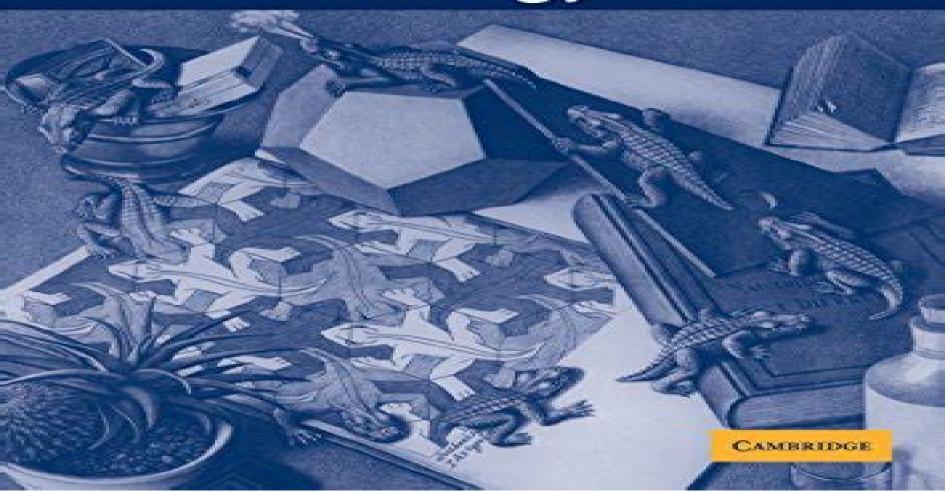
Mark Kot

Elements of Mathematical Ecology



Elements Of Mathematical Ecology

Fred Brauer, Pauline van den Driessche, J. Wu

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An Introduction to Undergraduate Research in

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mixed audience from mathematical sciences epidemiology and public health this volume offers a comprehensive introduction to basic ideas and techniques in modeling infectious diseases for the comparison of strategies to plan for an anticipated epidemic or pandemic and to deal with a disease outbreak in real time It covers detailed case studies for diseases including pandemic influenza West Nile virus and childhood diseases Models for other diseases including Severe Acute Respiratory Syndrome fox rabies and sexually transmitted infections are included as applications Its chapters are coherent and complementary independent units In order to accustom students to look at the current literature and to experience different perspectives no attempt has been made to achieve united writing style or unified notation Notes on some mathematical background calculus matrix algebra differential equations and probability have been prepared and may be downloaded at the web site of the Centre for Disease Modeling www cdm yorku ca Quantitative Elements of General Biology Ivan Maly,2021-08-28 This monograph sketches out a broad spectrum of problems from evolution and metabolism to morphogenesis and biogeographical dynamics whose solution has been impacted by mathematical models Each of the selected examples has led to the recognition and set direction to further study of certain fundamental but unintuitive properties of biological systems such as the making and breaking of specific symmetries that underlie morphogenesis Whether they are long established or only recently accepted these models are selected for being thought provoking and illuminating both the achievements and the gaps in our current understanding of the given area of biology The selection of models is also meant to bring to the fore the existing degree of unity in the quantitative approach to diverse general biological questions and in the systems level properties that are discovered across the levels of biological organization It is the thesis of this book that further cultivation of such unity is a way forward as we progress toward a general theory of living matter This is an ideal book for students in the broadest sense of biology who wish to learn from this attempt to present the exemplary models their methodological lessons and the outline of a unified theory of living matter that is now beginning to emerge In addition to a doctoral student preparing for quantitative biology research this reader could also be an interdisciplinary scientist transitioning to biology The latter for example a physicist or an engineer may be comfortable with the mathematical apparatus and prepared to quickly enter the intended area of work but desires a broader foundation in biology from the quantitative perspective Mathematical Models for Communicable Diseases Fred Brauer, Carlos Castillo-Chavez, 2013-02-07 A self contained and comprehensive guide to the mathematical modeling of disease transmission appropriate for graduate students **Elements of Mathematical Biology** Alfred J. Lotka, 1956 General principles Kinetics Statics Dynamics Modelling Complex Ecological Dynamics Fred Jopp, Hauke Reuter, Broder Breckling, 2011-02-11 Model development is of vital importance for understanding and management of ecological processes Identifying the complex relationships between ecological patterns and processes is a crucial task Ecological modelling both qualitatively and quantitatively plays a vital role in analysing ecological phenomena and for ecological theory This textbook provides a unique

