

**Biomathematics  
Volume 6**

**D. Smith    N. Keyfitz**

# **Mathematical Demography**

Selected Papers



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# Mathematical Demography Selected Papers Biostatistics Volume 6

**J. Impagliazzo**



## **Mathematical Demography Selected Papers Biomathematics Volume 6:**

Mathematical Demography David P. Smith, Nathan Keyfitz, 2013-07-23 Mathematical demography is the centerpiece of quantitative social science. The founding works of this field from Roman times to the late Twentieth Century are collected here in a new edition of a classic work by David R. Smith and Nathan Keyfitz. Commentaries by Smith and Keyfitz have been brought up to date and extended by Kenneth Wachter and Hervé Le Bras, giving a synoptic picture of the leading achievements in formal population studies. Like the original collection, this new edition constitutes an indispensable source for students and scientists alike and illustrates the deep roots and continuing vitality of mathematical demography.

Deterministic Aspects of Mathematical Demography J. Impagliazzo, 2012-12-06 Mathematical Demography, the study of population and its analysis through mathematical models, has received increased interest in the mathematical community in recent years. It was not until the twentieth century, however, that the study of population, predominantly human population, achieved its mathematical character. The subject of mathematical demography can be viewed from either a deterministic viewpoint or from a stochastic viewpoint. For the sake of brevity, stochastic models are not included in this work. It is therefore my intention to consider only established deterministic models in this discussion, starting with the life table as the earliest model to a generalized matrix model which is developed in this treatise. These deterministic models provide sufficient development and conclusions to formulate sound mathematical population analysis and estimates of population projections. It should be noted that although the subject of mathematical demography focuses on human populations, the development and results may be applied to any population as long as the preconditions that make the model valid are maintained.

Information concerning mathematical demography is at best fragmented.

Mathematical Biology James D. Murray, 2013-06-29 Mathematics has always benefited from its involvement with developing sciences. Each successive interaction revitalises and enhances the field. Biomedical science is clearly the premier science of the foreseeable future. For the continuing health of their subject, mathematicians must become involved with biology. With the example of how mathematics has benefited from and influenced physics, it is clear that if mathematicians do not become involved in the biosciences, they will simply not be a part of what are likely to be the most important and exciting scientific discoveries of all time. Mathematical biology is a fast-growing, well-recognised, albeit not clearly defined, subject and is to my mind the most exciting modern application of mathematics. The increasing use of mathematics in biology is inevitable as biology becomes more quantitative. The complexity of the biological sciences makes interdisciplinary involvement essential. For the mathematician, biology opens up new and exciting branches, while for the biologist, mathematical modelling offers another research tool commensurate with a new powerful laboratory technique, but only if used appropriately and its limitations recognised. However, the use of esoteric mathematics arrogantly applied to biological problems by mathematicians who know little about the real biology, together with unsubstantiated claims as to how important such theories are, does little to promote the interdisciplinary involvement which is so essential. Mathematical

biology research to be useful and interesting must be relevant biologically

*Mathematical Aspects of Reacting and Diffusing Systems* P. C. Fife, 2013-03-08 Modeling and analyzing the dynamics of chemical mixtures by means of differential equations is one of the prime concerns of chemical engineering theorists. These equations often take the form of systems of nonlinear parabolic partial differential equations or reaction diffusion equations when there is diffusion of chemical substances involved. A good overview of this endeavor can be had by reading the two volumes by R. Aris, 1975, who himself was one of the main contributors to the theory. Enthusiasm for the models developed has been shared by parts of the mathematical community and these models have in fact provided motivation for some beautiful mathematical results. There are analogies between chemical reactors and certain biological systems. One such analogy is rather obvious: a single living organism is a dynamic structure built of molecules and ions, many of which react and diffuse. Other analogies are less obvious: for example, the electric potential of a membrane can diffuse like a chemical and of course can interact with real chemical species, ions, which are transported through the membrane. These facts gave rise to Hodgkin's and Huxley's celebrated model for the propagation of nerve signals. On the level of populations, individuals interact and move about, and so it is not surprising that here again the simplest continuous space-time interaction-migration models have the same general appearance as those for diffusing and reacting chemical systems.

