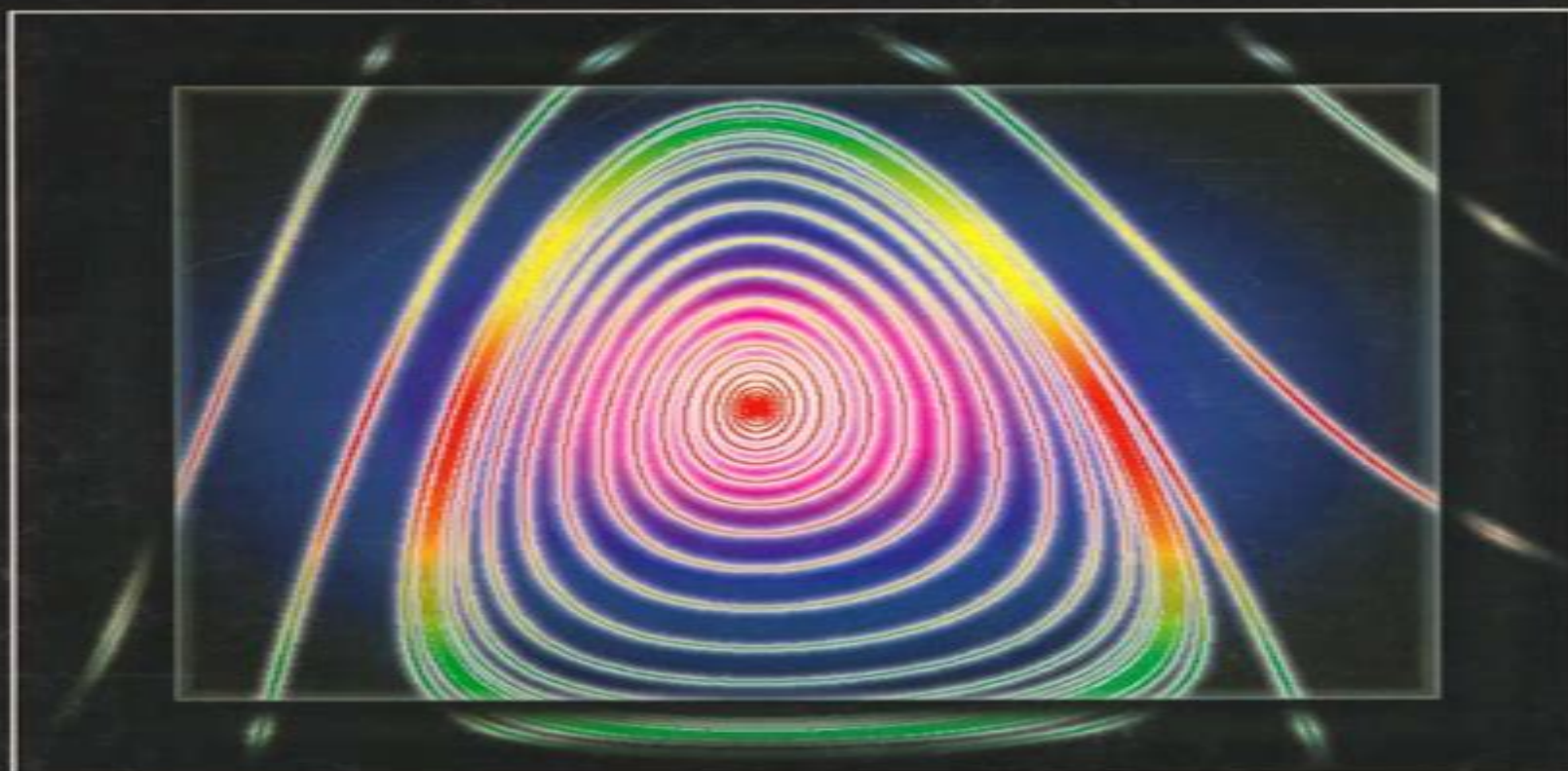


NONLINEAR DYNAMICS OF INTERACTING POPULATIONS

Alexander D. Bazykin



World Scientific

Nonlinear Dynamics Of Interacting Populations

**Fatih Yilmaz, Araceli Queiruga-
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Nonlinear Dynamics Of Interacting Populations:

