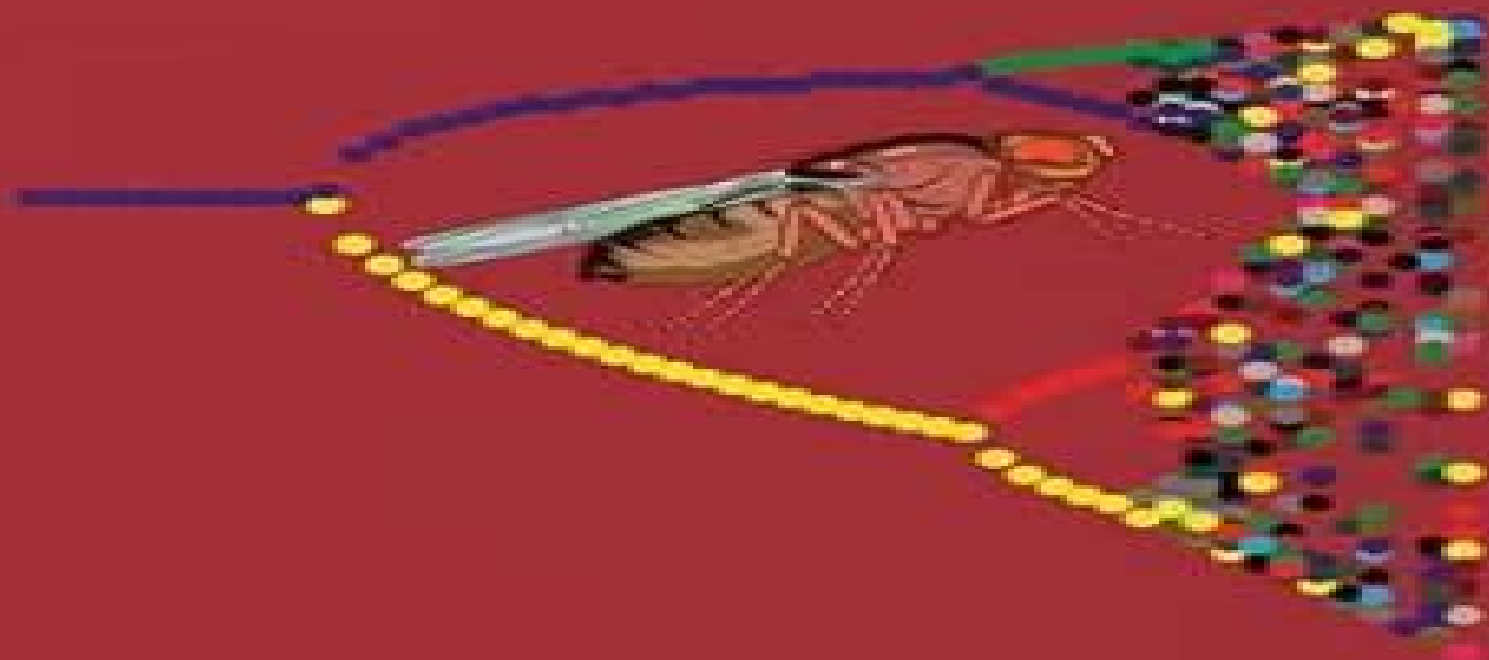


Stability in Model Populations

LAURENCE D. MUELLER
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Stability In Model Populations

Peter Turchin



Stability In Model Populations:

Stability in Model Populations Laurence D. Mueller, Amitabh Joshi, 2000-11-12 Reviewing the general theory of population stability this text critically analyzes techniques for inferring whether a given population is in balance or not It goes on to show how rigorous empirical research can reveal both the proximal causes of stability and its most evolutionary cases

