F. C. Hoppensteadt

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   Mathematical Methods of Population Biology Frank Charles Hoppensteadt,1982-02-26 An introduction to mathematical methods used in the study of population phenomena including models of total population and population age structure models of random population events presented in terms of Markov chains and methods used to uncover qualitative behavior of more complicated difference equations   Mathematical Methods of Population Biology William Brandon,1976

   Statistical and Mathematical Methods in Population Dynamics R. Cavalloro,1984-06-01 Modelling and estimation of pest population Data collection and analysis in pest control Methods for pest control Pest management systems   *Introduction to Mathematical Methods in Population Theory* Jacek Banasiak,2024-12-20 This textbook provides an introduction to the mathematical methods used to analyse deterministic models in life sciences including population dynamics epidemiology and ecology The book covers both discrete and continuous models The presentation emphasises the solvability of the equations appearing in the mathematical modelling of natural phenomena and in the absence of solutions the analysis of their relevant properties Of particular interest are methods that allow for determining the long term behaviour of solutions Thus the book covers a range of techniques from the classical Lyapunov theorems and positivity methods based on the Perron Frobenius theorem to the more modern monotone dynamical system approach The book offers a comprehensive presentation of the Lyapunov theory including the inverse Lyapunov theorems with applications to perturbed equations and Vidyasagar theorem Furthermore it provides a coherent presentation of the foundations of the theory of monotone dynamical systems with its applications to epidemiological models Another feature of the book is the derivation of the McKendrick von Foerster equation from the discrete Leslie model and the analysis of the long term behaviour of its solutions Designed for upper undergraduate courses and beyond this textbook is written for students and researchers looking to master the mathematics of the tools commonly used to analyse life science models It therefore goes somewhat deeper into mathematics than typical books at this level but should be accessible to anyone with a good command of calculus with elements of real and complex analysis and linear algebra the necessary concepts are collected in the appendices   Mathematical Methods for Population Genetics G. Dahlberg,1946-11-30   **Mathematical Methods for Analysis of a Complex Disease** F. C. Hoppensteadt,2011-09-23 Complex diseases involve most aspects of population biology including genetics demographics epidemiology and ecology Mathematical methods including differential difference and integral equations numerical analysis and random processes have been used effectively in all of these areas The aim of this book is to provide sufficient background in such mathematical and computational methods to enable the reader to better understand complex systems in biology medicine and the life sciences It introduces concepts in mathematics to study population phenomena with the goal of describing complicated aspects of a disease such as malaria involving several species The book is based on a graduate course in computational biology and applied mathematics taught at the Courant Institute of Mathematical Sciences in fall 2010 The mathematical