Nonlinear Dynamics of Interacting Populations A. D. Bazykin, Aleksandr Iosifovich Khibnik, Bernd Krauskopf, 1998
This book contains a systematic study of ecological communities of two or three interacting populations Starting from the Lotka Volterra system various regulating factors are considered such as rates of birth and death predation and competition The different factors can have a stabilizing or a destabilizing effect on the community and their interplay leads to increasingly complicated behavior Studying and understanding this path to greater dynamical complexity of ecological systems constitutes the backbone of this book On the mathematical side the tool of choice is the qualitative theory of dynamical systems most importantly bifurcation theory which describes the dependence of a system on the parameters This approach allows one to find general patterns of behavior that are expected to be observed in ecological models Of special interest is the reaction of a given model to disturbances of its present state as well as to changes in the external conditions This leads to the general idea of dangerous boundaries in the state and parameter space of an ecological system The study of these boundaries allows one to analyze and predict qualitative and often sudden changes of the dynamics a much needed tool given the increasing antropogenic load on the biosphere As a spin off from this approach the book can be used as a guided tour of bifurcation theory from the viewpoint of application The interested reader will find a wealth of intriguing examples of how known bifurcations occur in applications The book can in fact be seen as bridging the gap between mathematical biology and bifurcation theory

Advances in Mathematical and Computational Sciences Manoj Kumar Patel, Triloki Nath, Ram Kishor Pandey, Diwakar Shukla, 2024-11-04 This volume documents the contributions presented at The ICRTMPCS II International Conference on Advances in Mathematical and Computational Sciences Entries focus on modern trends and techniques in branches of pure and applied mathematics statistics and computer science Highlighting applications in coding theory cryptography graph theory fuzzy theory variance analysis data analysis and sampling theory

Urban Dynamics and Spatial Choice Behaviour J. Hauer, Harry J.P. Timmermans, N. Wrigley, 2012-12-06 This book arises from The Fourth European Colloquium on Theoretical and Quantitative Geography which was held in Delft, The Netherlands in September 1985 It contains a series of papers on spatial choice dynamics and dynamical spatial systems which were presented at the colloquium together with a few other solicited ones The book is intended primarily as a state of the art review of mainly European research on these two fastly growing problem areas As a consequence of this decision the book contains a selection of papers that differs in terms of focus level of sophistication and conceptual background Evidently the dissemination of ideas and computer software is a time related phenomenon which in the European context is amplified by differences in language the profile of geography and the formal training of geographers The book reflects such differences It would have been impossible to produce this book without the support of the various European study groups on theoretical and quantitative geography Without their help the meetings from which this volume originates would not have been held in

the first place We are also indebted to the Royal Dutch Academy of Science for partly funding the colloquium and to SISWO and TNOjPSC for providing general support in the organisation of the conference

New Trends in the Applications of Differential Equations in Sciences Angela Slavova,2023-03-17 This book convenes peer reviewed selected papers presented at the Ninth International Conference New Trends in the Applications of Differential Equations in Sciences NTADES held in Sozopol Bulgaria June 17 20 2022 The works are devoted to many applications of differential equations in different fields of science A number of phenomena in nature physics chemistry biology and in society economics result in problems leading to the study of linear and nonlinear differential equations stochastic equations statistics analysis numerical analysis optimization and more The main topics are presented in the five parts of the book applications in mathematical physics mathematical biology financial mathematics neuroscience and fractional analysis In this volume the reader will find a wide range of problems concerning recent achievements in both theoretical and applied mathematics The main goal is to promote the exchange of new ideas and research between scientists who develop and study differential equations and researchers who apply them for solving real life problems The book promotes basic research in mathematics leading to new methods and techniques useful for applications of differential equations The NTADES 2022 conference was organized in cooperation with the Society of Industrial and Applied Mathematics SIAM the major international organization for Industrial and Applied Mathematics and for the promotion of interdisciplinary collaboration between applied mathematics and science engineering finance and neuroscience

Applied Mathematical Analysis: Theory, Methods, and Applications Hemen Dutta,James F. Peters,2019-02-21 This book addresses key aspects of recent developments in applied mathematical analysis and its use It also highlights a broad range of applications from science engineering technology and social perspectives Each chapter investigates selected research problems and presents a balanced mix of theory methods and applications for the chosen topics Special emphasis is placed on presenting basic developments in applied mathematical analysis and on highlighting the latest advances in this research area The book is presented in a self contained manner as far as possible and includes sufficient references to allow the interested reader to pursue further research in this still developing field The primary audience for this book includes graduate students researchers and educators however it will also be useful for general readers with an interest in recent developments in applied mathematical analysis and applications

