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Editors

Computational Cardiovascular Mechanics

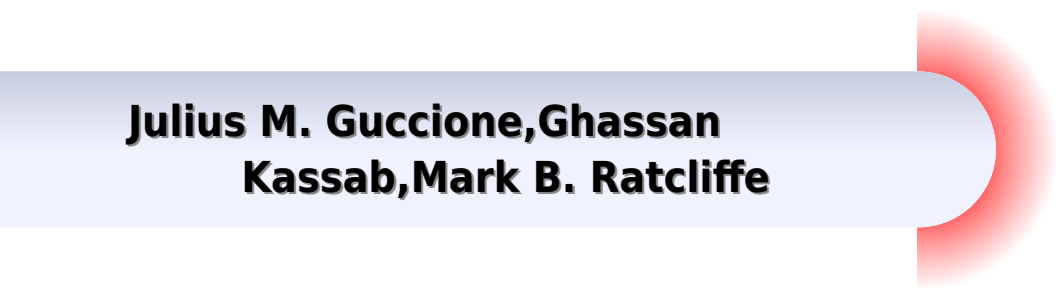
Modeling and Applications
in Heart Failure

 Springer

Computational Cardiovascular Mechanics

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**Julius M. Guccione, Ghassan
Kassab, Mark B. Ratcliffe**



Computational Cardiovascular Mechanics Computational Cardiovascular Mechanics:

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.

Clinical Application of Computational Mechanics to the Cardiovascular System T. Yamaguchi, 2013-06-29 Vascular diseases, particularly atherosclerosis, are the most frequent and critical underlying fatal disorders in the industrialized world. Cardiovascular deaths are the leading cause of death in the Western world. Although cancer or malignant neoplasms recently have topped the list of causes of deaths in Japan, cardiovascular and cerebrovascular diseases bring about more deaths than cancer if they are reclassified into a unified category of diseases of the vascular system. The National Cardiovascular Center was established by the Ministry of Health and Welfare of Japan to combat cardiovascular and cerebrovascular diseases. Since the Center was opened, we have continued to support basic and clinical studies of cardiovascular and cerebrovascular diseases, within as well as outside the Center. Clinical studies that we have supported in modern diagnostic and therapeutic measures against cardiovascular and cerebrovascular diseases have made remarkable advances in recent years, especially in medical imaging technology including CT and MRI, and in interventional measures including balloon angioplasty and other catheter-based treatments. We are proud of the significant improvement in the overall survival rate and the quality of life of patients suffering from vascular disorders. However, there are still many essential difficulties remaining in the diagnosis and treatment of vascular disorders. Such difficulties necessitate further fundamental studies, not only from the practical aspect but also from the integrated perspectives of medicine, biology, and engineering.

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

Models and Methods in Computational Vascular and Cardiovascular Mechanics, 2009

Biomechanics Manuel Doblare, Jose Merodio, 2015-12-30 Biomechanics is a component of Encyclopedia of Physical Sciences Engineering and Technology Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias The enormous progress in the field of health sciences that has been achieved in the 19th and 20th centuries would have not been possible without the enabling interaction and support of sophisticated technologies that progressively gave rise to a new interdisciplinary field named alternatively as bioengineering or biomedical engineering Although both terms are synonymous the latter is less general since it limits the field of application to medicine and clinical practice while the former covers semantically the whole field of interaction between life sciences and engineering thus including also applications in biology biochemistry or the many omics We use in this book the second with more general meaning recalling the very important relation between fundamental science and engineering And this also recognizes the tremendous economic and social impacts of direct application of engineering in medicine that maintains the health industry as one with the fastest growth in the world economy Biomechanics in particular aims to explain and predict the mechanics of the different components of living beings from molecules to organisms as well as to design manufacture and use of any artificial device that interacts with the mechanics of living beings It helps therefore to understand how living systems move to characterize the interaction between forces and deformation along all spatial scales to analyze the interaction between structural behavior and microstructure with the very important particularity of dealing with adaptive systems able to adapt their internal structure size and geometry to the particular mechanical environment in which they develop their activity to understand and predict alterations in the mechanical function due to injuries diseases or pathologies and finally to propose methods of artificial intervention for functional diagnosis or recovery Biomechanics is today a very highly interdisciplinary subject that attracts the attention of engineers mathematicians physicists chemists material specialists biologists medical doctors etc They work in many different topics from a purely scientific objective to industrial applications and with an increasing arsenal of sophisticated modeling and experimental tools but always with the final objectives of better understanding the fundamentals of life and improve the quality of life of human beings One purpose in this volume has been to present an overview of some of these many possible subjects in a self contained way for a general audience This volume is aimed at the following major target audiences University and College Students Educators Professional Practitioners and Research Personnel

Biomechanics of Soft Tissue in Cardiovascular Systems Gerhard A. Holzapfel, Ray W. Ogden, 2014-05-04

The book is written by leading experts in the field presenting an up to date view of the subject matter in a didactically sound manner. It presents a review of the current knowledge of the behaviour of soft tissues in the cardiovascular system under mechanical loads and the importance of constitutive laws in understanding the underlying mechanics is highlighted. Cells are also described together with arteries, tendons and ligaments, heart and other biological tissues of current research interest in biomechanics. This includes experimental, continuum mechanical and computational perspectives with the emphasis on nonlinear behaviour and the simulation of mechanical procedures such as balloon angioplasty. *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.

Advanced HPC-based Computational Modeling in Biomechanics and Systems Biology Mariano Vázquez, Peter V. Coveney, Hernan Edgardo Grecco, Alfons Hoekstra, Bastien Chopard, 2019-04-04. This eBook is a collection of articles from a Frontiers Research Topic. Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series: they are collections of at least ten articles all centered on a particular subject. With their unique mix of varied contributions from Original Research to Review Articles, Frontiers Research Topics unify the most influential researchers, the latest key findings and historical advances in a hot research area. Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office: frontiersin.org/about/contact. **Artificial Intelligence for Computational Modeling of the Heart** Tommaso Mansi, Tiziano Passerini, Dorin Comaniciu, 2019-11-28. Artificial Intelligence for Computational Modeling of the Heart presents recent research developments towards streamlined and automatic estimation of the digital twin of a patient's heart by combining computational modeling of heart physiology and artificial intelligence. The book first introduces the major aspects of multi-scale modeling of the heart along with the

compromises needed to achieve subject specific simulations Reader will then learn how AI technologies can unlock robust estimations of cardiac anatomy obtain meta models for real time biophysical computations and estimate model parameters from routine clinical data Concepts are all illustrated through concrete clinical applications

Mathematical and Numerical Modeling of the Cardiovascular System and Applications Daniele Boffi, Luca F. Pavarino, Gianluigi Rozza, Simone Scacchi, Christian Vergara, 2018-11-03 The book comprises contributions by some of the most respected scientists in the field of mathematical modeling and numerical simulation of the human cardiocirculatory system It covers a wide range of topics from the assimilation of clinical data to the development of mathematical and computational models including with parameters as well as their efficient numerical solution and both in vivo and in vitro validation It also considers applications of relevant clinical interest This book is intended for graduate students and researchers in the field of bioengineering applied mathematics computer computational and data science and medicine wishing to become involved in the highly fascinating task of modeling the cardiovascular system

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