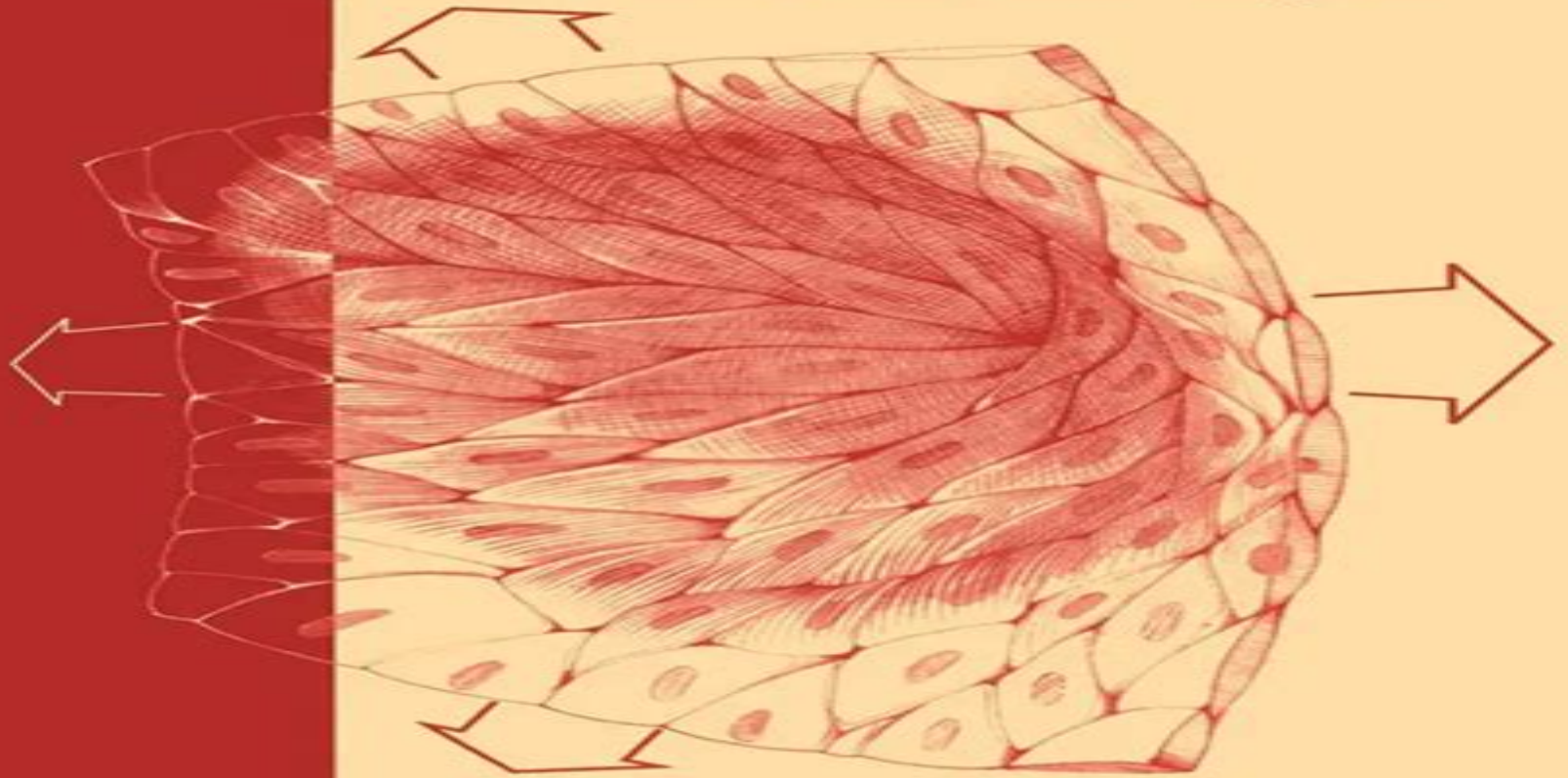


Cardiovascular Solid Mechanics Cells, Tissues, and Organs



Jay D. Humphrey

Cardiovascular Solid Mechanics

Lingjun Ying



Cardiovascular Solid Mechanics:

Cardiovascular Solid Mechanics Jay D. Humphrey, 2013-06-29 The vitality of the cardiovascular system which consists of the heart vasculature and blood depends on its response to a host of complex stimuli including biological chemical electrical mechanical and thermal The focus of this book however is on the response of the heart and arteries to mechanical loads from the perspective of nonlinear solid mechanics Through my own research in this field I have come to realize that studying the complex responses of cardiovascular cells tissues and organs necessarily requires a combined theoretical experimental and computational approach Theory is needed to guide the performance and interpretation of experiments as well as to synthesize the results experiment is needed to study the responses of the system to well controlled loads and to test candidate hypotheses and theories and due to the geometric and material nonlinearities inherent to cardiovascular mechanics computation is needed to analyze data as well as to solve boundary and initial value problems that correspond to either experimental or in vivo conditions One of the primary goals of this book is to introduce together basic analytical experimental and computational methods and to illustrate how these methods can and must be integrated to gain a more complete understanding of the biomechanics of the heart and vasculature Despite the focus on cardiovascular mechanics the fundamental methods indeed many of the specific results are generally applicable to many different soft tissues