Elements of Mathematical Ecology Mark Kot,2001-07-19 Elements of Mathematical Ecology provides an introduction to classical and modern mathematical models methods and issues in population ecology The first part of the book is devoted to simple unstructured population models that ignore much of the variability found in natural populations for the sake of tractability Topics covered include density dependence bifurcations demographic stochasticity time delays population interactions predation competition and mutualism and the application of optimal control theory to the management of renewable resources The second part of this book is devoted to structured population models covering spatially structured population

models with a focus on reaction diffusion models age structured models and two sex models Suitable for upper level students and beginning researchers in ecology mathematical biology and applied mathematics the volume includes numerous clear line diagrams that clarify the mathematics relevant problems throughout the text that aid understanding and supplementary mathematical and historical material that enrich the main text

Forest Insect Population Dynamics, Outbreaks, And Global Warming Effects A. S. Isaev, Vladislav G. Soukhovolsky, O. V. Tarasova, E. N. Palnikova, A. V. Kovalev, 2017-03-16 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

Advanced Computing in Industrial Mathematics Krassimir Georgiev, Michail Todorov, Ivan Georgiev, 2018-09-27 This book gathers the peer reviewed proceedings of the 12th Annual Meeting of the Bulgarian Section of the Society for Industrial and Applied Mathematics BGSIAM 17 held in Sofia Bulgaria in December 2017 The general theme of BGSIAM 17 was industrial and applied mathematics with a particular focus on high performance computing numerical methods and algorithms analysis of partial differential equations and their applications mathematical biology control and uncertain systems stochastic models molecular dynamics neural networks genetic algorithms metaheuristics for optimization problems generalized nets and Big Data

New perspectives and emerging directions in predator-prey functional response research: Hommage to C.S. Holling (1930- 2019) Thomas John Hossie, Dennis Murray, 2023-07-26

Mathematical Biophysics Andrew Rubin, Galina Riznichenko, 2013-11-26 This book presents concise descriptions and analysis of the classical and modern models used in mathematical biophysics The authors ask the question what new information can be provided by the models that cannot be obtained directly from experimental data Actively developing fields such as regulatory mechanisms in cells and subcellular systems and electron transport and energy transport in membranes are addressed together with more classical topics such

as metabolic processes nerve conduction and heart activity chemical kinetics population dynamics and photosynthesis The main approach is to describe biological processes using different mathematical approaches necessary to reveal characteristic features and properties of simulated systems With the emergence of powerful mathematics software packages such as MAPLE Mathematica Mathcad and MatLab these methodologies are now accessible to a wide audience Turbulence, Strange Attractors, and Chaos David Ruelle, 1995 The present collection of reprints covers the main contributions of David Ruelle and coauthors to the theory of chaos and its applications Several of the papers reproduced here are classics in the field Others that were published in less accessible places may still surprise the reader The collection contains mathematical articles relevant to chaos specific articles on the theory and articles on applications to hydrodynamical turbulence chemical oscillations etc A sound judgement of the value of techniques and applications is crucial in the interdisciplinary field of chaos For a critical assessment of what has been achieved in this area the present volume is an invaluable contribution

Mathematical Methods for Engineering Applications Fatih Yilmaz, Araceli Queiruga-Dios, Jesús Martín Vaquero, Ion Mierluș-Mazilu, Deolinda Rasteiro, Víctor Gayoso Martínez, 2023-03-08 This proceedings volume convenes selected peer reviewed papers presented at the 3rd International Conference on Mathematics and its Applications in Science and Engineering ICMASE 2022 which was held on July 4-7 2022 by the Technical University of Civil Engineering of Bucharest Romania Works in this volume cover new developments in applications of mathematics in science and engineering with emphasis on mathematical and computational modeling of real world problems Topics range from the use of differential equations to model mechanical structures to the employ of number theory in the development of information security and cryptography Educational issues specific to the acquisition of mathematical competencies by engineering and science students at all university levels are also touched on Researchers and university students are the natural audiences for this book which can be equally appealing to practitioners seeking up to date techniques in mathematical applications to different contexts and disciplines