**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.

*Geometrical Probability and Biological Structures: Buffon's 200th Anniversary* R. E. Miles, J. Serra, 2013-03-08

**The Geometry of Population Genetics** Ethan Akin, 2013-04-09 The differential equations which model the action of selection and recombination are nonlinear equations which are impossible to solve explicitly. It is even difficult to describe in general the qualitative behavior of solutions. Recently, Shahshahani began using differential geometry to study these

equations 28 with this monograph I hope to show that his ideas illuminate many aspects of population genetics. Among these are his proof and clarification of Fisher's Fundamental Theorem of Natural Selection and Kimura's Maximum Principle and also the effect of recombination on entropy. We also discover the relationship between two classic measures of genetic distance: the  $\chi^2$  measure and the arc cosine measure. There are two large applications. The first is a precise definition of the biological concept of degree of epistasis which applies to general i.e. frequency dependent forms of selection. The second is the unexpected appearance of cycling. We show that cycles can occur in the two locus two allele model of selection plus recombination even when the fitness numbers are constant i.e. no frequency dependence. This work is addressed to two different kinds of readers which accounts for its mode of organization. For the biologist Chapter I contains a description of the entire work with brief indications of a proof for the harder results. I imagine a reader with some familiarity with linear algebra and systems of differential equations. Ideal background is Hirsch and Smale's text 15.

**Competition for Space and the Structure of Ecological Communities** P. Yodzis, 2013-03-08. This volume is an investigation of interspecific competition for space particularly among sessile organisms both plant and animal and its consequences for community structure. While my own contribution and the bulk of this volume lies in mathematical analysis of the phenomenon I have also tried to summarize the most important natural historical aspects of these communities and have devoted much effort to relating the mathematical results to observations of the natural world. Thus the volume has both a synthetic and an analytic aspect. On the one hand I have been struck by certain similarities among many communities from forests to mussel beds in which spatial competition is important. On the other hand I have analyzed this phenomenon by means of reaction dispersal models. Finally the mathematical analysis has suggested a conceptual framework for these communities which I believe further unifies and illuminates the field data. A focal perception of this work is that just as niche relations provide an appropriate expression of the influence of resource competition on community structure so do dominance relations provide an appropriate expression of the influence of spatial competition.

The Golden Age of Theoretical Ecology: 1923-1940 F.M. Scudo, J.R. Ziegler, 2013-03-08. This is the part of any book where the authors usually discuss why they wrote it. We hope however that the text will justify itself. In fact any well trained ecologist will immediately grasp the significance of these seminal works. We have therefore tried to keep our interpretive comments to a minimum. Students of modern theoretical ecology will want to contrast the papers in this collection with their modern derivatives. We believe that those who do so will be surprised if not amazed by the ecological sophistication and intellectual power of the earlier works. They will stand as a challenge to those who study them and we hope provide a standard for the quality of their work. By presenting this collection of works most of them not easily available and/or for the first time in English we hope to help them attain the high level of recognition they deserve. We are also enabling readers not sufficiently familiar with Italian to acquire enough of a background to properly follow the works in French not presented here by including Volterra's *Variazioni e fluttuazioni del*

numero d indi vidui in specie animali convi venti 1927 still available in the original edition The Measurement of Biological Shape and Shape Change F. L. Bookstein, 2013-03-13 **Theoretical Approaches to Complex Systems** R. Heim, G. Palm, 2013-03-08 **Questions of Uniqueness and Resolution in Reconstruction from Projections** M. B. Katz, 2013-03-13 Reconstruction from projections has revolutionized radiology and has now become one of the most important tools of medical diagnosis The E M I Scanner is one example In this text some fundamental theoretical and practical questions are resolved Despite recent research activity in the area the crucial subject of the uniqueness of the reconstruction and the effect of noise in the data posed some unsettled fundamental questions In particular Kennan Smith proved that if we describe an object by a  $C^\infty$  function i e infinitely differentiable with compact support then there are other objects with the same shape i e support which can differ almost arbitrarily and still have the same projections in finitely many directions On the other hand he proved that objects in finite dimensional function spaces are uniquely determined by a single projection for almost all angles i e except on a set of measure zero Along these lines Herman and Rowland in Three Methods for reconstructing objects from x rays a comparative study 1973 showed that reconstructions obtained from the commonly used algorithms can grossly misrepresent the object and that the algorithm which produced the best reconstruction when using noiseless data gave unsatisfactory results with noisy data Equally important are reports in Science and personal communications by radiologists indicating that in medical practice failure rates of reconstruction vary from four to twenty percent within this work the mathematical dilemma posed by Kennan Smith s result is discussed and clarified Mathematical and Statistical Estimation Approaches in Epidemiology Gerardo Chowell, James M. Hayman, Luís M. A. Bettencourt, Carlos Castillo-Chavez, 2009-06-06 Mathematical and Statistical Estimation Approaches in Epidemiology compiles theoretical and practical contributions of experts in the analysis of infectious disease epidemics in a single volume Recent collections have focused in the analyses and simulation of deterministic and stochastic models whose aim is to identify and rank epidemiological and social mechanisms responsible for disease transmission The contributions in this volume focus on the connections between models and disease data with emphasis on the application of mathematical and statistical approaches that quantify model and data uncertainty The book is aimed at public health experts applied mathematicians and scientists in the life and social sciences particularly graduate or advanced undergraduate students who are interested not only in building and connecting models to data but also in applying and developing methods that quantify uncertainty in the context of infectious diseases Chowell and Brauer open this volume with an overview of the classical disease transmission models of Kermack McKendrick including extensions that account for increased levels of epidemiological heterogeneity Their theoretical tour is followed by the introduction of a simple methodology for the estimation of the basic reproduction number  $R_0$  The use of this methodology is illustrated using regional data for 1918 1919 and 1968 in uenza pandemics Complexity, Language, and Life: Mathematical Approaches John L. Casti, Anders

