

Population Dynamics Exam 2

Lecture 8-12, Study Guide

Interspecific Interactions

Lotka-Volterra Predator-Prey Model

= predator and prey limit each other's growth potential

Model for prey

$$N_{t+1}^{prey} = N_t^{prey} + N_t^{prey}(r^{prey} - k^{pred} N_t^{pred})$$

Model for predator

$$N_{t+1}^{pred} = N_t^{pred} + N_t^{pred}(b^{pred} N_t^{prey} - d^{pred})$$

→ the model is based on geometric growth!!!

- r^{prey} = growth rate of prey (in the absence of predators)
- k^{pred} = kill rate
- b^{pred} = effect of prey on predator birth rate
- d^{pred} = predator mortality rate

Equilibrium

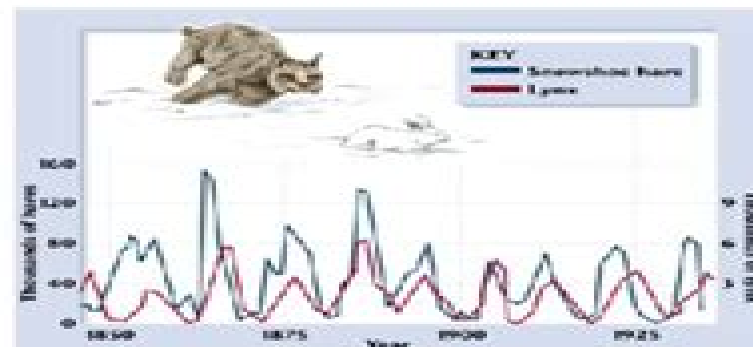
Equilibrium for prey occurs when:

$$N^{pred} = \frac{r^{prey}}{k^{pred}}$$

Equilibrium for predators occurs when:

$$N^{prey} = \frac{d^{pred}}{b^{pred}}$$

*** It is rare the both equilibrium conditions will be met at the same time
— populations will cycle!!!



Section 1 Study Guide Population Dynamics

Alain Pavé



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Analytical Population Dynamics T. Royama, 2012-12-06 A knowledge of animal population dynamics is essential for the proper management of natural resources and the environment This book now available in paperback develops basic concepts and a rigorous methodology for the analysis of animal population dynamics to identify the underlying mechanisms

Applied Mathematical Modelling of Engineering Problems Natali Hritonenko, Yuri Yatsenko, 2003-06-30 The subject of the book is the know how of applied mathematical modelling how to construct specific models and adjust them to a new engineering environment or more precise realistic assumptions how to analyze models for the purpose of investigating real life phenomena and how the models can extend our knowledge about a specific engineering process Two major sources of the book are the stock of classic models and the authors wide experience in the field The book provides a theoretical background to guide the development of practical models and their investigation It considers general modelling techniques explains basic underlying physical laws and shows how to transform them into a set of mathematical equations The emphasis is placed on common features of the modelling process in various applications as well as on complications and generalizations of models The book covers a variety of applications mechanical acoustical physical and electrical water transportation and contamination processes bioengineering and population control production systems and technical equipment renovation Mathematical tools include partial and ordinary differential equations difference and integral equations the calculus of variations optimal control bifurcation methods and related subjects

Advanced Engineering Mathematics Erwin Kreyszig, 2020-07-21 A mathematics resource for engineering physics math and computer science students The enhanced e text Advanced Engineering Mathematics 10th Edition is a comprehensive book organized into six parts with exercises It opens with ordinary differential equations and ends with the topic of mathematical statistics The analysis chapters address Fourier analysis and partial differential equations complex analysis and numeric analysis The book is written by a pioneer in the field of applied mathematics