Population Dynamics and Laboratory Ecology Robert Desharnais, 2005-08-04 Population Dynamics and Laboratory Ecology highlights the contributions laboratory studies are making to our understanding of the dynamics of ecological and evolutionary systems Chapters address the scientific rationale for laboratory ecology its historical role within the broader discipline and recent advances in research The book presents results from a wide range of laboratory systems including insects mites plankton protists and microbes A common theme throughout the book is the value of microcosm studies in advancing our knowledge of ecological and evolutionary principles Each chapter is authored by scientists who are leading experts in their fields The book addresses fundamental questions that are of interest to biologists whether they work in the laboratory or field or whether they are primarily empiricists or theorists Details a scientific rationale for laboratory systems in ecological and evolutionary studies Offers a view on historical role of laboratory studies Includes examples of recent research advances in ecology and evolution using laboratory systems ranging from insects to microbes Integrates mathematics statistics and experimental studies

Forest Insect Population Dynamics, Outbreaks, And Global Warming Effects A. S. Isaev, Vladislav G. Soukhovolsky, O. V. Tarasova, E. N. Palnikova, A. V. Kovalev, 2017-03-21 This new approach to insect modeling discusses population dynamics regularities control theory theory of transitions and describes methods of population dynamics and outbreaks modeling for forest phyllophagous insects and their effects on global climate change Research in insect population dynamics is important for more reasons than just protecting forest communities Insect populations are among the main ecological units included in the analysis of stability of ecological systems Moreover it is convenient to test new methods of analyzing population and community stability on the insect related data as by now ecologists and entomologists have accumulated large amounts of such data In this book the authors analyze population dynamics of quite a narrow group of insects forest defoliators It is hoped that the methods proposed herein for the analysis of population dynamics of these species may be useful and effective for analyzing population dynamics of other animal species and their effects and role in global warming What can insects tell us about our environment and our ever changing climate It is through studies like this one that these important answers can be obtained along with data on the insects and their behaviors themselves The authors present new theories on modeling and data accumulation using cutting edge processes never before published for such a wide audience This volume presents the state of the art in the science and it is an essential piece of any entomologist s and forest engineer s library

Integrated Population Biology and Modeling, Part A, 2018-09-26 Integrated Population Biology and Modeling Part A offers very complex and precise realities of quantifying

modern and traditional methods of understanding populations and population dynamics Chapters cover emerging topics of note including Longevity dynamics Modeling human environment interactions Survival Probabilities from 5 Year Cumulative Life Table Survival Ratios Tx 5 Tx Some Innovative Methodological Investigations Cell migration Models Evolutionary Dynamics of Cancer Cells an Integrated approach for modeling of coastal lagoons A case for Chilka Lake India Population and metapopulation dynamics Mortality analysis measures and models Stationary Population Models Are there biological and social limits to human longevity Probability models in biology Stochastic Models in Population Biology and more Covers emerging topics of note in the subject matter Presents chapters on Longevity dynamics Modeling human environment interactions Survival Probabilities from 5 Year Cumulative Life Table Survival Ratios Tx 5 Tx and more Analysis and Management of Animal Populations Byron K. Williams,James D. Nichols,Michael James Conroy,Michael J. Conroy,2002-04-17 Analysis and Management of Animal Populations deals with the processes involved in making informed decisions about the management of animal populations It covers the modeling of population responses to management actions the estimation of quantities needed in the modeling effort and the application of these estimates and models to the development of sound management decisions The book synthesizes and integrates in a single volume the methods associated with these themes as they apply to ecological assessment and conservation of animal populations Integrates population modeling parameter estimation and decision theoretic approaches to management in a single cohesive framework Provides authoritative state of the art descriptions of quantitative approaches to modeling estimation and decision making Emphasizes the role of mathematical modeling in the conduct of science and management Utilizes a unifying biological context consistent mathematical notation and numerous biological examples The Dynamics of Physiologically Structured Populations Johan A. Metz,Odo Diekmann,2014-03-11 **Management and Analysis of Biological Populations** B.-S. Goh,2012-12-02 Management and Analysis of Biological Populations demonstrates the usefulness of optimal control theory in the management of biological populations and the Liapunov function in simulating an ecosystem model under large perturbations of its initial state and continual disturbances on its dynamics The first chapter of the book introduces the topic by presenting the different models in ecology and discussing the stability concepts the ecological engineering and various relevant functions in ecosystem modeling The next chapter contains a brief survey of static optimization techniques and optimal control theory for systems which are modeled by differential and difference equations Another chapter covers methods that use Liapunov and Liapunov like functions to establish that a given population model is stable relative to finite perturbations of its initial state and that it is non vulnerable relative to large continual disturbances The book also covers fisheries and logistic modeling including a discussion of a few management problems Moreover this reference considers stability in an ecosystem model with complexities due to species richness nonlinearities time delays and spatial heterogeneity Finally it explains how to manage pests and greenhouse crops The book is an excellent reference source for students and professionals

