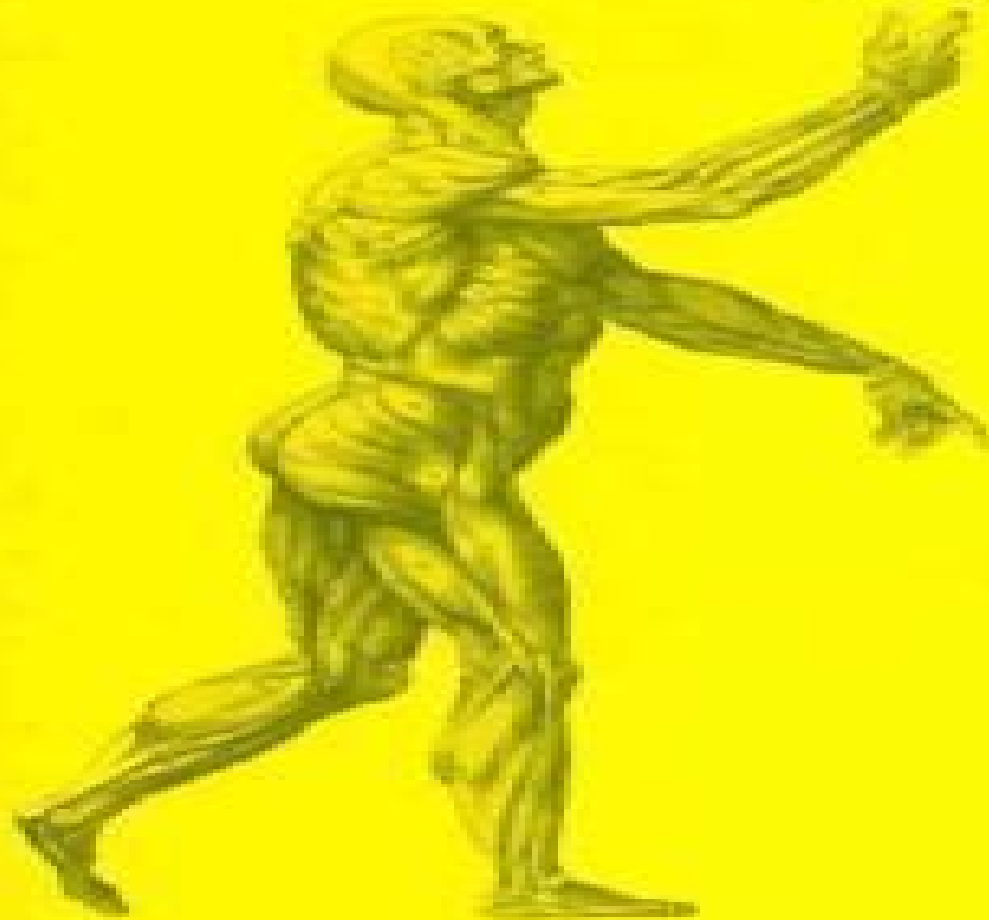


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# Mathematical Physiology

James Keener  
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*Mathematical Physiology: Cellular physiology* James P. Keener, 2009      *Introduction to Mathematical Physiology and Biology*, 1999      **Applied Mathematical Models in Human Physiology** Johnny T. Ottesen, Mette S. Olufsen, Jesper K. Larsen, 2004-02-01 This book introduces mathematicians to real applications from physiology Using mathematics to analyze physiological systems the authors discuss models reflecting current research in cardiovascular and pulmonary physiology In particular they present models describing blood flow in the heart and the cardiovascular system as well as the transport of oxygen and carbon dioxide through the respiratory system and a model for baroreceptor regulation This is the only book available that analyzes up to date models of the physiological system at several levels of detail both simple real time models that can be directly used in larger systems and more detailed reference models that show the underlying physiological mechanisms and provide parameters for and validation of simpler models The book also covers two dimensional modeling of the fluid dynamics in the heart and its ability to pump and includes a discussion of modeling wave propagation throughout the systemic arteries      *Mathematical Physiology: Blood Flow and Electrically Active Cells* H. Melvin Lieberstein, 1973

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Layton, Aurelie Edwards, 2014-08-06 With the availability of high speed computers and advances in computational techniques the application of mathematical modeling to biological systems is expanding This comprehensive and richly illustrated volume provides up to date wide ranging material on the mathematical modeling of kidney physiology including clinical data analysis and practice exercises Basic concepts and modeling techniques introduced in this volume can be applied to other areas or organs of physiology The models presented describe the main homeostatic functions performed by the kidney

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**Mathematical Cardiac Electrophysiology** Piero Colli Franzone, Luca Franco Pavarino, Simone Scacchi, 2014-10-30 This book covers the main mathematical and numerical models in computational electrocardiology ranging from microscopic membrane models of cardiac ionic channels to macroscopic bidomain monodomain eikonal models and cardiac source representations These advanced multiscale and nonlinear models describe the cardiac bioelectrical activity from the cell level to the body surface and are employed in both the direct and inverse problems of electrocardiology The book also covers advanced numerical techniques needed to efficiently carry out large scale cardiac simulations including time and space discretizations decoupling and operator splitting techniques parallel finite element solvers These techniques are employed in 3D cardiac simulations illustrating the excitation mechanisms the anisotropic effects on excitation and repolarization wavefronts the morphology of

electrograms in normal and pathological tissue and some reentry phenomena The overall aim of the book is to present rigorously the mathematical and numerical foundations of computational electrocardiology illustrating the current research developments in this fast growing field lying at the intersection of mathematical physiology bioengineering and computational biomedicine This book is addressed to graduate student and researchers in the field of applied mathematics scientific computing bioengineering electrophysiology and cardiology Mathematical Aspects of Physiology F. C. Hoppensteadt, 1981 *Mathematical and Computational Methods in Physiology* L. Fedina, B. Kanyár, B. Kocsis, 2013-10-22 Mathematical and Computational Methods in Physiology discusses the importance of quantitative description of physiological phenomena and for quantitative comparison of experimental data An article explains the homeostasis of the body with a focus on the controlling aspects This section evaluates the concepts of modern physiology and biocybernetics The canal ocular reflex and the otolith ocular reflex in man stimulates eye rotations compensatory for head angular and linear displacements The book enumerates some modelling and simulation to observe the visual vestibular interaction during angular and linear body acceleration A section on the determination of cardiovascular control is given The text reviews the mathematical models of the biological age of the rat A numerical simulation of water transport in epithelial junctions is explained comprehensively A chapter analyzing the computer simulation of drug receptor interaction is presented The book will provide useful information to zoologists doctors ophthalmologists students and researchers in the field of medicine

## Unveiling the Magic of Words: A Report on "**Mathematical Physiology Mathematical Physiology**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Mathematical Physiology Mathematical Physiology**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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