Population Dynamics and the Tribolium Model: Genetics and Demography Robert F. Costantino, Robert A. Desharnais, 2012-12-06 The study of populations is becoming increasingly focused on dynamics We believe there are two reasons for this trend The first is the impact of nonlinear dynamics with its exciting ideas and colorful language bifurcations domains of attraction chaos fractals strange attractors Complexity which is so very much a part of biology now seems to be also a part of mathematics A second trend is the accessibility of the new concepts The barriers to communication between theorist and experimentalist seemless impenetrable The active participation of the experimentalist means that the theory will obtain substance Our role is the application of the theory of dynamics to the analysis of biological populations We began our work early in 1979 by writing an ordinary differential equation for the rate of change in adult numbers which was based on an equilibrium model proposed a decade earlier During the next few months we filled our notebook with straightforward deductions from the model and its associated biological implications Slowly some

of the biological observations were explained and papers followed on a variety of topics genetic and demographic stability stationary probability distributions for population size population growth as birth death process natural selection and density dependent population growth genetic disequilibrium and the stationary stochastic dynamics of adult numbers **Advanced Engineering Mathematics, International Adaptation** Erwin Kreyszig, 2025-05-12 Advanced Engineering Mathematics 11th Edition is known for its comprehensive coverage careful and correct mathematics outstanding exercises and self contained subject matter parts for maximum flexibility It opens with ordinary differential equations and ends with the topic of mathematical statistics The analysis chapters address Fourier analysis and partial differential equations complex analysis and numeric analysis The book is written by a pioneer in the field of applied mathematics This comprehensive volume is designed to equip students and professionals with the mathematical tools necessary to tackle complex engineering challenges and drive innovation This edition of the text maintains those aspects of the previous editions that have led to the book being so successful In addition to introducing a new appendix on emerging topics in applied mathematics each chapter now features a dedicated section on how mathematical modeling and engineering can address environmental and societal challenges promoting sustainability and ethical practices This edition includes a revision of the problem sets making them even more effective useful and up to date by adding the problems on open source mathematical software [A Primer of Population Dynamics](#) Krishnan Namboodiri, 2013-06-29 A Primer of Population Dynamics introduces to the basics of population studies Author Krishnan Namboodiri utilizes a question and answer format that explores topics such as population theories and conceptual schemes demographic data mortality fertility migration family and household food production and the environment and much more Questions are accompanied by detailed explanations as well as references for additional information An extensive index and glossary allow for easy retrieval of information This introductory textbook is written for students studying demography population sociology and public health [Marine Fisheries Review](#) ,1986 [Resources in Education](#) ,1998 **Dynamical Systems - Proceedings Of The Special Program At Nankai Institute Of Mathematics** Shan-tao Liao, Tong-ren Ding, Yan-qian Ye, 1993-03-01 **Modeling of Living Systems** Alain Pavé, 2012-12-27 Modeling is now one of the most efficient methodologies in life sciences From practice to theory this book develops this approach illustrated by many examples general concepts and the current state of the art are also presented and discussed An historical and general introduction informs the reader how mathematics and formal tools are used to solve biological problems at all levels of the organization of life The core of this book explains how this is done based on practical examples coming for the most part from the author's personal experience In most cases data are included so that the reader can follow the reasoning process and even reproduce calculus The final chapter is devoted to essential concepts and current developments The main mathematical tools are presented in an appendix to the book and are written in an adapted language readable by scientists professionals or students with a basic knowledge of mathematics **Mutualism** Judith L. Bronstein, 2015 The first synthetic