Karlqvist,2012-12-06 In May 1984 the Swedish Council for Scientific Research convened a small group of investigators at the scientific research station at Abisko Sweden for the purpose of examining various conceptual and mathematical views of the evolution of complex systems The stated theme of the meeting was deliberately kept vague with only the purpose of discussing alternative mathematically based approaches to the modeling of evolving processes being given as a guideline to the participants In order to limit the scope to some degree it was decided to emphasize living rather than nonliving processes and to invite participants from a range of disciplinary specialities spanning the spectrum from pure and applied mathematics to geography and analytic philosophy The results of the meeting were quite extraordinary while there was no intent to focus the papers and discussion into predefined channels an immediate self organizing effect took place and the deliberations quickly oriented themselves into three main streams conceptual and formal structures for characterizing system complexity evolutionary processes in biology and ecology the emergence of complexity through evolution in natural languages The chapters presented in this volume are not the proceedings of the meeting Following the meeting the organizers felt that the ideas and spirit of the gathering should be preserved in some written form so the participants were each requested to produce a chapter explicating the views they presented at Abisko written specifically for this volume The results of this exercise form the volume you hold in your hand

**Theory of Nonlinear Age-Dependent Population Dynamics** Glenn F. Webb,1985-01-05 **Systems Theory in Immunology** C. Bruni,G. Doria,G. Koch,R. Strom,2013-03-08 This volume collects the contributions presented at the Working Conference on System Theory in Immunology held in Rome May 1978 The aim of the Conference was to bring together immunologists on one side and experts in system theory and applied mathematics on the other in order to identify problems of common interest and to establish a network of joint effort toward their solution The methodologies of system theory for processing experimental data and for describing dynamical phenomena could indeed contribute significantly to the understanding of basic immunological facts Conversely the complexity of experimental results and of interpretative models should stimulate mathematicians to formulate new problems and to design appropriate procedures of analysis The multitude of scientific publications in theoretical biology appeared in recent years confirms this trend and calls for extensive interaction between mathematics and immunology The material of this volume is divided into five sections along the scheme of the Conference program

*Journal of Mathematical Biology*,1981 **Stochastic Modelling In Biology: Relevant Mathematical Concepts And Recent Applications** Petre Tautu,1990-12-05 These proceedings focus on future prospects as well as on the present status in some important areas of applied probability and mathematical biology Some papers have educational intentions regarding the mathematical modelling of special biological situations The workshop was the third one in Heidelberg dealing with stochastic modelling in biology e.g. cell biology embryology oncology epidemiology and genetics

*The Dynamics of Physiologically Structured Populations* Johan A. Metz,Odo

Diekmann,2014-03-11 *Cohort Analysis in Social Research* W.M. Mason,S. Fienberg,2012-12-06 The existence of the

present volume can be traced to methodological concerns about cohort analysis all of which were evident throughout most of the social sciences by the late 1970s For some social scientists they became part of a broader discussion concerning the need for new analytical techniques for research based on longitudinal data In 1976 the Social Science Research Council SSRC with funds from the National Institute of Education established a Committee on the Methodology of Longitudinal Research The scholars who comprised this committee are listed at the front of this volume As part of the efforts of this Committee an interdisciplinary conference on cohort analysis was held in the summer of 1979 in Snowmass Colorado Much of the work presented here stems from that conference the purpose of which was to promote the development of general methodological tools for the study of social change The conference included five major presentations by 1 William Mason and Herbert Smith 2 Karl J6reskog and Dag S6rbom 3 Gregory Markus 4 John Hobcraft Jane Menken and Samuel Preston and 5 Stephen Fienberg and William Mason The formal presentations were each followed by extensive discussion which involved as participants Paul Baltes William Butz Philip Converse Otis Dudley Duncan David Freedman William Meredith John Nesselroade Daniel Price Thomas Pullum Peter Read Matilda White Riley Norman Ryder Warren Sanderson Warner Schaie Burton Singer Nancy Tuma Harrison White and Halliman Winsborough



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