

Editorial

Computational and Mathematical Methods in Medicine

Pamela Jones¹ and Sivabal Sivaloganathan²

¹ *Institute of Molecular Medicine, Leeds University, Leeds LS9 7TF, UK*

² *Department of Applied Mathematics, University of Waterloo, 200 University Avenue W., Waterloo, ON, Canada N2L 2G1*

Correspondence should be addressed to Sivabal Sivaloganathan, sivalog@math.uwaterloo.ca

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This issue marks a transition and a changing of the guard for Computational and Mathematical Methods in Medicine (CMMM). It is with some nostalgia that we look back on our long and illustrious association with Taylor and Francis; however, at the same time we look to the future with optimism and hope as Hindawi takes the helm and converts CMMM to the community-based, open access model that they have so successfully championed. The Hindawi Publishing Corporation is one of the fastest growing academic publishers worldwide with over 200 academic journals in their portfolio and a commitment to the highest levels of peer review and excellence.

Reflecting on the genesis and evolution of CMMM, it is clear that Brian Sleeman, the founding Editor-in-Chief, showed great foresight in creating a journal that brought together the disparate disciplines of mathematics and medicine and that continues to play a major role in the development of mathematical medicine. He worked passionately to develop and promote the journal through some difficult times, with the insight and courage to bring together both biomedical/clinical scientists and mathematical scientists onto a single editorial board (a practice that has become more commonplace in subsequent journals in the field). The success that the journal has enjoyed thus far is a clear testament to his hard work, dedication, and vision.

The journal has continued to provide a unique forum for the dissemination of interdisciplinary research resulting from collaborations between clinicians/experimentalists and theoreticians. CMMM has also continued to evolve rapidly, reflecting the increased focus on systems and interdisciplinary collaborative efforts across the breadth of biomedical, clinical, and translational research areas. The past year also saw the result of much hard work, with the inclusion of

the journal in PubMed/Medline and the Science Citation Index Expanded. This was a great development for the journal since it not only has had an enormous impact on the general awareness and profile of the journal but has also resulted in increased submissions and downloads from the journal website over the past year. It has been exciting and rewarding to see the journal develop and evolve in this manner, and we look forward to increased success following this higher profile.

The future looks extremely bright for the field of mathematical medicine as it emerges from its period of infancy and takes its place as a legitimate and central field of research and enquiry. Our sincere hope and wish is that CMMM continues from strength to strength and fulfills its role and promise as envisioned originally by its founding editor.

Pamela Jones
Sivabal Sivaloganathan

Mathematical Methods In Medicine

**Frank C. Hoppensteadt, Charles S.
Peskin**



Mathematical Methods In Medicine:

Mathematical Methods in Medicine, 1978 **Mathematical Methods In Medicine** Richard Bellman, 1983-04-01 This book is intended for medical students and advanced undergraduates such as physicists and mathematicians with interdisciplinary interests biophysicists medical physicists applied mathematicians and others who wish to understand medicine in mathematical terms as well as current mathematical applications in physiology and medicine The mathematical presentation is clear and self contained This book representing 15 years of work at RAND Corporation and USC on chemotherapy pharmacokinetics and nuclear medicine attempts to direct medical scientists towards mathematical aspects of problems in medicine The book begins with an introduction to compartmental models and matrix theory highlighting the advantages of the approach Discussions on how questions in observations and testing lead to multi point boundary value problems are presented The potentials of the digital computer in the bio medical field are examined A new approach dynamic programming to overcome clinical constraints is covered in detail The reader should obtain a broad impression of where future research opportunities in the biochemical field lie **Mathematical Methods in Medicine**, 1986 *Mathematical Methods in Medicine: Statistical and analytical techniques* D. Ingram, R. F. Bloch, 1984 MATHEMATICAL METHODS IN MEDICINE [Part 1-2]. D. INGRAM, **Mathematical Methods in Medicine, Statistical and Analytical Techniques** D. Ingram, R. F. Bloch, 1984 *Mathematical Methods in Medicine: Applications in clinical specialties* David Ingram, R. F. Bloch, 1984 *Mathematical methods in medicine: Applications in clinical specialties* David Ingram, R. F. Bloch, 1986

