

Texts in Applied Mathematics

Fred Brauer
Carlos Castillo-Chavez

Mathematical Models in Population Biology and Epidemiology

Second Edition

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Mathematical Models In Population Biology And Epidemiology Texts In Applied Mathematics

**Fred Brauer, Carlos Castillo-
Chavez, Zhilan Feng**



Mathematical Models In Population Biology And Epidemiology Texts In Applied Mathematics:

Mathematical Models in Population Biology and Epidemiology Fred Brauer, Carlos Castillo-Chavez, 2013-03-09 As the world population exceeds the six billion mark questions of population explosion of how many people the earth can support and under which conditions become pressing Some of the questions and challenges raised can be addressed through the use of mathematical models but not all The goal of this book is to search for a balance between simple and analyzable models and unsolvable models which are capable of addressing important questions such as these Part I focusses on single species simple models including those which have been used to predict the growth of human and animal population in the past Single population models are in some sense the building blocks of more realistic models the subject of Part II Their role is fundamental to the study of ecological and demographic processes including the role of population structure and spatial heterogeneity the subject of Part III This book which includes both examples and exercises will be useful to practitioners graduate students and scientists working in the field

Mathematical Models in Population Biology and Epidemiology Fred Brauer, Dawn Bles, 2011-11-08 The goal of this book is to search for a balance between simple and analyzable models and unsolvable models which are capable of addressing important questions on population biology Part I focusses on single species simple models including those which have been used to predict the growth of human and animal population in the past Single population models are in some sense the building blocks of more realistic models the subject of Part II Their role is fundamental to the study of ecological and demographic processes including the role of population structure and spatial heterogeneity the subject of Part III This book which will include both examples and exercises is of use to practitioners graduate students and scientists working in the field

Mathematical Approaches for Emerging and Reemerging Infectious Diseases: An Introduction Carlos Castillo-Chavez, 2002-05-02 This book grew out of the discussions and presentations that began during the Workshop on Emerging and Reemerging Diseases May 17 21 1999 sponsored by the Institute for Mathematics and its Application IMA at the University of Minnesota with the support of NIH and NSF The workshop started with a two day tutorial session directed at ecologists epidemiologists immunologists mathematicians and scientists interested in the study of disease dynamics The core of this first volume Volume 125 covers tutorial and research contributions on the use of dynamical systems deterministic discrete delay PDEs and ODEs models and stochastic models in disease dynamics The volume includes the study of cancer HIV pertussis and tuberculosis Beginning graduate students in applied mathematics scientists in the natural social or health sciences or mathematicians who want to enter the fields of mathematical and theoretical epidemiology will find this book useful

Mathematical Models in Epidemiology Fred Brauer, Carlos Castillo-Chavez, Zhilan Feng, 2019-10-10 The book is a comprehensive self contained introduction to the mathematical modeling and analysis of disease transmission models It includes i an introduction to the main concepts of compartmental models including models with heterogeneous mixing of individuals and models for vector transmitted

diseases ii a detailed analysis of models for important specific diseases including tuberculosis HIV AIDS influenza Ebola virus disease malaria dengue fever and the Zika virus iii an introduction to more advanced mathematical topics including age structure spatial structure and mobility and iv some challenges and opportunities for the future There are exercises of varying degrees of difficulty and projects leading to new research directions For the benefit of public health professionals whose contact with mathematics may not be recent there is an appendix covering the necessary mathematical background There are indications which sections require a strong mathematical background so that the book can be useful for both mathematical modelers and public health professionals

Discrete Mathematical Models in Population Biology Saber N. Elaydi, Jim M. Cushing, 2025-01-03 This text lays the foundation for understanding the beauty and power of discrete time models It covers rich mathematical modeling landscapes each offering deep insights into the dynamics of biological systems A harmonious balance is achieved between theoretical principles mathematical rigor and practical applications Illustrative examples numerical simulations and empirical case studies are provided to enhance mastery of the subject and facilitate the translation of discrete time mathematical biology into real world challenges Mainly geared to upper undergraduates the text may also be used in graduate courses focusing on discrete time modeling Chapters 1-4 constitute the core of the text Instructors will find the dependence chart quite useful when designing their particular course This invaluable resource begins with an exploration of single species models where frameworks for discrete time modeling are established Competition models and Predator-prey interactions are examined next followed by evolutionary models structured population models and models of infectious diseases The consequences of periodic variations seasonal changes and cyclic environmental factors on population dynamics and ecological interactions are investigated within the realm of periodically forced biological models This indispensable resource is structured to support educational settings A first course in biomathematics introducing students to the fundamental mathematical techniques essential for biological research A modeling course with a concentration on developing and analyzing mathematical models that encapsulate biological phenomena An advanced mathematical biology course that offers an in-depth exploration of complex models and sophisticated mathematical frameworks designed to tackle advanced problems in biology With its clear exposition and methodical approach this text educates and inspires students and professionals to apply mathematical biology to real world situations While minimal knowledge of calculus is required the reader should have a solid mathematical background in linear algebra