in ecology and environmental engineering Research professionals and extended workers in agriculture and agronomy will also find this book invaluable

On the Stability of a Population Growth Model with Sexual Reproduction on the Two Dimensional Integer Lattice Hwa-Nien Chen,1990 [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

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 the 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 notebooks 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 a birth-death process natural selection and density dependent population growth genetic disequilibrium and the stationary stochastic dynamics of adult numbers

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

Ecology Michael Begon, Colin R. Townsend, 2020-11-11 A definitive guide to the depth and breadth of the ecological sciences revised and updated The revised and updated fifth edition of Ecology From Individuals to Ecosystems now in full colour offers students and practitioners a review of the ecological sciences The previous editions of this book earned the authors the prestigious Exceptional Life time Achievement Award of the British Ecological Society the aim for the fifth edition is not only to maintain standards but indeed to enhance its coverage of Ecology In the first edition 34 years ago it seemed acceptable for ecologists to hold a comfortable objective not to say aloof position from which the ecological communities around us were simply material for which we sought a scientific understanding Now we must accept the immediacy of the many environmental problems that threaten us and the responsibility of ecologists to play their full part in addressing these problems This fifth edition addresses this challenge with several chapters devoted entirely to applied topics and examples of how ecological principles have been applied to problems facing us highlighted throughout the remaining nineteen chapters Nonetheless the authors remain wedded to the belief that environmental action can only ever be as sound as the ecological principles on which it is based Hence while trying harder than ever to help improve preparedness for addressing the environmental problems of the years ahead the book remains in its essence an exposition of the science of ecology This new edition incorporates the results from more than a thousand recent studies into a fully up to date text Written for students of ecology researchers and practitioners the fifth edition of Ecology From Individuals to Ecosystems is an essential reference to all aspects of ecology and addresses environmental problems of the future

Analysis of Ecological Systems: State-of-the-Art in Ecological Modelling W.K. Lauenroth, G.V. Skogerboe, M. Flug, 2013-10-22 The International Society for Ecological Modelling ISEM sponsors conferences workshops and training courses with the aim of advancing the development of ecological and environmental modelling The 3rd International Conference on the state of the art in ecological modelling was sponsored by the ISEM in cooperation with the National Park Service Water Resources Laboratory and hosted by the Natural Resource Ecology Laboratory at Colorado State University Its theme was the application of ecological modelling to environmental management and this book contains the full texts of the three invited papers presented in the five general sessions plus the final summaries and syntheses of the topics covered during those sessions

BIOMAT 2009 Rubem P. Mondaini, Rubem Mondaini, 2010 Macrophages and tumours friends or foe H M Byrne M R Owen Tumour cells proliferation and migration under the influence of their microenvironment A Friedman Yangjin Kim Phenomenological study of the growth rate of transformed vero cells changes in the growth mode and fractal behaviour of colony contours M A C Huergo und weitere Evidence of deterministic evolution in the immunological memory process A de Castro und weitere Mathematical and computer modelling of control mechanisms of hierarchical molecular genetic systems H B Nabievich und weitere Monte Carlo simulation of protein models at the interface between statistical physics and biology T W st D P Landau Stochastic