Mathematical Techniques for Biology and Medicine William Simon, 1986-01-01 Extremely useful volume reviews basic calculus shows how physiological problems can be formulated in terms of differential equations Techniques applied to often encountered problems Bibliography **Handbook of AI-Based Models in Healthcare and Medicine** Bhanu Chander, Koppala Guravaiah, B. Anoop, G. Kumaravelan, 2024-02-21 This handbook provides thorough in depth and well focused developments of artificial intelligence AI machine learning ML deep learning DL natural language processing NLP cryptography and blockchain approaches along with their applications focused on healthcare systems Handbook of AI Based Models in Healthcare and Medicine Approaches Theories and Applications highlights different approaches theories and applications of intelligent systems from a practical as well as a theoretical view of the healthcare domain It uses a medically oriented approach in its discussions of human biology healthcare and medicine and presents NLP based medical reports and medicine enhancements The handbook includes advanced models of ML and DL for the management of healthcare systems and also discusses blockchain based healthcare management In addition the handbook offers use cases where AI ML and DL can help solve healthcare complications Undergraduate and postgraduate students academicians researchers and industry professionals who have an interest in understanding the applications of ML DL in the healthcare setting will want this reference on their bookshelf **Mathematical Methods in Medicine, Statistical and Analytical Techniques** R. F.

Bloch,1985-02-19 *National Library of Medicine Current Catalog* National Library of Medicine (U.S.),1993 First multi year cumulation covers six years 1965 70 *Computational and Mathematical Methods in Medicine* ,2006 **Systems Medicine** ,2020-08-24 Technological advances in generated molecular and cell biological data are transforming biomedical research Sequencing multi omics and imaging technologies are likely to have deep impact on the future of medical practice In parallel to technological developments methodologies to gather integrate visualize and analyze heterogeneous and large scale data sets are needed to develop new approaches for diagnosis prognosis and therapy Systems Medicine Integrative Qualitative and Computational Approaches is an innovative interdisciplinary and integrative approach that extends the concept of systems biology and the unprecedented insights that computational methods and mathematical modeling offer of the interactions and network behavior of complex biological systems to novel clinically relevant applications for the design of more successful prognostic diagnostic and therapeutic approaches This 3 volume work features 132 entries from renowned experts in the fields and covers the tools methods algorithms and data analysis workflows used for integrating and analyzing multi dimensional data routinely generated in clinical settings with the aim of providing medical practitioners with robust clinical decision support systems Importantly the work delves into the applications of systems medicine in areas such as tumor systems biology metabolic and cardiovascular diseases as well as immunology and infectious diseases amongst others This is a fundamental resource for biomedical students and researchers as well as medical practitioners who need to need to adopt advances in computational tools and methods into the clinical practice Encyclopedic coverage one stop resource for access to information written by world leading scholars in the field of Systems Biology and Systems Medicine with easy cross referencing of related articles to promote understanding and further research Authoritative the whole work is authored and edited by recognized experts in the field with a range of different expertise ensuring a high quality standard Digitally innovative Hyperlinked references and further readings cross references and diagrams images will allow readers to easily navigate a wealth of information *Mathematics in Biology and Medicine* Vincenzo Capasso,Enea Grosso,Stefano L. Paveri-Fontana,2013-03-13 **Encyclopaedia of the History of Science, Technology, and Medicine in Non-Western Cultures** Helaine Selin,2013-11-11 The Encyclopaedia fills a gap in both the history of science and in cultural studies Reference works on other cultures tend either to omit science completely or pay little attention to it and those on the history of science almost always start with the Greeks with perhaps a mention of the Islamic world as a translator of Greek scientific works The purpose of the Encyclopaedia is to bring together knowledge of many disparate fields in one place and to legitimize the study of other cultures science Our aim is not to claim the superiority of other cultures but to engage in a mutual exchange of ideas The Western academic divisions of science technology and medicine have been united in the Encyclopaedia because in ancient cultures these disciplines were connected This work contributes to redressing the balance in the number of reference works devoted to the study of Western science and encourages awareness of cultural diversity

