

# Lecture Notes in Biomathematics

Edited by S. Levin

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## Mathematical Problems in Biology

Victoria Conference



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# Mathematical Problems In Biology Victoria Conference

**Przemyslaw Prusinkiewicz, James  
Hanan**



## **Mathematical Problems In Biology Victoria Conference:**

Mathematical Problems in Biology P. van den Driessche, 2013-03-08 A conference on Some Mathematical Problems in Biology was held at the University of Victoria Victoria B C Canada from May 7 10 1973 The participants and invited speakers were mathematicians interested in problems of a biological nature and scientists actively engaged in developing mathematical models in biological fields One aim of the conference was to attempt to assess what the recent rapid growth of mathematical interaction with the biosciences has accomplished and may accomplish in the near future The conference also aimed to expose the problems of communication between mathematicians and biological scientists and in doing so to stimulate the interchange of ideas It was recognised that the topic spans an enormous breadth and little attempt was made to balance the very diverse areas Widespread active interest was shown in the conference and just over one hundred people registered The varied departments and institutions across North America from which the participants came made it both academically and geographically mixed The chief activity of the conference was the presentation of papers Nine invited guest speakers see table of contents each gave a one hour talk These covered a wide range of topics There were twenty five shorter twenty minute contributed papers and almost all papers were followed by a five minute question and discussion period Duplicated abstracts of presented papers were available at the meeting An evening informal discussion meeting of participants chaired by Dr A B Tayler and led by Drs E M Hagmeier E C

**Mathematical Problems in Biology** P. van den Driessche, 2014-01-15      Mathematical problems in biology, 1974      **Mathematical Problems in Biology** Pauline Van den Driessche, 1974      **Mathematical Approaches to Problems in Resource Management and Epidemiology** Carlos Castillo-Chavez, Simon A. Levin, Christine A. Shoemaker, 2013-03-08 Increasingly mathematical methods are being used to advantage in addressing the problems facing humanity in managing its environment Problems in resource management and epidemiology especially have demonstrated the utility of quantitative modeling To explore these approaches the Center of Applied Mathematics at Cornell University organized a conference in Fall 1987 with the objective of surveying and assessing the state of the art This volume records the proceedings of that conference Underlying virtually all of these studies are models of population growth from individual cells to large vertebrates Cell population growth presents the simplest of systems for study and is of fundamental importance in its own right for a variety of medical and environmental applications In Part I of this volume Michael Shuler describes computer models of individual cells and cell populations and Frank Hoppensteadt discusses the synchronization of bacterial culture growth Together these provide a valuable introduction to mathematical cell biology      **Mathematical Models in Cell Biology and Cancer Chemotherapy** M. Eisen, 2013-03-13 The purpose of this book is to show how mathematics can be applied to improve cancer chemotherapy Unfortunately most drugs used in treating cancer kill both normal and abnormal cells However more cancer cells than normal cells can be destroyed by the drug because tumor cells usually exhibit different growth kinetics than normal cells To capitalize on this

last fact cell kinetics must be studied by formulating mathematical models of normal and abnormal cell growth These models allow the therapeutic and harmful effects of cancer drugs to be simulated quantitatively The combined cell and drug models can be used to study the effects of different methods of administering drugs The least harmful method of drug administration according to a given criterion can be found by applying optimal control theory The prerequisites for reading this book are an elementary knowledge of ordinary differential equations probability statistics and linear algebra In order to make this book self contained a chapter on cell biology and a chapter on control theory have been included Those readers who have had some exposure to biology may prefer to omit Chapter I Cell Biology and only use it as a reference when required However few biologists have been exposed to control theory Chapter 7 provides a short coherent and comprehensible presentation of this subject The concepts of control theory are necessary for a full understanding of Chapters 8 and 9

Mathematical Topics in Population Biology, Morphogenesis and Neurosciences Ei Teramoto, Masaya Yamaguti, 2013-03-08 This volume represents the edited proceedings of the International Symposium on Mathematical Biology held in Kyoto November 10 15 1985 The symposium was organized by an international committee whose members are E Teramoto M Yamaguti S Amari S A Levin H Matsuda A Okubo L M Ricciardi R Rosen and L A Segel The symposium included technical sessions with a total of 11 invited papers 49 contributed papers and a poster session where 40 papers were displayed These Proceedings consist of selected papers from this symposium This symposium was the second Kyoto meeting on mathematical topics in biology The first was held in conjunction with the Sixth International Biophysics Congress in 1978 Since then this field of science has grown enormously and the number of scientists in the field has rapidly increased This is also the case in Japan About 80 young Japanese scientists and graduate students participated this time The sessions were divided into 4 categories 1 Mathematical Ecology and Population Biology 2 Mathematical Theory of Developmental Biology and Morphogenesis 3 Theoretical Neurosciences and 4 Cell Kinetics and Other Topics In every session there were stimulating and active discussions among the participants We are convinced that the symposium was highly successful in transmitting scientific information across disciplines and in establishing fruitful contacts among the participants We owe this success to the cooperation of all participants

