

Physiologically Structured Population Dynamics: A Modeling Perspective

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In classical population dynamic models all the individuals in a population are assumed to be identical or only population averages are considered. The state of the population is therefore the number of individuals or the total amount of biomass in the population. The mathematical model is a first-order ordinary differential equation (ODE) that specifies the time derivative of this population state. Subsequently, the dynamics of an ecosystem where populations interact with each other and with their abiotic environment is usually described by a system of ODEs. The classical models are sometimes called unstructured population models, as opposed to structured population models, which take into account the differences between individuals and characterize an individual by some state. The development of this state is modeled from birth till death, often using a first-order ODE that specifies the time derivative of the individual state. The model is complemented with models for the birth and death of individuals. The structured population model is derived straight forwardly from the individual model using balance laws. The state of a population is no longer a single number; it is the distribution of the individuals over their possible states. If the number of individuals is large, this distribution is continuous instead of discrete. If, in addition, the distribution is a density with respect to the individual state, the population model can be written as a partial differential equation (PDE). The first structured

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Dynamics Of Physiologically Structured Populations

Tanya M. Shenk, Alan B. Franklin



Dynamics Of Physiologically Structured Populations:

The Dynamics of Physiologically Structured Populations Johan A. Metz, Odo Diekmann, 2014-03-11 **The Dynamics of Physiologically Structured Populations** Philip H. Todd, 1974 The Dynamics of Physiologically Structured Populations Steven Henry Strogatz, 1986 *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 **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

Demography of Population Health, Aging and Health Expenditures Christos H. Skiadas, Charilaos

Skiadas,2020-08-24 This book provides theoretical and applied material for estimating vital parts of demography and health issues including the healthy aging process along with calculating the healthy life years lost to disability It further includes the appropriate methodology for the optimum health expenditure allocation Through providing data analysis statistical and stochastic methodology probability approach and important applications the book explores topics such as aging and mortality birth death processes self perceived age life time and survival as well as pension and labor force By providing a methodological approach to health problems in demography and society including and quantifying important parameters this book is a valuable guide for researchers theoreticians and practitioners from various disciplines *Differential Equations*

with Applications in Biology, Physics, and Engineering Goldstein,2017-10-05 Suitable as a textbook for a graduate seminar in mathematical modelling and as a resource for scientists in a wide range of disciplines Presents 22 lectures from an international conference in Leibnitz Austria no date mentioned explaining recent developments and results in differential equatio Stochastic Processes, Statistical Methods, and Engineering Mathematics Anatoliy Malyarenko,Ying Ni,Milica

Rančić,Sergei Silvestrov,2023-01-26 The goal of the 2019 conference on Stochastic Processes and Algebraic Structures held in SPAS2019 V ster s Sweden from September 30th to October 2nd 2019 was to showcase the frontiers of research in several important areas of mathematics mathematical statistics and its applications The conference was organized around the following topics 1 Stochastic processes and modern statistical methods 2 Engineering mathematics 3 Algebraic structures and their applications The conference brought together a select group of scientists researchers and practitioners from the industry who are actively contributing to the theory and applications of stochastic and algebraic structures methods and models The conference provided early stage researchers with the opportunity to learn from leaders in the field to present their research as well as to establish valuable research contacts in order to initiate collaborations in Sweden and abroad New methods for pricing sophisticated financial derivatives limit theorems for stochastic processes advanced methods for statistical analysis of financial data and modern computational methods in various areas of applied science can be found in this book The principal reason for the growing interest in these questions comes from the fact that we are living in an extremely rapidly changing and challenging environment This requires the quick introduction of new methods coming from different areas of applied science Advanced concepts in the book are illustrated in simple form with the help of tables and figures Most of the papers are self contained and thus ideally suitable for self study Solutions to sophisticated problems located at the intersection of various theoretical and applied areas of the natural sciences are presented in these proceedings