Proceedings of the 2nd International Conference on Nonlinear Dynamics and Applications (ICNDA 2024), Volume 2 Asit Saha, Santo Banerjee, 2024-10-10 This book covers the latest advancements and applications of nonlinear dynamics in various fields of science and engineering presenting a curated selection of peer reviewed contributions at the 2nd International Conference on Nonlinear Dynamics and Applications ICNDA 2024 at Sikkim Manipal Institute of Technology SMIT Organized by the Department of Mathematics SMIT SMU this international conference provides a platform for scientists researchers and inventors to share their findings and exchange ideas in the ever evolving field of nonlinear dynamics This book comprises three volumes Volume 2 focuses on chaos complexity and fractals in dynamical systems It covers topics such as novel methods for solving population balance models analysis of fractal structures and nonlinear partial differential equations dynamics of disease therapy and cytokine interactions stability and behavior of predator prey and ecological systems fluid dynamics and heat transfer in nanofluids and numerical and analytical approaches

to material and structural optimization **Applied Analysis in Biological and Physical Sciences** Jim M. Cushing, M. Saleem, H. M. Srivastava, Mumtaz Ahmad Khan, M. Merajuddin, 2016-12-01 The book contains recent developments and contemporary research in mathematical analysis and in its application to problems arising from the biological and physical sciences The book is of interest to readers who wish to learn of new research in such topics as linear and nonlinear analysis mathematical biology and ecology dynamical systems graph theory variational analysis and inequalities functional analysis differential and difference equations partial differential equations approximation theory and chaos All papers were prepared by participants at the International Conference on Recent Advances in Mathematical Biology Analysis and Applications ICMBAA 2015 held during 4-6 June 2015 in Aligarh India A focal theme of the conference was the application of mathematics to the biological sciences and on current research in areas of theoretical mathematical analysis that can be used as sophisticated tools for the study of scientific problems The conference provided researchers academicians and engineers with a platform that encouraged them to exchange their innovative ideas in mathematical analysis and its applications as well as to form interdisciplinary collaborations The content of the book is divided into three parts Part I contains contributions from participants whose topics are related to nonlinear dynamics and its applications in biological sciences Part II has contributions which concern topics on nonlinear analysis and its applications to a variety of problems in science engineering and industry Part III consists of contributions dealing with some problems in applied analysis Issues in Calculus, Mathematical Analysis, and Nonlinear Research: 2013 Edition, 2013-05-01 Issues in Calculus Mathematical Analysis and Nonlinear Research 2013 Edition is a ScholarlyEditions book that delivers timely authoritative and comprehensive information about Mathematical Analysis The editors have built Issues in Calculus Mathematical Analysis and Nonlinear Research 2013 Edition on the vast information databases of ScholarlyNews You can expect the information about Mathematical Analysis in this book to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Issues in Calculus Mathematical Analysis and Nonlinear Research 2013 Edition has been produced by the world's leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com> *Dynamic Modeling, Empirical Macroeconomics, and Finance* Lucas Bernard, Unurjargal Nyambuu, 2016-10-03 This edited volume with contributions by area experts offers discussions on a range of evolving topics in economics and social development At center are important issues central to sustainable development economic growth technological change the economics of climate change commodity markets long wave theory non linear dynamic models and boom bust cycles This is an excellent reference for academic and professional economists interested in emerging areas of empirical macroeconomics and finance For policy makers and curious readers alike it is also

an outstanding introduction to the economic thinking of those who seek a holistic and all encompassing approach in economic theory and policy Looking into new data and methodology this book offers fresh approaches in a post crisis environment Set in a profound understanding of the diverse currents within the many traditions of economic thought this book pushes the established frontiers of economic thinking It is dedicated to a leading scholar in the areas covered in this book Willi Semmler

Principles of Complexity Economics Michael Roos,2024-08-05 This textbook serves as an introduction to the rising field of complexity economics In thirteen chapters it provides a comprehensive and systematic overview of the concepts and methods of complexity economics and their applications to economic issues The book explains that the complexity approach is not just another method but a worldview that is different from the one of academics with neoclassical training By contrasting complexity economics with neoclassical economics the readers are induced to reflect on their own unconscious beliefs about the economic world and develop their own approach to dealing with the pervasive complexities and uncertainties of reality The first five chapters serve as an introduction and overview Chapters 6-12 present the core concepts of the book Each of the seven chapters introduces a key concept of complexity and provides applications to economics topics The final chapter discusses the implications of complexity thinking for economic policy and for the future development of economics This textbook addresses advanced undergraduate students and graduate students of economics interested in a better understanding of the concepts and the way of thinking in complexity economics as well as in acquiring a sound technical foundation to understand most of the research literature