**Mathematical Ecology** S.A. Levin, T.G. Hallam, 2013-03-13

**The Mechanics and Biophysics of Hearing** Peter Dallos, C. Daniel Geisler, John W. Matthews, Mario A. Ruggero, Charles R. Steele, 2014-03-11 Proceedings of a workshop on the physics and biophysics of hearing that brought together experimenters and modelers working on all aspects of audition Topics covered include cochlear mechanical measurements cochlear models mechanicals and biophysics of hair cells efferent control and ultrastructure

*The Dynamics of Physiologically Structured Populations* Johan A. Metz, Odo Diekmann, 2014-03-11

**Mathematical Models of the Dynamics of the Human Eye** R. Collins, T. J. van der Werff, 2013-03-08 A rich and abundant literature has developed during the last half century dealing with mechanical aspects of the eye mainly from clinical and experimental points of view For the most part workers have attempted to shed

light on the complex set of conditions known by the general term glaucoma. These conditions are characterised by an increase in intraocular pressure sufficient to cause degeneration of the optic disc and concomitant defects in the visual field which if not controlled lead to inevitable permanent blindness. In the United States alone an estimated 50 000 persons are blind as a result of glaucoma which strikes about 2% of the population over 40 years of age (Vaughan and Asbury 1974). An understanding of the underlying mechanisms of glaucoma is hindered by the fact that elevated intraocular pressure like a runny nose is but a symptom which may have a variety of causes. Only by turning to the initial pathology can one hope to understand this important class of medical problems.

*Stochastic Methods in Biology* Motoo Kimura, Gopinath Kallianpur, Takeyuki Hida, 2013-03-13. The use of probabilistic methods in the biological sciences has been so well established by now that mathematical biology is regarded by many as a distinct discipline with its own repertoire of techniques. The purpose of the Workshop on stochastic methods in biology held at Nagoya University during the week of July 8-12 1985 was to enable biologists and probabilists from Japan and the U S to discuss the latest developments in their respective fields and to exchange ideas on the applicability of the more recent developments in stochastic process theory to problems in biology. Eighteen papers were presented at the Workshop and have been grouped under the following headings: I Population genetics five papers; II Measure valued diffusion processes related to population genetics three papers; III Neurophysiology two papers; IV Fluctuation in living cells two papers; V Mathematical methods related to other problems in biology epidemiology population dynamics etc six papers. An important feature of the Workshop and one of the reasons for organizing it has been the fact that the theory of stochastic differential equations (SDEs) has found a rich source of new problems in the fields of population genetics and neurobiology. This is especially so for the relatively new and growing area of infinite dimensional measure valued or distribution valued SDEs. The papers in II and III and some of the papers in the remaining categories represent these areas.

**Lindenmayer Systems, Fractals, and Plants** Przemyslaw Prusinkiewicz, James Hanan, 2013-11-11. L-systems are a mathematical formalism which was proposed by Aristid Lindenmayer in 1968 as a foundation for an axiomatic theory of development. The notion promptly attracted the attention of computer scientists who investigated L-systems from the viewpoint of formal language theory. This theoretical line of research was pursued very actively in the seventies resulting in over one thousand publications. A different research direction was taken in 1984 by Alvy Ray Smith who proposed L-systems as a tool for synthesizing realistic images of plants and pointed out the relationship between L-systems and the concept of fractals introduced by Benoit Mandelbrot. The work by Smith inspired our studies of the application of L-systems to computer graphics. Originally we were interested in two problems: Can L-systems be used as a realistic model of plant species found in nature? Can L-systems be applied to generate images of a wide class of fractals? It turned out that both questions had affirmative answers. Subsequently we found that L-systems could be applied to other areas such as the generation of tilings, reproduction of a geometric art form from East India and synthesis of musical scores based