level is kept to essentially advanced undergraduate mathematics and the results in the book are intended to provide readers with tools for performing more in depth analysis of population phenomena **Some Mathematical Questions in Biology** Alan Hastings,1989-12-31 Population biology has had a long history of mathematical modeling The 1920s and 1930s saw major strides with the work of Lotka and Volterra in ecology and Fisher Haldane and Wright in genetics In recent years much more sophisticated mathematical techniques have been brought to bear on questions in population biology Simultaneously advances in experimental and field work have produced a wealth of new data While this growth has tended to fragment the field one unifying theme is that similar mathematical questions arise in a range of biological contexts This volume contains the proceedings of a symposium on Some Mathematical Questions in Biology held in Chicago in 1987 The papers all deal with different aspects of population biology but there are overlaps in the mathematical techniques used for example dynamics of nonlinear differential and difference equations form a common theme The topics covered are cultural evolution multilocus population genetics spatially structured population genetics chaos and the dynamics of epidemics and the dynamics of ecological communities   Discrete Mathematical Models in Population Biology Saber N. Elaydi,Jim M. Cushing,2025-01-03 This text lays the foundation for understanding the beauty and power of discrete time models It covers rich mathematical modeling landscapes each offering deep insights into the dynamics of biological systems A harmonious balance is achieved between theoretical principles mathematical rigor and practical applications Illustrative examples numerical simulations and empirical case studies are provided to enhance mastery of the subject and facilitate the translation of discrete time mathematical biology into real world challenges Mainly geared to upper undergraduates the text may also be used in graduate courses focusing on discrete time modeling Chapters 1 4 constitute the core of the text Instructors will find the dependence chart quite useful when designing their particular course This invaluable resource begins with an exploration of single species models where frameworks for discrete time modeling are established Competition models and Predator prey interactions are examined next followed by evolutionary models structured population models and models of infectious diseases The consequences of periodic variations seasonal changes and cyclic environmental factors on population dynamics and ecological interactions are investigated within the realm of periodically forced biological models This indispensable resource is structured to support educational settings A first course in biomathematics introducing students to the fundamental mathematical techniques essential for biological research A modeling course with a concentration on developing and analyzing mathematical models that encapsulate biological phenomena An advanced mathematical biology course that offers an in depth exploration of complex models and sophisticated mathematical frameworks designed to tackle advanced problems in biology With its clear exposition and methodical approach this text educates and inspires students and professionals to apply mathematical biology to real world situations While minimal knowledge of calculus is required the reader should have a solid mathematical background in linear algebra **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 dis cipline with its own repertoire of techniques The purpose of the Workshop on sto chastic 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 ap plicability 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 SDE s has found a rich source of new problems in the fields of population genetics and neuro biology This is especially so for the relatively new and growing area of infinite dimensional i e measure valued or distribution valued SDE s The papers in II and III and some of the papers in the remaining categories represent these areas **Mathematical Methods for Analysis of a Complex Disease** Frank Charles Hoppensteadt,2011 Complex diseases involve most aspects of population biology including genetics demographics epidemiology and ecology Mathematical methods including differential difference and integral equations numerical analysis and random processes have been used effectively in all of these areas The aim of this book is to provide sufficient background in such mathematical and computational methods to enable the reader to better understand complex systems in biology medicine and the life sciences It introduces concepts in mathematics to study population phenomena with the goal of describing c **Methods and Models in Mathematical Biology** Johannes Müller,Christina Kuttler,2015-08-13 This book developed from classes in mathematical biology taught by the authors over several years at the Technische Universit t M nchen The main themes are modeling principles mathematical principles for the analysis of these models and model based analysis of data The key topics of modern biomathematics are covered ecology epidemiology biochemistry regulatory networks neuronal networks and population genetics A variety of mathematical methods are introduced ranging from ordinary and partial differential equations to stochastic graph theory and branching processes A special emphasis is placed on the interplay between stochastic and deterministic models **Math and Bio 2010** Lynn Arthur Steen,2005 Math and bio 2010 grew out of Meeting the Challenges Education across the Biological Mathematical and Computer Sciences a joint project of the Mathematical Association of America MAA the National Science Foundation Division of Undergraduate Education NSF DUE the National Institute of General Medical Sciences NIGMS the American Association for the Advancement of Science AAAS and the American Society for Microbiology ASM Foreword p vi *Population Dynamics: Algebraic And Probabilistic Approach* Utkir A Rozikov,2020-04-22 A population is a summation of all the organisms of the

same group or species which live in a particular geographical area and have the capability of interbreeding The main mathematical problem for a given population is to carefully examine the evolution time dependent dynamics of the population The mathematical methods used in the study of this problem are based on probability theory stochastic processes dynamical systems nonlinear differential and difference equations and non associative algebras A state of a population is a distribution of probabilities of the different types of organisms in every generation Type partition is called differentiation for example sex differentiation which defines a bisexual population This book systematically describes the recently developed theory of bisexual population and mainly contains results obtained since 2010 The book presents algebraic and probabilistic approaches in the theory of population dynamics It also includes several dynamical systems of biological models such as dynamics generated by Markov processes of cubic stochastic matrices dynamics of sex linked population dynamical systems generated by a gonosomal evolution operator dynamical system and an evolution algebra of mosquito population and ocean ecosystems The main aim of this book is to facilitate the reader s in depth understanding by giving a systematic review of the theory of population dynamics which has wide applications in biology mathematics medicine and physics **Statistical and Mathematical Methods in Population Dynamics and Pest Control** ,1984 *Dynamical Models in Biology* Miklós Farkas,2001-06-15 Dynamic Models in Biology offers an introduction to modern mathematical biology This book provides a short introduction to modern mathematical methods in modeling dynamical phenomena and treats the broad topics of population dynamics epidemiology evolution immunology morphogenesis and pattern formation Primarily employing differential equations the author presents accessible descriptions of difficult mathematical models Recent mathematical results are included but the author s presentation gives intuitive meaning to all the main formulae Besides mathematicians who want to get acquainted with this relatively new field of applications this book is useful for physicians biologists agricultural engineers and environmentalists Key Topics Include Chaotic dynamics of populations The spread of sexually transmitted diseases Problems of the origin of life Models of immunology Formation of animal hide patterns The intuitive meaning of mathematical formulae explained with many figures Applying new mathematical results in modeling biological phenomena Miklos Farkas is a professor at Budapest University of Technology where he has researched and instructed mathematics for over thirty years He has taught at universities in the former Soviet Union Canada Australia Venezuela Nigeria India and Columbia Prof Farkas received the 1999 Bolyai Award of the Hungarian Academy of Science and the 2001 Albert Szentgyorgyi Award of the Hungarian Ministry of Education A down to earth introduction to the growing field of modern mathematical biology Also includes appendices which provide background material that goes beyond advanced calculus and linear algebra **Mathematics Today Twelve Informal Essays** L.A. Steen,2012-12-06 The objective of the present book of essays is to convey to the intelligent nonmathematician something of the nature development and use of mathe matical concepts particularly those that have found application in current scientific research The idea of assembling