Cardiovascular Solid Mechanics Jay D. Humphrey, 2014-01-15 **Special Issue: Cardiovascular Solid Mechanics**
Jeffrey W. Holmes, 2012 **Computational Cardiovascular Mechanics** Julius M. Guccione, Ghassan Kassab, Mark B. Ratcliffe, 2010-01-08 Computational Cardiovascular Mechanics provides a cohesive guide to creating mathematical models for the mechanics of diseased hearts to simulate the effects of current treatments for heart failure Clearly organized in a two part structure this volume discusses various areas of computational modeling of cardiovascular mechanics finite element modeling of ventricular mechanics fluid dynamics in addition to a description and analysis of the current applications used solid FE modeling CFD Edited by experts in the field researchers involved with biomedical and mechanical engineering will find Computational Cardiovascular Mechanics a valuable reference *Cardiovascular Mechanics* Michel Labrosse, 2018-09-13 The objective of this book is to illustrate in specific detail how cardiovascular mechanics stands as a common pillar supporting such different clinical successes as drugs for high blood pressure prosthetic heart valves and coronary artery bypass grafting among others This information is conveyed through a comprehensive treatment of the overarching principles and theories that are behind mechanobiological processes aortic and arterial mechanics atherosclerosis blood and microcirculation heart valve mechanics as well as medical devices and drugs Examines all major theoretical and practical aspects of mechanical forces related to the cardiovascular system Discusses a unique coverage of mechanical changes related to an aging cardiovascular system Provides an overview of experimental methods in cardiovascular mechanics Written by world class researchers from Canada the US and EU Extensive references are provided

at the end of each chapter to enhance further study Michel R Labrosse is the founder of the Cardiovascular Mechanics Laboratory at the University of Ottawa where he is a full professor within the Department of Mechanical Engineering He has been an active researcher in academia along with being heavily associated with the University of Ottawa Heart Institute He has authored or co authored over 90 refereed communications and supervised or co supervised over 40 graduate students and post docs

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

An Introduction to Biomechanics Jay D. Humphrey, Sherry L. O'Rourke, 2015-07-25 This book covers the fundamentals of biomechanics Topics include bio solids biofluids stress balance and equilibrium Students are encouraged to contextualize principles and exercises within a big picture of biomechanics This is an ideal book for undergraduate students with interests in biomedical engineering

European Solid Mechanics Conference, 1994 **Cardiovascular Biomechanics** K. B. Chandran, 1992 This textbook is based on the author's one semester course for advanced undergraduates and beginning graduate students in the area of biosolid biofluid mechanics and biomaterials Coverage includes an introduction to cardiovascular physiology and chapters on the rheology of blood mechanics of blood vessels steady and unsteady flow models measurements in circulation prosthetic vascular implants cardiac imaging myocardial mechanics and ventricular assist devices and total artificial hearts Annotation copyrighted by Book News Inc Portland OR

Cardiovascular and Pulmonary Dynamics Michel-Yves Jaffrin, 1978 *The Mechanics of Transcatheter and Surgical Heart Valves* Lakshmi Prasad Dasi, Hoda Hatoum, 2020-09-15 The Mechanics of Transcatheter and Surgical Heart Valves A Guide for Engineers and Clinicians focuses on the fundamental principles of heart valve mechanics providing a detailed picture of the pros and cons of current devices in the context of their biomechanics biomaterials patient complications and their regulatory and fabrication aspects The book covers methods and applications that will help readers innovate and design new cardiovascular technology It is ideal for designers testers and manufacturers anyone working in the biomaterials industry on coatings or fabrication materials or those researching mechanics and heart valve biology Covers fluid mechanics solid mechanics and biomaterials concepts Provides the only book

on the market to offer this depth of information on prosthetic heart valves Includes flow visualization videos and high speed valve imaging videos

Cardiovascular Failure Edmundo I. C. Fischer,Alberto Juffé Stein,Jorge M. Balaguer,2005
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Cardiovascular Dynamics and Models Philippe Brun,Richard S. Chadwick,Bernard I. Lévy,National Institutes of Health (U.S.),Institut national de la santé et de la recherche médicale (France),1988

1991 Advances in Bioengineering American Society of Mechanical Engineers. Winter Annual Meeting,1991

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
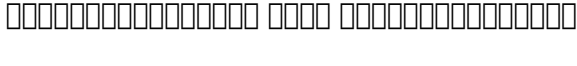
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