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

A Primer on Population Dynamics Modeling Hiromi Seno, 2022-11-16 This textbook provides an introduction to the mathematical models of population dynamics in mathematical biology The focus of this book is on the biological meaning translation of mathematical structures in mathematical models rather than simply explaining mathematical details and literacies to analyze

a model In some recent usages of the mathematical model simply with computer numerical calculations the model includes some inappropriate mathematical structure concerning the reasonability of modeling for the biological problem under investigation For students and researchers who study or use mathematical models it is important and helpful to understand what mathematical setup could be regarded as reasonable for the model with respect to the relation between the biological factors involved in the assumptions and the mathematical structure of the model Topics covered in this book are modeling with geometric progression density effect in population dynamics deriving continuous time models from discrete time models basic modeling for birth death stochastic processes continuous time models modeling interspecific reaction for the continuous time population dynamics model competition and prey predator dynamics modeling for population dynamics with a heterogeneous structure of population qualitative analysis on the discrete time dynamical system necessary knowledge about fundamental mathematical theories to understand the dynamical nature of continuous time models The book includes popular topics in ecology and mathematical biology as well as classic theoretical topics By understanding the biological meaning of modeling for simple models readers will be able to derive a specific mathematical model for a biological problem by reasonable modeling The contents of this book is made accessible for readers without strong Mathematical background

Differential Equations and Population Dynamics I Arnaud Ducrot, Quentin Griette, Zhihua Liu, Pierre Magal, 2022-06-20

This book presents the basic theoretical concepts of dynamical systems with applications in population dynamics Existence uniqueness and stability of solutions global attractors bifurcations center manifold and normal form theories are discussed with cutting edge applications including a Holling's predator prey model with handling and searching predators and projecting the epidemic forward with varying level of public health interventions for COVID 19 As an interdisciplinary text this book aims at bridging the gap between mathematics biology and medicine by integrating relevant concepts from these subject areas making it self sufficient for the reader It will be a valuable resource to graduate and advance undergraduate students for interdisciplinary research in the area of mathematics and population dynamics

Matrix Models for Population, Disease, and Evolutionary Dynamics J. M. Cushing, 2024-02-29 This book offers an introduction to the use of matrix theory and linear algebra in modeling the dynamics of biological populations Matrix algebra has been used in population biology since the 1940s and continues to play a major role in theoretical and applied dynamics for populations structured by age body size or weight disease states physiological and behavioral characteristics life cycle stages or any of many other possible classification schemes With a focus on matrix models the book requires only first courses in multivariable calculus and matrix theory or linear algebra as prerequisites The reader will learn the basics of modeling methodology i e how to set up a matrix model from biological underpinnings and the fundamentals of the analysis of discrete time dynamical systems equilibria stability bifurcations etc A recurrent theme in all chapters concerns the problem of extinction versus survival of a population In addition to numerous examples that illustrate these fundamentals several