matrices as a tool for biological evolution models R Kerner R Aldrovandi Fractal and nonlinear analysis of biochemical time series H Puebla E Hernandez Martinez J Alvarez Ramirez Control and synchronization of Hodgkin Huxley neurons H Puebla E Hernandez Martinez J Alvarez Ramirez A correlation between Steiner atom sites and amide planes in protein structures R P Mondaini Mathematical modelling of sustainable development an application to the case of the rain forest of Madagascar C Bernard Population dynamics on complex food webs L Berec New Zealand paleodemography pitfalls and possibilities C E M Pearce S N Cohen J Tuke Regulation by optimal taxation of an open access single species fishery considering Allee effect on renewable resource A Rojas Palma E Gonz lez Olivares Effect of mass media on the cultural diversity of axelrod model of social influence J F Fontanari Leslie matrices and survival curves contain thermodynamical information F R Momo S Doyle J E Ure Graph partitioning approaches for analyzing biological networks Neng Fan P M Pardalos A Chinchuluun Protein protein interactions prediction using 1 nearest neighbors classification algorithm and feature selection M R Guarracino und weitere Clustering data in chemosystematics using a graph theoretic approach an application of minimum spanning tree with penalty concept L S Oliveira und weitere Natural clustering using python D E Razera und weitere On the dynamics of reinfection the case of tuberculosis Xiaohong Wang und weitere The spread of HIV infection on immune system implications on cell populations and Ro epidemic estimate M Rossi L F Lopez Real time forecasting for an influenza pandemic in the UK from prior information and multiple surveillance datasets G Ketsetzis und weitere A probabilistic cellular automata for studying the spreading of pneumonia in a population Y Saito M A A Silva D Alves Contribution of waterborne transport in the spread of infection with Toxoplasma gondii D Y A Trejos I G Duarte SIS epidemic model with pulse vaccination strategy at variable times F Cordova Lepe R Del Valle G Robledo

Proceedings of the 1992 Academy of Marketing Science (AMS) Annual Conference Victoria L. Crittenden, 2015-03-13 This volume includes the full proceedings from the 1992 Academy of Marketing Science AMS Annual Conference held in San Diego California The research and presentations offered in this volume cover many aspects of marketing science including marketing strategy consumer behavior international marketing retailing marketing education among others Founded in 1971 the Academy of Marketing Science is an international organization dedicated to promoting timely explorations of phenomena related to the science of marketing in theory research and practice Among its services to members and the community at large the Academy offers conferences congresses and symposia that attract delegates from around the world Presentations from these events are published in this Proceedings series which offers a comprehensive archive of volumes reflecting the evolution of the field Volumes deliver cutting edge research and insights complimenting the Academy s flagship journals the Journal of the Academy of Marketing Science JAMS and AMS Review Volumes are edited by leading scholars and practitioners across a wide range of subject areas in marketing science

Spatial Dynamics and Pattern Formation in Biological Populations Ranjit Kumar Upadhyay, Satteluri R. K. Iyengar, 2021-02-24 The book provides an introduction to deterministic and some stochastic