such a volume goes back at least to 1974 when it was discussed by the then newly formed Joint Projects Committee for Mathematics JPCM of the American Mathematical Soci ety the Mathematical Association of America and the Society for Indus trial and Applied Mathematics Currently the nine members of the JPCM are Saunders Mac Lane Chairman of the University of Chicago Frederick J Almgren Jr of Princeton University Richard D Anderson of Louisiana State University George E Carrier of Harvard University Hirsh G Cohen ofthe International Business Machines Corporation Richard C DiPrima of Rensselaer Polytechnic Institute Robion C Kirby of the University of California at Berkeley William H Kruskal of the University of Chicago and George D Mostow of Yale University The JPCM decided to make production of this volume its first major proj ect and requested the Conference Board of the Mathematical Sciences CBMS of which its three sponsoring societies are all member organiza tions to approach the National Science Foundation on its behalffor support of the undertaking A proposal submitted by the C BMS in December 1974 and in revised form in July 1975 was granted by the Foundation in May 1976 and work on assembling the volume got under way   Mathematics for the Biosciences Michael R. Cullen,1983   *Mathematical Methods in Biology* J. David Logan,William Wolesensky,2009-08-17 A one of a kind guide to using deterministic and probabilistic methods for solving problems in the biological sciences Highlighting the growing relevance of quantitative techniques in scientific research Mathematical Methods in Biology provides an accessible presentation of the broad range of important mathematical methods for solving problems in the biological sciences The book reveals the growing connections between mathematics and biology through clear explanations and specific interesting problems from areas such as population dynamics foraging theory and life history theory The authors begin with an introduction and review of mathematical tools that are employed in subsequent chapters including biological modeling calculus differential equations dimensionless variables and descriptive statistics The following chapters examine standard discrete and continuous models using matrix algebra as well as difference and differential equations Finally the book outlines probability statistics and stochastic methods as well as material on bootstrapping and stochastic differential equations which is a unique approach that is not offered in other literature on the topic In order to demonstrate the application of mathematical methods to the biological sciences the authors provide focused examples from the field of theoretical ecology which serve as an accessible context for study while also demonstrating mathematical skills that are applicable to many other areas in the life sciences The book s algorithms are illustrated using MATLAB but can also be replicated using other software packages including R Mathematica and Maple however the text does not require any single computer algebra package Each chapter contains numerous exercises and problems that range in difficulty from the basic to more challenging to assist readers with building their problem solving skills Selected solutions are included at the back of the book and a related Web site features supplemental material for further study Extensively class tested to ensure an easy to follow format Mathematical Methods in Biology is an excellent book for mathematics and biology courses at the upper undergraduate and

graduate levels It also serves as a valuable reference for researchers and professionals working in the fields of biology ecology and biomathematics **Statistical and Mathematical Methods in Population Dynamics and Pest Control** Raffaele Cavalloro,1984 *Mathematical Methods and Models in the Biological Sciences: Linear and one-dimensional theory* Martin M. Eisen,1988

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