applications appear at the end of each chapter that illustrate the full cycle of model setup mathematical analysis and interpretation The author has used the material over many decades in a variety of teaching and mentoring settings including special topics courses and seminars in mathematical modeling mathematical biology and dynamical systems **Proc. of the Fourth Brazilian Symp. on Mathematical and Computational Biology vol.2: First International Symposium on Mathematical and Computational Biology** , *Nonlinear Functional Analysis and Its Applications* Radu Precup, 2021-04-14 This book consists of nine papers covering a number of basic ideas concepts and methods of nonlinear analysis as well as some current research problems Thus the reader is introduced to the fascinating theory around Brouwer's fixed point theorem to Granas theory of topological transversality and to some advanced techniques of critical point theory and fixed point theory Other topics include discontinuous differential equations new results of metric fixed point theory robust tracker design problems for various classes of nonlinear systems and periodic solutions in computer virus propagation models *An Introduction to Mathematical Epidemiology* Maia Martcheva, 2015-10-20 The book is a comprehensive self contained introduction to the mathematical modeling and analysis of infectious diseases It includes model building fitting to data local and global analysis techniques Various types of deterministic dynamical models are considered ordinary differential equation models delay differential equation models difference equation models age structured PDE models and diffusion models It includes various techniques for the computation of the basic reproduction number as well as approaches to the epidemiological interpretation of the reproduction number MATLAB code is included to facilitate the data fitting and the simulation with age structured models *Mathematical Epidemiology* Fred Brauer, Pauline van den Driessche, J. Wu, 2008-04-30 Based on lecture notes of two summer schools with a 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 [Methods of Mathematical Modelling](#) Thomas Witelski, Mark Bowen, 2015-09-18 This book presents mathematical modelling and the integrated process of formulating sets of equations to describe real world problems It describes methods for obtaining solutions of challenging differential equations stemming from problems in areas such as chemical reactions population dynamics mechanical systems and fluid mechanics Chapters 1 to 4 cover essential topics in

ordinary differential equations transport equations and the calculus of variations that are important for formulating models Chapters 5 to 11 then develop more advanced techniques including similarity solutions matched asymptotic expansions multiple scale analysis long wave models and fast slow dynamical systems Methods of Mathematical Modelling will be useful for advanced undergraduate or beginning graduate students in applied mathematics engineering and other applied sciences

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

Biologically Inspired Networking and Sensing: Algorithms and Architectures Lio, Pietro, Verma, Dinesh, 2011-08-31 Biologically Inspired Networking and Sensing Algorithms and Architectures offers current perspectives and trends in biologically inspired networking exploring various approaches aimed at improving network paradigms Research contained within this compendium of research papers and surveys introduces researches in the fields of communication networks performance modeling and distributed computing to new advances in networking

Mathematical Modelling in Real Life Problems Ewald Lindner, Alessandra Micheletti, Cláudia Nunes, 2020-12-05 This book is intended to be a useful contribution for the modern teaching of applied mathematics educating Industrial Mathematicians that will meet the growing demand for such experts It covers many applications where mathematics play a fundamental role from biology telecommunications medicine physics finance and industry It is presented in such a way that can be useful in Modulation Simulation and Optimization courses targeting master and PhD students Its content is based on many editions from the successful series of Modelling Weeks organized by the European Consortium of Mathematics in Industry ECMI Each chapter

addresses a particular problem and is written in a didactic way providing the description of the problem the particular way of approaching it and the proposed solution along with the results obtained Theoretical Numerical Analysis Kendall Atkinson, Weimin Han, 2006-04-18 Mathematics is playing an ever more important role in the physical and biological sciences provoking a blurring of boundaries between scientific disciplines and a resurgence of interest in the modern as well as the classical techniques of applied mathematics This renewal of interest both in research and teaching has led to the establishment of the series Texts in Applied Mathematics TAM The development of new courses is a natural consequence of a high level of excitement on the research frontier as newer techniques such as numerical and symbolic computer systems dynamical systems and chaos mix with and reinforce the traditional methods of applied mathematics Thus the purpose of this text book series is to meet the current and future needs of these advances and encourage the teaching of new courses TAM will publish textbooks suitable for use in advanced undergraduate and beginning graduate courses and will complement the Applied Mathematical Sciences AMS series which will focus on advanced textbooks and research level monographs *The Dynamics of Biological Systems* Arianna Bianchi, Thomas Hillen, Mark A. Lewis, Yingfei Yi, 2019-10-02 The book presents nine mini courses from a summer school Dynamics of Biological Systems held at the University of Alberta in 2016 as part of the prestigious seminar series Séminaire de Mathématiques Supérieures SMS It includes new and significant contributions in the field of Dynamical Systems and their applications in Biology Ecology and Medicine The chapters of this book cover a wide range of mathematical methods and biological applications They explain the process of mathematical modelling of biological systems with many examples introduce advanced methods from dynamical systems theory present many examples of the use of mathematical modelling to gain biological insight discuss innovative methods for the analysis of biological processes contain extensive lists of references which allow interested readers to continue the research on their own Integrating the theory of dynamical systems with biological modelling the book will appeal to researchers and graduate students in Applied Mathematics and Life Sciences *Proceedings of the Conference on Differential & Difference Equations and Applications* Ravi P. Agarwal, Kanishka Perera, 2006

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