Dynamic Models of Infectious Diseases V. Sree Hari Rao,Ravi Durvasula,2013-11-30 Though great advances in public health are witnessed world over in recent years infectious diseases besides insect vector borne infectious diseases remain a leading cause of morbidity and mortality Control of the epidemics caused by the non vector borne diseases such as tuberculosis avian influenza H5N1 and cryptococcus gattii have left a very little hope in the past The advancement of research in science and technology has paved way for the development of new tools and methodologies to fight against these diseases In particular intelligent technology and machine learning based methodologies have rendered useful in developing more accurate predictive tools for the early diagnosis of these diseases In all these endeavors the main focus is the understanding that the process of transmission of an infectious disease is nonlinear not necessarily linear and dynamical in character This concept compels the appropriate quantification of the vital parameters that govern these dynamics This book is ideal for a general science and engineering audience requiring an in depth exposure to current issues ideas methods and models The topics discussed serve as a useful reference to clinical experts health scientists public health administrators medical practitioners and senior undergraduate and graduate students in applied mathematics biology bioinformatics and epidemiology medicine and health sciences

Stochastic Processes and Applications Sergei Silvestrov,Anatoliy Malyarenko,Milica Rančić,2018-12-05 This book highlights the latest advances in stochastic processes probability theory mathematical statistics engineering mathematics and algebraic structures focusing

on mathematical models structures concepts problems and computational methods and algorithms important in modern technology engineering and natural sciences applications It comprises selected high quality refereed contributions from various large research communities in modern stochastic processes algebraic structures and their interplay and applications The chapters cover both theory and applications illustrated by numerous figures schemes algorithms tables and research results to help readers understand the material and develop new mathematical methods concepts and computing applications in the future Presenting new methods and results reviews of cutting edge research and open problems and directions for future research the book serves as a source of inspiration for a broad spectrum of researchers and research students in probability theory and mathematical statistics applied algebraic structures applied mathematics and other areas of mathematics and applications of mathematics The book is based on selected contributions presented at the International Conference on Stochastic Processes and Algebraic Structures From Theory Towards Applications SPAS2017 to mark Professor Dmitrii Silvestrov's 70th birthday and his 50 years of fruitful service to mathematics education and international cooperation which was held at Mälardalen University in Västerås and Stockholm University Sweden in October 2017

Water in Biomechanical and Related Systems Adam Gadomski, 2021-04-21 The contributed volume puts emphasis on a superior role of water in bio systems exposed to a mechanical stimulus It is well known that water plays an extraordinary role in our life It feeds mammalian or other organism after distributing over its whole volume to support certain physiological and locomotive friction adhesion processes to mention but two of them both of extreme relevance Water content not only in the mammalian organism but also in other biosystems such as whether those of soil which is equipped with microbiome or the ones pertinent to plants having their own natural network of water vessels is always subjected to a force field The decisive force field applied to the biosystems makes them biomechanically agitated irrespective of whether they are subjected to external or internal force field conditions It ought to be noted that the decisive mechanical factor shows up in a close relation with the space and time scale in which it is causing certain specific phenomena to occur The scale problem emphasizing the range of action of gravitational force thus the millimeter or bigger force vs distance scale is supposed to enter the so called macroscale approach to water transportation through soil or plants roots system It is merely related to a percolation problem which assumes to properly inspect the random network architecture assigned to the biosystems invoked The capillarity conditions turn out to be of prior importance and the porous medium effect has to be treated and solved in a fairly approximate way The deeper the scale is penetrated by a force exerting and hydrated agent the more non gravitational force fields manifest This can be envisaged in terms of the corresponding thermodynamic non Newtonian forces and the phenomena of interest are mostly attributed to suitable changes of the osmotic pressure In low Reynolds number conditions thus in the sub micrometer distance scale zone they are related with the corresponding viscosity changes of the aqueous e g cytoplasmatic solutions of semi diluted and concentrated but also electrolytic characteristics For example they can be

observed in articulating systems of mammals in their skin and to some extent in other living beings such as lizards geckos or even insects Through their articulating devices an external mechanical stimulus is transmitted from macro to nanoscale wherein the corresponding osmotic pressure conditions apply The content of the proposed work can be distributed twofold First the biomechanical mammalian type or similar systems with extraordinary relevance of water for their functioning will be presented also including a presentation of water itself as a key physicochemical system medium Second the suitably chosen related systems mainly of soil and plant addressing provenience will be examined thoroughly As a common denominator of all of them it is proposed to look at their hydrophobic and or de hydration effects and how do they impact on their basic mechanical and related such as chemo mechanical or piezoelectric etc properties An additional tacit assumption employed throughout the monograph concerns statistical scalability of the presented biosystems which is equivalent to take for granted a certain similarity between local and global system s properties mostly those of mechanical nature The presented work s chapters also focus on biodiversity and ecological aspects in the world of animals and plants and the related systems The chapters contents underscore the bioinspiration as the key landmark of the proposed monograph

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