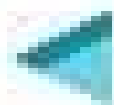


Mathematical Population Dynamics and Epidemiology in Temporal and Spatio-Temporal Domains



**Harkaran Singh
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Mathematical Population

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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 **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 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**

Genetics And Evolution Of Bacterial Cooperation Volker Hosel,Christina Kuttler,Johannes Muller,2020-03-13 Social life of bacteria is in the focus of recent research Bacteria are simple enough to be accessible by science but still complex enough to show cooperation division of labor bet hedging cross talk and synchronized activities and a rich variety of social traits A central question of evolutionary theory is the explanation why this social life did develop and why these systems are evolutionary stable This book introduces the reader into the theory of evolution covering classical models and as well as recent developments The theory developed is used to represent the up to date understanding of social bacteria This book will be useful for students and lecturers interested in mathematical evolutionary theory as well as for researchers as a reference

Mathematical Population Dynamics and Epidemiology in Temporal and Spatio-Temporal Domains Harkaran Singh,Joydip Dhar,2018-12-07 Mankind now faces even more challenging environment and health related problems than ever before

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Mathematical Properties of Population-Genetic Statistics Noah A. Rosenberg,2025-05-20 A pedagogical monograph showing how to use the mathematical properties of population genetic statistics to better interpret genetic data

MATHEMATICAL MODELS OF LIFE SUPPORT SYSTEMS - Volume II Valeri I. Agoshko , Jean-Pierre Puel,2009-10-10 Mathematical Models of Life Support Systems is a component of Encyclopedia of Mathematical Sciences in which is part of the global Encyclopedia of Life Support Systems EOLSS an integrated compendium of twenty one Encyclopedias The Theme is organized into several topics which represent the main scientific areas of the theme The first topic Introduction to Mathematical Modeling discusses the foundations of mathematical modeling and computational experiments which are formed to support new methodologies of scientific research The succeeding topics are Mathematical Models in Water Sciences Climate Environmental Pollution and Degradation Energy Sciences Food and Agricultural Sciences Population Immunology Medical Sciences and Control of Catastrophic Processes These two volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs [mathematical population dynamics](#)

Arino,1991-04-29 Dynamical Systems and Their Applications in Biology Shigui Ruan,Gail Susan Kohl Wolkowicz,Jianhong Wu,Fields Institute for Research in Mathematical Sciences,2003-01-01 This volume is based on the proceedings of the International Workshop on Dynamical Systems and their Applications in Biology held at the Canadian Coast Guard College on Cape Breton Island Nova Scotia Canada It presents a broad picture of the current research surrounding applications of dynamical systems in biology particularly in population biology The book contains 19 papers and includes articles on the qualitative and or numerical analysis of models involving ordinary partial functional and stochastic differential equations Applications include epidemiology population dynamics and physiology The material is suitable for graduate students and research mathematicians interested in ordinary differential equations and their applications in biology Also available by Ruan Wolkowicz and Wu is Differential Equations with Applications to Biology Volume 21 in the AMS series Fields Institute Communications

Abusing Science Philip Kitcher,1983-06-23 Abusing Science is a manual for intellectual self defense the most complete available for presenting the case against Creationist pseudo science It is also a lucid exposition of the nature and methods of genuine science The book begins with a concise introduction to evolutionary theory for non scientists and closes with a rebuttal of the charge that this theory undermines religious and moral values It will astonish many readers that this case must still be made in the 1980s but since it must Philip Kitcher makes it irresistibly and forcefully Not long ago a federal court struck down an Arkansas law requiring that scientific Creationism be taught in high school science classes Contemporary Creationists may have lost one legal battle but their cause continues to thrive Their efforts are directed not only at state legislatures but at local school boards and textbook publishers As Kitcher argues in this rigorous but highly readable book the integrity of science is under attack The methods of inquiry used in evolutionary biology are those which are used throughout the sciences Moreover modern biology is intertwined with other fields of science physics chemistry astronomy and geology Creationists hope to persuade the public that education in science should be torn apart to make room for a literal reading of Genesis Abusing Science refutes the popular complaint that the scientific establishment is dogmatic and intolerant denying academic freedom to the unorthodox It examines Creationist claims seriously and systematically one by one showing clearly just why they are at best misguided at worst ludicrous

An Introduction to Structured Population Dynamics J. M. Cushing,1998-01-01 Interest in the temporal fluctuations of biological populations can be traced to the dawn of civilization How can mathematics be used to gain an understanding of population dynamics This monograph introduces the theory of structured population dynamics and its applications focusing on the asymptotic dynamics of deterministic models This theory bridges the gap between the characteristics of individual organisms in a population and the dynamics of the total population as a whole In this monograph many applications that illustrate both the theory and a wide variety of biological issues are given along with an interdisciplinary case study that illustrates the connection of models with the data and the experimental documentation of model predictions The author also discusses the use of discrete and

continuous models and presents a general modeling theory for structured population dynamics Cushing begins with an obvious point individuals in biological populations differ with regard to their physical and behavioral characteristics and therefore in the way they interact with their environment Studying this point effectively requires the use of structured models Specific examples cited throughout support the valuable use of structured models Included among these are important applications chosen to illustrate both the mathematical theories and biological problems that have received attention in recent literature

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Optimal Control of Age-structured Populations in Economy, Demography, and the Environment Raouf Boucekkine, Natali Hritonenko, Yuri Yatsenko, 2013-05-13 This book covers a wide range of topics within mathematical modelling and the optimization of economic demographic technological and environmental phenomena Each chapter is written by experts in their field and represents new advances in modelling theory and practice These essays are exemplary of the fruitful interaction between theory and practice when exploring global and local changes The unifying theme of the book is the use of mathematical models and optimization methods to describe age structured populations in economy demography technological change and the environment Emphasis is placed on deterministic dynamic models that take age or size structures delay effects and non standard decision variables into account In addition the contributions deal with the age structure of assets resources and populations under study Interdisciplinary modelling has enormous potential for discovering new insights in global and regional development Optimal Control of Age structured Populations in Economy Demography and the Environment is a rich and excellent source of information on state of the art modelling expertise and references The book provides the necessary mathematical background for readers from different areas such as applied sciences management sciences and operations research which helps guide the development of practical models As well as this the book also surveys the current practice in applied modelling and looks at new research areas for a general mathematical audience This book will be of interest primarily to researchers postgraduate students as well as a wider scientific community including those focussing on the subjects of applied mathematics environmental sciences economics demography management and operations research

Dynamic Population Models Robert Schoen, 2007-05-05 Dynamic Population Models is the first book to comprehensively discuss and synthesize the emerging field of dynamic modeling Incorporating the latest research it includes thorough discussions of population growth and momentum under gradual fertility declines the impact of changes in the timing of events on fertility measures and the complex relationship between period and cohort measures The book is designed to be accessible to those with only a minimal knowledge of calculus *Encyclopedic Dictionary of Mathematics* Nihon Sūgakkai, 1993 V 1 A N v 2 O Z Apendices and indexes Mathematical Population Dynamics: Analysis of Heterogeneity Volume One: theory of Epidemics Ovide Arino, 1995

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