modeling of spatiotemporal phenomena in ecology epidemiology and neural systems A survey of the classical models in the fields with up to date applications is given The book begins with detailed description of how spatial dynamics diffusive processes influence the dynamics of biological populations These processes play a key role in understanding the outbreak and spread of pandemics which help us in designing the control strategies from the public health perspective A brief discussion on the functional mechanism of the brain single neuron models and network level with classical models of neuronal dynamics in space and time is given Relevant phenomena and existing modeling approaches in ecology epidemiology and neuroscience are introduced which provide examples of pattern formation in these models The analysis of patterns enables us to study the dynamics of macroscopic and microscopic behaviour of underlying systems and travelling wave type patterns observed in dispersive systems Moving on to virus dynamics authors present a detailed analysis of different types models of infectious diseases including two models for influenza five models for Ebola virus and seven models for Zika virus with diffusion and time delay A Chapter is devoted for the study of Brain Dynamics Neural systems in space and time Significant advances made in modeling the reaction diffusion systems are presented and spatiotemporal patterning in the systems is reviewed Development of appropriate mathematical models and detailed analysis such as linear stability weakly nonlinear analysis bifurcation analysis control theory numerical simulation are presented Key Features Covers the fundamental concepts and mathematical skills required to analyse reaction diffusion models for biological populations Concepts are introduced in such a way that readers with a basic knowledge of differential equations and numerical methods can understand the analysis The results are also illustrated with figures Focuses on mathematical modeling and numerical simulations using basic conceptual and classic models of population dynamics Virus and Brain dynamics Covers wide range of models using spatial and non spatial approaches Covers single two and multispecies reaction diffusion models from ecology and models from bio chemistry Models are analysed for stability of equilibrium points Turing instability Hopf bifurcation and pattern formations Uses Mathematica for problem solving and MATLAB for pattern formations Contains solved Examples and Problems in Exercises The Book is suitable for advanced undergraduate graduate and research students For those who are working in the above areas it provides information from most of the recent works The text presents all the fundamental concepts and mathematical skills needed to build models and perform analyses

Theoretical Approaches to Community Ecology Luís Borda-de-Água, Paulo A. V. Borges, John Maxwell Halley, 2022-02-18

Complex Population Dynamics Peter Turchin, 2013-02-15 Why do organisms become extremely abundant one year and then seem to disappear a few years later Why do population outbreaks in particular species happen more or less regularly in certain locations but only irregularly or never at all in other locations Complex population dynamics have fascinated biologists for decades By bringing together mathematical models statistical analyses and field experiments this book offers a comprehensive new synthesis of the theory of population oscillations Peter Turchin first reviews the conceptual tools that ecologists use to investigate

population oscillations introducing population modeling and the statistical analysis of time series data He then provides an in depth discussion of several case studies including the larch budmoth southern pine beetle red grouse voles and lemmings snowshoe hare and ungulates to develop a new analysis of the mechanisms that drive population oscillations in nature Through such work the author argues ecologists can develop general laws of population dynamics that will help turn ecology into a truly quantitative and predictive science Complex Population Dynamics integrates theoretical and empirical studies into a major new synthesis of current knowledge about population dynamics It is also a pioneering work that sets the course for ecology s future as a predictive science Machine Learning Using R Karthik Ramasubramanian,Abhishek

Singh,2016-12-22 Examine the latest technological advancements in building a scalable machine learning model with Big Data using R This book shows you how to work with a machine learning algorithm and use it to build a ML model from raw data All practical demonstrations will be explored in R a powerful programming language and software environment for statistical computing and graphics The various packages and methods available in R will be used to explain the topics For every machine learning algorithm covered in this book a 3 D approach of theory case study and practice will be given And where appropriate the mathematics will be explained through visualization in R All the images are available in color and hi res as part of the code download This new paradigm of teaching machine learning will bring about a radical change in perception for many of those who think this subject is difficult to learn Though theory sometimes looks difficult especially when there is heavy mathematics involved the seamless flow from the theoretical aspects to example driven learning provided in this book makes it easy for someone to connect the dots What You ll Learn Use the model building process flow Apply theoretical aspects of machine learning Review industry based case studies Understand ML algorithms using R Build machine learning models using Apache Hadoop and Spark Who This Book is For Data scientists data science professionals and researchers in academia who want to understand the nuances of machine learning approaches algorithms along with ways to see them in practice using R The book will also benefit the readers who want to understand the technology behind implementing a scalable machine learning model using Apache Hadoop Hive Pig and Spark An Analysis of the Population Dynamics of Selected Avian Species Charles J. Henny,Douglas H. Johnson,Michael A. Bogan,Sandra L Husar,Alan B. Sargeant,1972

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