on an interpretation of fractals This book collects our results related to the graphical applications of systems It is a corrected version of the notes which we prepared for the ACM SIGGRAPH 88 course on fractals *Mathematical Demography* D. Smith, Nathan Keyfitz, 2012-12-06 This volume is an effort to bring together important contributions to the mathematical development of demography and to suggest briefly their historical context We have tried to find who first thought of the several concepts and devices commonly used by demographers what sort of problem he was facing to which the device or concept seemed the solution and how his invention developed subsequently in the hands of others Historically the book starts with a Roman table of life expectancies from the third century ad about which we know little and with John Graunt's explorations in an area that was still popularly suspect when he wrote in 1662 These are followed by the astronomer Halley who looked into the field long enough to invent the life table and to notice that Their Majesties would take a sizeable loss on the annuity scheme they had just launched and by Euler who was first to devise the formulas of stable population theory and to apply them to filling gaps in data To these we add the handful of further contributions in the 19th century and many pieces from the explosion of contributions that began in this century with Lotka We doubt that we have managed to trace everything back to its ultimate beginning and suspect that our nominees in some cases have been anticipated by predecessors who will be turned up by other students Acanthaster and the Coral Reef: A Theoretical Perspective Roger H. Bradbury, 2013-03-09 In August 1988 the Sixth International Coral Reef Symposium was held in Townsville resulting in an influx of most of the world's coral reef scientists to the city We seized this opportunity at the Australian Institute of Marine Science to run a small workshop immediately before the symposium on the outbreaks of the crown of thorns starfish *Acanthaster planci* We invited that small band of mathematicians who had been modelling the phenomenon and who may not have normally attended an international meeting so thoroughly dedicated to natural science to meet with those scientists who had been actively working on the phenomenon in the field John Casti notes in his delightful new book *Alternate Realities* Wiley 1989 If the natural role of the experimenter is to generate new observables by which we know the processes of Nature and the natural role of the mathematician is to generate new formal structures by which we can represent these processes then the system scientist finds his niche by serving as a broker between the two I think our book shows the fruits of that brokerage through the wide range of models explored within its pages the high level of collaboration and interaction across disciplines evident in the individual papers and in the emerging synthesis that reflects a far deeper understanding of this complex phenomenon than was possible even a few years ago Journal of Mathematical Biology, 1990 Publishes papers in which mathematics is used to understand biological phenomena and mathematical papers which answer questions arising from models of biological phenomena Stochastic Processes in Epidemic Theory Jean-Pierre Gabriel, Claude Lefevre, Philippe Picard, 2014-03-11 This collection of papers gives a representative cross sectional view of recent developments in the field After a survey paper by C Lefevre 17 other research papers look at stochastic modeling of epidemics both from a theoretical and a statistical point of

view Some look more specifically at a particular disease such as AIDS malaria schistosomiasis and diabetes

**Modeling and Management of Resources under Uncertainty** Thomas L. Vincent, Yosef Cohen, Walter J. Grantham, Geoffrey P. Kirkwood, Jan M. Skowronski, 2013-03-08 This volume contains the proceedings of the second U S Australia workshop on Renewable Resource Management held at the East West Center Honolulu Hawaii December 9-12 1985 The workshop was jointly sponsored by the National Science Foundation USA and the Department of Science and Technology Australia under the U S Australia Cooperative Science Program The objective of the workshop was to focus on problems associated with the management of renewable resource systems A particular emphasis was given to methods for handling uncertain elements which are present in any real system Toward this end the participants were chosen so that the collective expertise included mathematical modeling dynamical control game theory ecology and practical management of real systems Each participant was invited to give an informal presentation in his field of expertise as related to the overall theme The formal papers contained in this volume were written after the workshop so that the authors could utilize the workshop experience in relating their own work to others To further encourage this exchange each paper contained in this volume was reviewed by two other participants who then wrote formal comments These comments with author's reply in some cases are attached to the end of each paper

Mathematical Modeling of the Hearing Process M.H. Holmes, L.A. Rubinfeld, 2013-03-13 The articles of these proceedings arise from a NSF CBMS regional conference on the mathematical modeling of the hearing process that was held at Rensselaer Polytechnic Institute in the summer of 1980 To put the articles in perspective it is best to briefly review the history of such modeling It has proceeded more or less in three stages The first was initiated by Herman Helmholtz in the 1880's whose theories dominated the subject for years However because of his lack of accurate experimental data and his heuristic arguments it became apparent that his models needed revision Accordingly based on the experimental observations of von Békésy the long wave theories were developed in the 1950's by investigators such as Zwillocki Peterson and Bogert However as the experiments became more refined such as Rhodes's measurements even these models came into question This has brought on a flurry of activity in recent years into how to extend the models to account for these more recent experimental observations One approach is through a device commonly referred to as a second filter see Allen's article and another is through a more elaborate hydroelastic model see Chadwick's article In conjunction with this latter approach there has been some recent work on developing a low frequency model of the cochlea see Holmes article

*Mathematics and the Life Sciences* D.E. Matthews, 2013-03-13 For two weeks in August 1975 more than 140 mathematicians and other scientists gathered at the University of Sherbrooke The occasion was the 15th Biennial Seminar of the Canadian Mathematical Congress entitled Mathematics and the Life Sciences Participants in this interdisciplinary gathering included researchers and graduate students in mathematics seven different areas of biological science physics chemistry and medical science Geographically those present came from the United States and the United Kingdom as

well as from academic departments and government agencies scattered across Canada. In choosing this particular interdisciplinary topic, the programme committee had two chief objectives. These were to promote Canadian research in mathematical problems of the life sciences and to encourage co-operation and exchanges between mathematical scientists, biologists, and medical researchers. To accomplish these objectives, the committee assembled a stimulating programme of lectures and talks. Six principal lecturers each delivered a series of five one-hour lectures in which various aspects of the interaction between mathematics and the life sciences were considered. In addition, researchers working in the areas of health, population biology, physiology, and development biology and disease processes were invited to give more than 25 hours of complementary talks.



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