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Potts, 2016-05-05 This book investigates the mathematical analysis of biological invasions Unlike purely qualitative treatments of ecology it draws on mathematical theory and methods equipping the reader with sharp tools and rigorous methodology Subjects include invasion dynamics species interactions population spread long distance dispersal stochastic effects risk analysis and optimal responses to invaders While based on the theory of dynamical systems including partial differential equations and integrodifference equations the book also draws on information theory machine learning Monte Carlo methods optimal control statistics and stochastic processes Applications to real biological invasions are included throughout Ultimately the book imparts a powerful principle that by bringing ecology and mathematics together researchers can uncover new understanding of and effective response strategies to biological invasions It is suitable for graduate students and established researchers in mathematical ecology Mathematical and Experimental Modeling of Physical and Biological Processes H.T. Banks, H.T. Tran, 2009-01-12 Through several case study problems from industrial and scientific research laboratory applications Mathematical and Experimental Modeling of Physical and Biological Processes provides students with a fundamental understanding of how mathematics is applied to problems in science and engineering For each case study problem the authors discuss why a model is needed and what goals can be achieved with the model Exploring what mathematics can reveal about applications the book focuses on the design of appropriate experiments to validate the development of mathematical models It guides students through the modeling process from empirical observations and formalization of properties to model analysis and interpretation of results The authors also describe the hardware and software tools used to design the experiments so faculty students can duplicate them Integrating real world applications into the traditional mathematics curriculum this textbook deals with the formulation and analysis of mathematical models in science and engineering It gives students an appreciation of the use of mathematics and encourages them to further study the applied topics Real experimental data for projects can be downloaded from CRC Press Online Mathematical Models in Biology Leah Edelstein-Keshet, 1988-01-01 Mathematical Models in Biology is an introductory book for readers interested in biological applications of mathematics and modeling in biology A favorite in the mathematical biology community it shows how relatively simple mathematics can be applied to a variety of models to draw interesting conclusions Connections are made between diverse biological examples linked by common mathematical themes A variety of discrete and continuous ordinary and partial differential equation models are explored Although great advances have taken place in many of the topics covered the simple lessons contained in this book are still important and informative Audience the book does not assume too much background knowledge essentially some calculus and high school algebra It was originally written with third and fourth year undergraduate mathematical biology majors in mind however it was picked up by beginning graduate students as well as researchers in math and some in biology who wanted to learn about this field Introduction to Mathematical Methods in Population Theory Jacek Banasiak, 2024-12-20 This textbook provides an introduction to the mathematical methods used to analyse deterministic models in life sciences including population dynamics epidemiology and ecology The book covers both discrete and continuous models The presentation emphasises the solvability of the equations appearing in the mathematical modelling of natural phenomena and in the absence of solutions the analysis of their relevant properties Of particular interest are methods that allow for determining the long term behaviour of solutions Thus the book covers a range of techniques from the classical Lyapunov theorems and positivity methods based on the Perron Frobenius theorem to the more modern monotone dynamical system approach The book offers a comprehensive presentation of the Lyapunov theory including the inverse Lyapunov theorems with applications to perturbed equations and Vidyasagar theorem Furthermore it provides a coherent presentation of the foundations of the theory of monotone dynamical systems with its applications to epidemiological models Another feature of the book is the derivation of the McKendrick von Foerster equation from the discrete Leslie model and the analysis of the long term behaviour of its solutions Designed for upper undergraduate courses and beyond this textbook is written for students and researchers looking to master the mathematics of the tools commonly used to analyse life science models It therefore goes somewhat deeper into mathematics than typical books at this level but should be accessible to anyone with a good command of calculus with elements of real and complex analysis and linear algebra the necessary concepts are collected in the appendices

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Kirwan, Jr., Arthur J. Mariano, Tamay Özgökmen, H. Thomas Rossby, 2007-05-10 Written by a group of international experts in their field this book is a review of Lagrangian observation analysis and assimilation methods in physical and biological oceanography This multidisciplinary text presents new results on nonlinear analysis of Lagrangian dynamics the prediction of particle trajectories and Lagrangian stochastic models It includes historical information up to date developments and speculation on future developments in Lagrangian based observations analysis and modeling of physical and biological systems Containing contributions from experimentalists theoreticians and modelers in the fields of physical oceanography marine biology mathematics and meteorology this book will be of great interest to researchers and graduate students looking for both practical applications and information on the theory of transport and dispersion in physical systems biological modeling and data assimilation Mathematical Modeling, Computational Intelligence Techniques and Renewable Energy Manoj Sahni, José M Merigó, Gil-Lafuente Annamaria, Ernesto León-Castro, Rajkumar Verma, Ram Naresh Saraswat, 2025-06-24 The book is a collection of best selected research papers presented at the Fourth International Conference on Mathematical Modeling Computational Intelligence Techniques and Renewable Energy MMCITRE 2024 organized by Department of Mathematics and Statistics Manipal University Jaipur Jaipur Rajasthan India This book presents new knowledge and recent developments in all aspects of computational techniques mathematical modeling energy systems applications of fuzzy sets and intelligent computing The book provides innovative works of researchers academicians and students in the area of interdisciplinary mathematics statistics computational intelligence and renewable energy

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