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Editors

Computational Cardiovascular Mechanics

Modeling and Applications
in Heart Failure

Computational Cardiovascular Mechanics Modeling And Applications In Heart Failure

David Kirk



Computational Cardiovascular Mechanics Modeling And Applications In Heart Failure:

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.

Mathematical Modeling of Cardiovascular Systems:

From Physiology to the Clinic Julius Guccione, Ghassan S. Kassab, 2020-01-13

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 *Clinical Cardiac MRI* Jan Bogaert, Steven Dymarkowski, Andrew M. Taylor, Vivek Muthurangu, 2012-02-04 Clinical Cardiac MRI is a comprehensive textbook intended for everyone involved in magnetic resonance imaging of the heart It is designed both as a useful guide for newcomers to the field and as an aid for those who routinely perform such studies The first edition published in 2004 5 was very well received within the cardiac imaging community and has generally been considered the reference because of its completeness its clarity and the number and quality of the illustrations Moreover the addition of a CD ROM showing 50 real life cases significantly enhanced the value of the book In this second edition the aim has been to maintain the same quality while incorporating the newest insights and developments in this rapidly evolving domain of medical imaging The four editors all experts in the field have taken great care to ensure a homogeneous high standard throughout the book Finally the selection of 100 real life cases added as online material will further enhance the value of this textbook

Coronary Circulation Ghassan S. Kassab, 2019-05-15 This comprehensive text examines both global and local coronary blood flow based on morphometry and mechanical properties of the coronary vasculature Using a biomechanical approach this book addresses coronary circulation in a quantitative manner based on models rooted in experimental data that account for the various physical determinants of coronary blood flow including myocardial vessel interactions and various mechanisms of autoregulation This is the first text dedicated to a distributive analysis as opposed to lumped and provides digital files for detailed anatomical data e g diameters lengths node to node connections of the coronary vessels This book also provides appendices with specific mathematical formulations for the biomechanical analyses and models in the text Written by Dr Ghassan S Kassab a leader in the field of coronary biomechanics *Coronary Circulation Anatomy Mechanical Properties and Biomechanics* is a synthesis of seminal topics in the field and is intended for clinicians bioengineers and researchers as a compendium on the topic The detailed anatomical and mechanical data provided are intended to be used as a platform to address new questions in this exciting and clinically very important research area

Coronary Graft Failure Ion C. Țintoiu, Malcolm John Underwood, Stephane Pierre Cook, Hironori Kitabata, Amer Abbas, 2016-03-24 Coronary artery bypass surgery has been developed since 1960s to overcome proximal coronary artery disease Worldwide the number of patients that are undergoing coronary artery bypass surgery is steadily increasing Depending on diverse risk factors one fifth of grafts are occluded at 1 year For the remaining graft patency last usually 8 15 years This book brings together the main specialists in the field to review the current evidence on epidemiology pathophysiology diagnostic new imaging techniques and specific therapeutic modalities This volume aims to update a complex subject represented by coronary graft failure The authors of this monograph are interventional cardiologists

cardiovascular surgeons and research scientists who will be creating four parts and 71 chapters that are divided in order to give a uniform interpretation of this condition including all aspects of coronary graft failure This book not only provides the most up to dated scientific evidence in the field but in a two step manner Each chapter is divided into a at a glance part that reflects the basic evidence on the topic and a full picture part that brings all what the advanced reader should be brought with Patient-Specific Modeling of the Cardiovascular System Roy C.P. Kerckhoffs,2010-09-03 Peter Hunter

Computational physiology for the cardiovascular system is entering a new and exciting phase of clinical application Biophysically based models of the human heart and circulation based on patient specific anatomy but also informed by population atlases and incorporating a great deal of mechanistic understanding at the cell tissue and organ levels offer the prospect of evidence based diagnosis and treatment of cardiovascular disease The clinical value of patient specific modeling is well illustrated in application areas where model based interpretation of clinical images allows a more precise analysis of disease processes than can otherwise be achieved For example Chap 6 in this volume by Speelman et al deals with the very difficult problem of trying to predict whether and when an abdominal aortic aneurysm might burst This requires automated segmentation of the vascular geometry from magnetic resonance images and finite element analysis of wall stress using large deformation elasticity theory applied to the geometric model created from the segmentation The time varying normal and shear stress acting on the arterial wall is estimated from the arterial pressure and flow distributions Thrombus formation is identified as a potentially important contributor to changed material properties of the arterial wall Understanding how the wall adapts and remodels its material properties in the face of changes in both the stress loading and blood constituents associated with inflammatory processes IL6 CRP MMPs etc **Biological Control Systems and Disease Modelling**

Babatunde Ogunnaike,David Bogle,Robert Parker,Julio R. Banga,2021-06-04 **Computational Methods in**

Bioengineering American Society of Mechanical Engineers. Winter Annual Meeting,1988 **Critical Reviews in**

Biomedical Engineering ,1997 **Computational Modeling of Patient-specific Cardiac Mechanics with Model**

Reduction-based Parameter Estimation and Applications to Novel Heart Assist Technologies Marc Hirschvogel,2019

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has never been higher And this is the source to the 3 400 programs currently available from bioengineering and computer science to construction management **Cardiac Engineering** S. Sideman,Rafael Beyar,2004 This volume concentrates on the analysis of the contributions of micro scale elements on the structure and function of the cardiovascular system through pursuit of the characteristics of the basic elements cells organelles genes molecules and ions as well as the control mechanisms affecting the various interactions and functions The general goals of this volume are to 1 foster interdisciplinary interaction among leading world scientists and clinical cardiologists in order to identify missing knowledge and catalyze new research ideas 2 relate basic microscale molecular and subcellular phenomena to global clinically manifested cardiac performance 3 apply conceptual modeling and quantitative analysis to better explore describe and understand cardiac physiology 4 interpret available clinical data and design new revealing experiments and 5 enhance international cooperation in the search for the secrets of life and their implications in cardiac pathophysiology *Proceedings, MEDCOMP '82 ,1982*

Medical Applications of Computer Modelling Ted B. Martonen,2001 Designed for use in both academic and research environments this volume addresses applications of computer modelling and fluid dynamics to biological systems Emphasis is placed on demonstrating the important roles that mathematical theory and computer technology play in the medical arena This text focuses on the respiratory system and includes such topics as morphology of the human extrathoracic airways the morphology of the lung and stochastic modelling of particle deposition in the human lung **Mechanics Computing in**

1990's and Beyond: Computational mechanics, fluid mechanics, and biomechanics Hojjat Adeli,R. L. Sierakowski,1991 *Mechanical Engineering ,2005* **Dissertation Abstracts International ,2007** **The Structural Basis of Three-dimensional Ventricular Mechanics** Kevin David Costa,1996 The Engineering Index Annual ,1993

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