conceptual overview of mutualism in more than 25 years edited by the leading figure in the field identifying the ecological and evolutionary features that unite and divide mutualisms and placing them in clear relation to other pairwise interspecific interactions **Federal Register** ,2012-06 *Tutorials in Mathematical Biosciences IV* Avner Friedman,2008-04-26 This book offers an introduction to fast growing research areas in evolution of species population genetics ecological models and population dynamics It reviews the concept and methodologies of phylogenetic trees introduces ecological models examines a broad range of ongoing research in population dynamics and deals with gene frequencies under the action of migration and selection The book features computational schemes illustrations and mathematical theorems **Mountain Goats** Marco Festa-Bianchet,Steeve D. Côté,2012-09-26 Mountain goats have been among the least studied of North American ungulates leaving wildlife managers with little information on which to base harvest strategies or conservation plans This book offers the first comprehensive assessment of the ecology and behavior of mountain goats setting forth the results of a remarkable 16 year longitudinal study of more than 300 marked individuals in a population in Alberta Canada The authors thorough long term study allowed them to draw important conclusions about mountain goat ecology including individual reproductive strategies population dynamics and sensitivity to human disturbance and to use those conclusions in offering guidance for developing effective conservation strategies Chapters examine habitat use vegetation quality and seasonal movements sexual segregation and social organization individual variability in yearly and lifetime reproductive success of females age and sex specific survival and dispersal reproductive strategies and population dynamics management and conservation of mountain goats The book also draws on the rich literature on long term monitoring of marked ungulates to explore similarities and differences between mountain goats and other species particularly bighorn sheep and ibex By monitoring a marked population over a long period of time researchers were able to document changes in sex age structure and identify factors driving population dynamics Because it explores the links between individual life history strategy and population dynamics in a natural setting Mountain Goats will be an invaluable resource for wildlife managers researchers in ecology and animal behavior conservationists population biologists and anyone concerned with the ecology and management of natural populations especially in alpine environments Monthly Catalog of United States Government Publications United States. Superintendent of Documents,1962-07 *Evolution, Development and Ecology of Anemonefishes* Vincent Laudet,Timothy Ravasi,2022-11-07 Anemonefishes one of the most popular and recognizable of fishes in the world are much more than film characters they are also emerging model organisms for studying the biology ecology and evolution of coral reef fishes They are a group of 28 species often employed to study patterns and processes of social organization intra and inter specific competition sex change mutualism dispersal and connectivity of fish populations habitat selection pigment pattern formation lifespan and predator prey interactions This multi authored book covers all these areas and provides an update on the research done with this model and the perspective it opens for the future Key Features Contains basic and up to date

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Stochastic Processes and Calculus Explained Vikas Rathi, 2025-02-20 Stochastic Processes and Calculus Explained is an essential textbook designed to help readers understand and apply stochastic processes across various fields Written in clear accessible language this book provides a solid foundation in probability theory and calculus while diving into stochastic processes including random variables probability distributions Brownian motion stochastic integration and stochastic differential equations We emphasize the practical relevance of these concepts in finance physics engineering and biology Our guide illustrates how stochastic processes model uncertainty and randomness aiding in informed decision making outcome prediction and complex system analysis With real world examples and exercises we ensure readers can grasp and apply these concepts effectively The book offers a strong mathematical foundation covering key tools and techniques such as probability theory calculus and linear algebra essential for understanding stochastic processes Catering to readers of all backgrounds and expertise levels Stochastic Processes and Calculus Explained is ideal for beginners and experienced practitioners alike Its clear explanations intuitive coverage and comprehensive approach make it an invaluable resource for students researchers and professionals worldwide **Behavioral Ecology of Insect Parasitoids** Eric Wajnberg, Carlos

Bernstein, Jacques van Alphen, 2008-04-30 Written by a team of leading international specialists Behavioral Ecology of Insect Parasitoids examines the optimal behaviors that parasitoids exhibit in order to maximize long term offspring production It is an essential reference for research scientists and students studying these fascinating insects or for anyone involved in using parasitoids in biological control programs Reviews topical issues including cutting edge research on parasitoid decision making and the implications for biological control Explores applications in other fields provides information on the latest research methods and includes helpful case studies and statistical tools Creates a deeper understanding of the link between behavioural strategies and host mortality resulting in more efficient selective pest management programs Overall this is a fascinating volume that provides a significant contribution to the literature on parasitoid insects It goes a long way toward providing insights into numerous aspects of parasitoid behavior and will stimulate a diversity of future projects something that should be the goal of any such text I highly recommend Wajnberg et al for all of those working on the biology or evolution of parasitoids Palaios 2009 [Ecology of Urban Environments](#) Kirsten M. Parris, 2016-05-02 Provides an

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general case the stress on a fluid element or at a point is a tensor for a static fluid

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