Handbook of Fish Biology and Fisheries Paul J. B. Hart,John D. Reynolds,2008-04-15 Recent decades have witnessed strong declines in fish stocks aroundthe globe amid growing concerns about the impact of fisheries onmarine and freshwater biodiversity Fisheries biologists andmanagers are therefore increasingly asking about aspects ofecology behaviour evolution and biodiversity that weretraditionally studied by people working in very separate fields This has highlighted the need to

work more closely together in order to help ensure future success both in management and conservation. The Handbook of Fish Biology and Fisheries has been written by an international team of scientists and practitioners to provide an overview of the biology of freshwater and marine fish species together with the science that supports fisheries management and conservation. This volume subtitled Fish Biology reviews a broad variety of topics from evolutionary relationships and global biogeography to physiology, recruitment, life histories, genetics, foraging behaviour, reproductive behaviour and community ecology. The second volume subtitled Fisheries uses much of this information in a wide ranging review of fisheries biology including methods of capture, marketing, economics, stock assessment, forecasting, ecosystem impacts and conservation. Together these books present the state of the art in our understanding of fish biology and fisheries and will serve as valuable references for undergraduates and graduates looking for a comprehensive source on a wide variety of topics in fisheries science. They will also be useful to researchers who need up to date reviews of topics that impinge on their fields and decision makers who need to appreciate the scientific background for management and conservation of aquatic ecosystems. To order volume I go to the box in the top right hand corner. Alternatively to order volume II go to <http://www.blackwellpublishing.com/book.asp?ref=063206482X> or to order the 2 volume set go to <http://www.blackwellpublishing.com/book.asp?ref=0632064838>. Provides a unique overview of the study of fish biology and ecology and the assessment and management of fish populations and ecosystems. The first volume concentrates on aspects of fish biology and ecology both at the individual and population levels whilst the second volume addresses the assessment and management of fish populations and ecosystems. Written by an international team of expert scientists and practitioners. An invaluable reference tool for both students, researchers and practitioners working in the fields of fish biology and fisheries.

Mathematical Modelling of Population Dynamics Ryszard Rudnicki, 2004
The American Naturalist, 2007
Lecture Notes in Pure and Applied Mathematics, 1991
Regulation and Stabilization Paradigms in Population Ecology P.J. Boer, J. Reddingius, 1996-09-30

The book is a reflection on patterns of thought, theoretical positions and research methods in population ecology. It advocates an approach which refrains from attempts at general mechanistic theory building but which instead tries to explain population phenomena by life history characteristics, physiological and behavioural processes of organisms and to combine these facts in explanatory models. As far as possible the difference between individuals in morphology, physiology and behaviour should be taken into account so that the connection of population ecology with the science of Neo-Darwinian evolution can be redressed again.

Evolution, Ecology and Environmental Stress Peter Calow, R. J. Berry, 1989. Papers from a symposium. The aim was to clarify the concept of stress and to consider its use as a probe of ecological systems and evolutionary processes. There was also an effort to consider the impact of stress at various levels of biological organization and to investigate the extent to which impacts at one level might be related to changes at others.

Metapopulation Dynamics Linnean Society of London, 1991. *Metapopulation Dynamics: Empirical and Theoretical Investigations* covers the 1989 proceedings of a

metapopulation dynamics workshop held at Lammi Biological Station Helsinki Finland It is divided into 18 chapters that cover various approaches to spatially structured population and community dynamics After briefly discussing the history of metapopulation ideas and the major conceptual links the book covers types of studies that have been conducted on single species and multispecies metapopulations Then it examines the relationships between metapopulation dynamics the equilibrium theory

Discrete and Continuous Dynamical Systems, 2008

Modeling in Natural Resource Management Tanya M. Shenk, Alan B. Franklin, 2001 Offering a much needed overview of the basic principles for understanding and evaluating models this volume brings together the best and most current information about natural resource modeling and its on the ground application providing a valuable reference for both scientists involved with issues of natural resource management and for managers who apply the science to real world problems Tables figures index

Herbivores British Ecological Society. Symposium, 1999 Herbivores play a central role in almost every ecosystem as consumers of primary production and as food for predators This volume provides an overview of knowledge on all aspects of herbivores in terrestrial ecosystems

Differential and Integral Equations, 2007 *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

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