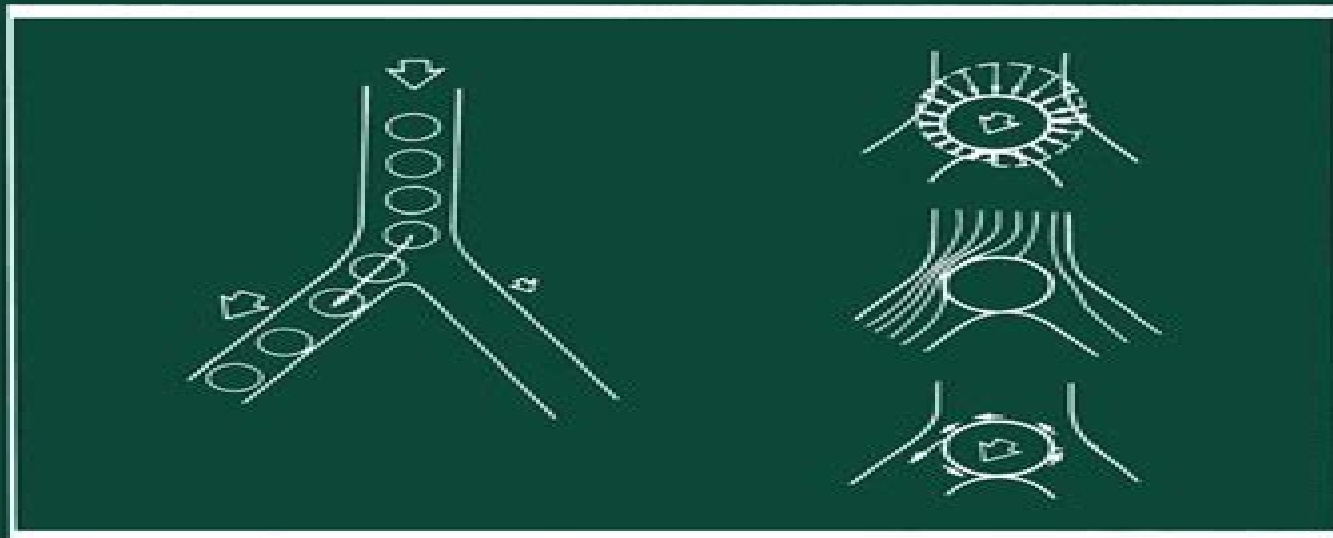


Y.C. Fung

Biomechanics

Mechanical Properties of
Living Tissues

Second Edition



 Springer

Biomechanics Mechanical Properties Of Living Tissues

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Biomechanics Mechanical Properties Of Living Tissues:

Biomechanics Y. C. Fung, 2013-06-29 The motivation for writing a series of books on biomechanics is to bring this rapidly developing subject to students of bioengineering physiology and mechanics. In the last decade biomechanics has become a recognized discipline offered in virtually all universities. Yet there is no adequate textbook for instruction; neither is there a treatise with sufficiently broad coverage. A few books bearing the title of biomechanics are too elementary; others are too specialized. I have long felt a need for a set of books that will inform students of the physiological and medical applications of biomechanics and at the same time develop their training in mechanics. We cannot assume that all students come to biomechanics already fully trained in fluid and solid mechanics; their knowledge in these subjects has to be developed as the course proceeds. The scheme adopted in the present series is as follows: First, some basic training in mechanics to a level about equivalent to the first seven chapters of the author's *A First Course in Continuum Mechanics* (Prentice Hall Inc 1977) is assumed. We then present some essential parts of biomechanics from the point of view of bioengineering physiology and medical applications. In the meantime, mechanics is developed through a sequence of problems and examples. The main text reads like physiology, while the exercises are planned like a mechanics textbook. The instructor may fill a dual role, teaching an essential branch of life science and gradually developing the student's knowledge in mechanics. Biomechanics Y. C.

Fung, 2013-03-14 The objective of this book remains the same as that stated in the first edition: to present a comprehensive perspective of biomechanics from the standpoint 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 tremendously. 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.

