molecular Biologist but being the son of a Professor of Civil Engineering made me understand the importance that structural engineering has in Medicine and Biology.Now I am interested in nuclear matrix and lamins(as they are connected to aging phenomena) so I am training myself in Biomechanics, and I found that this book is the strating point.I recommend this book to all Structural Engineers,Biomedical Engineers, MDs and Cellular and Molecular Biologists that want to understand this field.0 of 1 people found the following review helpful. First experience with kindle book, very nice!By M. YinHowever, I think I will prefer hard copy of any academic books in future since it will be easier to have a quick browse and find specific sections.

The objective of this book remains the same as that stated in the first edition: to present a comprehensive perspective of biomechanics from the stand point of bioengineering, physiology, and medical science, and to develop mechanics through a sequence of problems and examples. My three-volume set of Bio mechanics has been completed. They are entitled: Biomechanics: Mechanical Properties of Living Tissues; Biodynamics: Circulation; and Biomechanics: Motion, Flow, Stress, and Growth; and this is the first volume. The mechanics prerequisite for all three volumes remains at the level of my book A First Course in Continuum Mechanics (3rd edition, Prentice-Hall, Inc. , 1993). In the decade of the 1980s the field of Biomechanics expanded tremen dously. New advances have been made in all fronts. Those that affect the basic understanding of the mechanical properties of living tissues are described in detail in this revision. The references are brought up to date.