MATHEMATICAL POPULATION STUDIES

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A Short History of Mathematical Population Dynamics Nicolas Bacaër,2011-02-01 As Eugene Wigner stressed mathematics has proven unreasonably effective in the physical sciences and their technological applications The role of mathematics in the biological medical and social sciences has been much more modest but has recently grown thanks to the simulation capacity offered by modern computers This book traces the history of population dynamics a theoretical subject closely connected to genetics ecology epidemiology and demography where mathematics has brought significant insights It presents an overview of the genesis of several important themes exponential growth from Euler and Malthus to the Chinese one child policy the development of stochastic models from Mendel s laws and the question of extinction of family names to percolation theory for the spread of epidemics and chaotic populations where determinism and randomness intertwine The reader of this book will see from a different perspective the problems that scientists face when governments ask for reliable predictions to help control epidemics AIDS SARS swine flu manage renewable resources fishing quotas spread of genetically modified organisms or anticipate demographic evolutions such as aging **mathematical population dynamics** Ovide Arino,2020-12-18 This book is an outcome of the Second International Conference on Mathematical Population Dynamics It is intended for mathematicians statisticians biologists and medical researchers who are interested in recent advances in analyzing changes in populations of genes cells and tumors **Mathematical Population Genetics** W. J. Ewens,1979-11

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An Introduction to Mathematical Population Dynamics Mimmo Iannelli,Andrea Pugliese,2015-01-23 This book is an introduction to mathematical biology for students with no experience in biology but who have some mathematical background The work is focused on population dynamics and ecology following a tradition that goes back to Lotka and Volterra and includes a part devoted to the spread of infectious diseases a field where mathematical modeling is extremely popular These themes are used as the area where to understand different types of mathematical modeling and the possible

meaning of qualitative agreement of modeling with data The book also includes a collections of problems designed to approach more advanced questions This material has been used in the courses at the University of Trento directed at students in their fourth year of studies in Mathematics It can also be used as a reference as it provides up to date developments in several areas *mathematical population dynamics* Ovide Arino,2020-12-17 This book is an outcome of the Second International Conference on Mathematical Population Dynamics It is intended for mathematicians statisticians biologists and medical researchers who are interested in recent advances in analyzing changes in populations of genes cells and tumors **Advances In Mathematical Population Dynamics -- Molecules, Cells And Man - Proceedings Of The 4th International Conference On Mathematical Population Dynamics** O Arino,David E Axelrod,Marek Kimmel,1997-12-04 This book presents a new approach to the subject of cosmology It fully exploits Einstein s theory of general relativity It is found that the most general formal expression of the theory replaces the 10 component tensor formalism with a 16 component quaternion formalism This leads to a unified field theory where one field incorporates gravitation and electromagnetism The theory predicts an oscillating universe cosmology with a spiral configuration Dark matter is explained in terms of a sea of particle antiparticle pairs each in a particular derived ground state This leads to an explanation for the separation between matter and antimatter in the universe There is a brief discussion of black holes and pulsars The final chapter delves into philosophical considerations such as the different types of truth positivism versus realism and a discussion of the role of the Mach principle in physics and cosmology a **Mathematical Population Dynamics** Arino,2017-07-11 **mathematical population dynamics** Arino,1991-04-29 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 com munity in recent years It was not until the twentieth century however that the study of population predominantly human population achieved its math ematical 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 de velopment and conclusions to formulate sound mathematical population analy sis 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 population genetics Warren John Ewens,2004 *Mathematical Population Genetics 1* Warren J. Ewens,2012-11-06 This is the first of a planned two volume work discussing the mathematical aspects of population genetics with an emphasis on evolutionary theory This volume draws heavily from the

author s 1979 classic but it has been revised and expanded to include recent topics which follow naturally from the treatment in the earlier edition such as the theory of molecular population genetics   Mathematical Population Genetics 1 Warren J. Ewens,2004-01-09 This is the first of a planned two volume work discussing the mathematical aspects of population genetics with an emphasis on evolutionary theory This volume draws heavily from the author s 1979 classic but it has been revised and expanded to include recent topics which follow naturally from the treatment in the earlier edition such as the theory of molecular population genetics   **Applied Mathematical Demography** Nathan Keyfitz,Hal Caswell,2005-11-14 Focuses on applications of demographic models This book introduces the life table to describe age specific mortality and uses it to develop theory for stable populations and the rate of population increase This theory is then revisited in the context of matrix models for stage classified as well as age classified populations   Mathematical Population Genetics: Lecture Notes Warren J. Ewens,2014-11-08 Mathematical Population Genetics Lecture NotesBy Warren J Ewens   Proceedings of the Conference on Mathematical Population Dynamics Ovide Arino,Conference on Mathematical Population Dynamics,Marek Kimmel,Matthew Witten,Cell Kinetics Society,Department of Mathematics, University of Mississippi,1989   **Mathematical Theories of Populations** Frank Hoppensteadt,1975-12-01 A basic model in population age structure is studied and then applied and extended to several population phenomena   Computational and Mathematical Population Dynamics Necibe Tuncer,Maia Martcheva,Olivia Prosper,Lauren Childs,2023-01-12 This book is a collection of works that represent the recent advancements in computational and mathematical methods applied to population dynamics It concentrates on both development of new tools as well as on innovative use of existing tools to obtain new understanding of biological systems The volume introduces new state of the art techniques for defining and solving numerically control problems in mathematical biology in which the control appears linearly Such problems produce simpler optimal controls that can be implemented in practice The book further develops tools for fitting multi scale models to multi scale data and studying the practical identifiability of the parameters from multi scale data Novel model of Zika with Wolbahia infection in mosquitoes suggests that the most suitable control strategy to control Zika in the absence of Wolbahia is killing mosquitoes but the most suitable strategy when mosquitoes are Wolbahia infected is the treatment of humans A completely novel methodology of developing discrete continuous hybrid models of multi species interactions is also introduced together with avantgarde techniques for discrete continuous hybrid models analysis A mathematical model leads to new observations of the within host virus dynamics and its interplay with the immune responses In particular it is observed that the parameters promoting CTL responses need to be boosted over parameters promoting antibody production to obtain a biologically relevant steady state A novel stochastic model of COVID 19 investigates quarantine and lock down as important strategies for control and elimination of COVID 19   **Mathematical Models in Population Biology and Epidemiology** Fred Brauer,Carlos Castillo-Chavez,2013-03-09 As the world population exceeds the six billion mark questions of population explosion of how

many people the earth can support and under which conditions become pressing Some of the questions and challenges raised can be addressed through the use of mathemathical models but not all The goal of this book is to search for a balance between simple and analyzable models and unsolvable models which are capable of addressing important questions such as these Part I focusses on single species simple models including those which have been used to predict the growth of human and animal population in the past Single population models are in some sense the building blocks of more realistic models the subject of Part II Their role is fundamental to the study of ecological and demographic processes including the role of population structure and spatial heterogeneity the subject of Part III This book which includes both examples and exercises will be useful to practitioners graduate students and scientists working in the field   Mathematical Population Dynamics Ovide Arino,David E. Axelrod,Marek Kimmel,1995-01-01

Whispering the Secrets of Language: An Mental Quest through **Mathematical Population**

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