The Encyclopaedia is the first compilation of this sort and it is testimony both to the earlier Eurocentric view of academia as well as to the widened vision of today There is nothing that crosses disciplinary and geographic boundaries dealing with both scientific and philosophical issues to the extent that this work does xi PERSONAL NOTE FROM THE EDITOR Many years ago I taught African history at a secondary school in Central Africa

Modeling and Simulation in Medicine and the Life Sciences Frank C. Hoppensteadt, Charles S. Peskin, 2012-12-06 Mathematics in Medicine and the Life Sciences grew from lectures given by the authors at New York University the University of Utah and Michigan State University The material is written for students who have had but one term of calculus but it contains material that can be used in modeling courses in applied mathematics at all levels through early graduate courses Numerous exercises are given as well and solutions to selected exercises are included Numerous illustrations depict physiological processes population biology phenomena models of them and the results of computer simulations Mathematical models and methods are becoming increasingly important in medicine and the life sciences This book provides an introduction to a wide diversity of problems ranging from population phenomena to demographics genetics epidemics and dispersal in physiological processes including the circulation gas exchange in the lungs control of cell volume the renal counter current multiplier mechanism and muscle mechanics to mechanisms of neural control Each chapter is graded in difficulty so a reading of the first parts of each provides an elementary introduction to the processes and their models Materials that deal with the same topics but in greater depth are included later Finally exercises and some solutions are given to test the reader on important parts of the material in the text or to lead the reader to the discovery of interesting extensions of that material

Encyclopaedia of the History of Science, Technology, and Medicine in Non-Western Cultures Helaine Selin, 2008-03-12 Here at last is the massively updated and augmented second edition of this landmark encyclopedia It contains approximately 1000 entries dealing in depth with the history of the scientific technological and medical accomplishments of cultures outside of the United States and Europe The entries consist of fully updated articles together with hundreds of entirely new topics This unique reference work includes intercultural articles on broad topics such as mathematics and astronomy as well as thoughtful philosophical articles on concepts and ideas related to the study of non Western Science such as rationality objectivity and method You ll also find material on religion and science East and West and magic and science

Towards Holistic Medicine Bing Yuan, 2024-08-02 Holistic medicine is A clinical discipline that integrates both Eastern and Western medical methods and knowledge systems into one An evidence based medicine that simultaneously embodies both a holistic approach and personalized principles The most straightforward form of medicine that adheres to scientific standards and effectively meets the needs of humanity In recent years the integrated research on living organisms initiated by systems biology along with the efforts of precision medicine to tailor treatment plans based on the individual characteristics of each patient have opened up the process of modern biology and medicine returning to the ideas of Chinese medical traditions Under the larger

perspective of the development and evolution of Eastern and Western medicine biology and even natural science for hundreds of years this book follows the evolution of modern scientific methods and reveals the inevitable trend of future medicine holistic medicine Holistic medicine is a medical system that fully integrates Chinese and Western medical methods and knowledge systems and conforms to scientific norms It is an evidence based medicine that embodies the holistic concept and individualized principles This book outlines the method and theoretical framework of holistic medicine and provides the method of constructing the theoretical system and using it to achieve the best regulation of diseases It can be expected that holistic medicine will become the mainstream medicine in the 21st century

Data Acquisition and Processing in Biology and Medicine Kurt Enslein, 2013-10-22 Data Acquisition and Processing in Biology and Medicine Volume 5 presents the proceedings of the 1966 Rochester Conference The book presents a model based on the visco elastic behavior of the aorta and arterioles that can generate aortic pressure curves resembling real ones and the computer aided diagnosis The text also includes papers on an electric analog for the uptake distribution and excretion of inhalation anesthetics the use of computer analysis of morphological pattern as an aid in taxonomic discrimination and a simulation study of a hand controlled by myoelectric signals Computer aided differentiation of glycemic curves as well as the use of Fourier waveform analysis to confirm the differentiability of preganglionic slow potentials into postganglionic slow potential waveforms are also encompassed

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