Biomechanics Y. C. Fung, 2014-01-15 **Biomechanics** Y. C. Fung, 2013-03-20 Biomechanics aims to explain the mechanics of life and living. From molecules to organisms, everything must obey the laws of mechanics. Clarification of mechanics clarifies many things. Biomechanics helps us to appreciate life. It sensitizes us to observe nature. It is a tool for design and invention of devices to improve the quality of life. It is a useful tool, a simple tool, a valuable tool, an unavoidable tool. It is a necessary part of biology and engineering. The method of biomechanics is the method of engineering, which consists of observation, experimentation, theorization, validation, and application. To understand any object, we must know its geometry and materials of construction, the mechanical properties of the materials involved, the governing natural laws, the mathematical formulation of specific problems and their solutions, and the results of validation. Once understood, one goes on

to develop applications In my plan to present an outline of biomechanics I followed the engineering approach and used three volumes In the first volume *Biomechanics Mechanical Properties of Living Tissues* the geometrical structure and the rheological properties of various materials tissues and organs are presented In the second volume *Biodynamics Circulation* the physiology of blood circulation is analyzed by the engineering method **Biomechanics** Yuan-cheng Fung, 1981 The motivation for writing a series of books on biomechanics is to bring this rapidly developing subject to students of bioengineering physiology and mechanics In the last decade biomechanics has become a recognized discipline offered in virtually all universities Yet there is no adequate textbook for instruction neither is there a treatise with sufficiently broad coverage A few books bearing the title of biomechanics are too elementary others are too specialized I have long felt a need for a set of books that will inform students of the physiological and medical applications of biomechanics and at the same time develop their training in mechanics We cannot assume that all students come to biomechanics already fully trained in fluid and solid mechanics their knowledge in these subjects has to be developed as the course proceeds The scheme adopted in the present series is as follows First some basic training in mechanics to a level about equivalent to the first seven chapters of the author's *A First Course in Continuum Mechanics* Prentice Hall Inc 1977 is assumed We then present some essential parts of biomechanics from the point of view of bioengineering physiology and medical applications In the meantime mechanics is developed through a sequence of problems and examples The main text reads like physiology while the exercises are planned like a mechanics textbook The instructor may fill a dual role teaching an essential branch of life science and gradually developing the student's knowledge in mechanics *Biomechanics* Fung Yuan-Cheng, 2009

Biomechanics - Mechanical Properties Of Living Tissues, 2E Fung, 2007-10-01 *Tissue Mechanics* Stephen C. Cowin, Stephen B. Doty, 2007-12-22 I was delighted when I learned in the fall of 2005 that Steve Cowin was working on a textbook in biomechanics Steve and I were in the same department at Tulane University in the 1970s and under his influence I learned the beauty and power of continuum mechanics as a means to better understand the musculoskeletal system When I began teaching courses in biomechanics during that decade it was natural to teach the material from a continuum mechanics perspective Over the years I have used a variety of continuum mechanics texts but for the most part I have had to find the biomedical examples I used directly from the research literature I have now had a chance to review a draft of *Tissue Mechanics* by Cowin and Doty and it exceeds my high expectations The material includes a rigorous and comprehensive introduction to continuum mechanics oriented toward biomechanics Indeed all of the foundation topics for continuum models of biological materials are covered This material is illustrated through applications to the hard and soft tissues of the human body Steve Cowin is now one of the leading researchers in the mechanics of bone so one would expect the chapters on bone tissue and bone tissue adaptation to be of a very high order But the presentation on collagen and cartilage mechanics is also excellent Their presentation of finite deformation mechanics and its application to tendons and ligaments is one of the most

accessible in the literature **Springer Handbook of Experimental Solid Mechanics** William N. Sharpe, Jr., William N. Sharpe, 2008-12-04 The Springer Handbook of Experimental Solid Mechanics documents both the traditional techniques as well as the new methods for experimental studies of materials components and structures The emergence of new materials and new disciplines together with the escalating use of on and off line computers for rapid data processing and the combined use of experimental and numerical techniques have greatly expanded the capabilities of experimental mechanics New exciting topics are included on biological materials MEMS and NEMS nanoindentation digital photomechanics photoacoustic characterization and atomic force microscopy in experimental solid mechanics Presenting complete instructions to various areas of experimental solid mechanics guidance to detailed expositions in important references and a description of state of the art applications in important technical areas this thoroughly revised and updated edition is an excellent reference to a widespread academic industrial and professional engineering audience **Mechanics of Living Tissues** Cédric Laurent, Claude Verdier, 2024-07-16 Despite their many common features mechanical behavior multi scale structure evolutionary and living characteristics etc the tissues that make up the human body each have specific characteristics linked to their function which require the development of dedicated experimental theoretical and numerical methods Mechanics of Living Tissues brings together the work of a number of experts to provide an overview of the most recent approaches developed to study the biomechanical behavior of these soft tissues in order to understand their structure and apparent behavior Specific tissues are analyzed across the chapters with the aim of developing solutions that address the clinical problems encountered Conclusions are then drawn regarding future methods that will improve the current state of knowledge of the behavior of these living tissues in particular with a view to predicting the effect of a pathology or medical procedure on their apparent properties

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