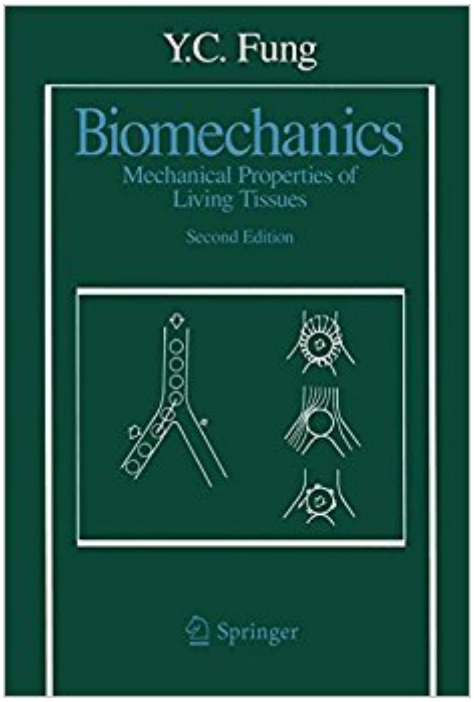
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Biomechanics: Mechanical Properties Of Living Tissues, Second Edition



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Synopsis

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 BioÃ Â- 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 tremenÃ Â- 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.

Book Information

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Customer Reviews

I 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.

Professor 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.

However, 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.

I purchased this for my cousin for overseas. She couldn’t find it there.

The book condition is great. Thanks

I’ve purchased a LOT of used textbooks online, and I’m used to seeing highlighting and notes in the margins even when the reported condition is "like new" or "excellent." Imagine my surprise and glee when this book came earlier than predicted, with no cover/binding damage and no notes inside, whatsoever! Good experience. Restored my faith.

What I would say is not a comprehensive review of what the great book talks, but just telling you a truth: if you have engineering and mathamatics background and wanna combine your background to do research in physiology, Fung’s book is absolutely a must-buy. This book is profound, but it is actually rooted in nearly all fields of biomechanics research. It is a conclusion for biomechanics research till 1980’s; also this book is a truly great reference for all current researchers who are interested in biomedical research in point of view of a mathamatician and engineer.

Fung takes a continuum mechanics approach to the principles that underly the human body. All of the ideas in the text are backed up with solid research and easy to understand equations, as well as text descriptions. Fung is also responsible for researching many of the ideas of biomechanics, and so, the text takes on a personal view not found in other books. All in all, the best book out there for

introductory biomechanics, but one that you will use for the rest of your life.

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