

Texts in Applied Mathematics 61

Maia Martcheva

An Introduction to Mathematical Epidemiology

 Springer

An Introduction To Mathematical Epidemiology Texts In Applied Mathematics

Guillaume Favre



An Introduction To Mathematical Epidemiology Texts In Applied Mathematics:

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

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

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 Mathematical Models in Population Biology and Epidemiology Fred Brauer, Carlos Castillo-Chavez, 2001-03-30 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 **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 *Age-Structured Population Dynamics in Demography and Epidemiology* Hisashi Inaba, 2017-03-15 This book is the first one in which basic demographic models are rigorously formulated by using modern age structured population dynamics extended to study real world population problems Age structure is a crucial factor in understanding population phenomena and the essential ideas in demography and epidemiology cannot be understood without mathematical formulation therefore this book gives readers a robust mathematical introduction to human population studies In the first part of the volume classical demographic models such as the stable population model and its linear extensions density dependent nonlinear models and pair formation models are formulated by the McKendrick partial differential equation and are analyzed from a dynamical system point of view In the second part mathematical models for infectious diseases spreading at the population level are examined by using nonlinear differential equations and a renewal

equation Since an epidemic can be seen as a nonlinear renewal process of an infected population this book will provide a natural unification point of view for demography and epidemiology The well known epidemic threshold principle is formulated by the basic reproduction number which is also a most important key index in demography The author develops a universal theory of the basic reproduction number in heterogeneous environments By introducing the host age structure epidemic models are developed into more realistic demographic formulations which are essentially needed to attack urgent epidemiological control problems in the real world

An Introduction to Mathematical Modeling of Infectious Diseases Michael Y. Li, 2018-01-30 This text provides essential modeling skills and methodology for the study of infectious diseases through a one semester modeling course or directed individual studies The book includes mathematical descriptions of epidemiological concepts and uses classic epidemic models to introduce different mathematical methods in model analysis Matlab codes are also included for numerical implementations It is primarily written for upper undergraduate and beginning graduate students in mathematical sciences who have an interest in mathematical modeling of infectious diseases Although written in a rigorous mathematical manner the style is not unfriendly to non mathematicians

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

Systems Analysis Approach for Complex Global Challenges Priscilla Mensah, David Katerere, Sepo Hachigonta, Andreas Roodt, 2018-04-09 This book which contains a collection of review articles as well as focus on evidence based policy making will serve as a valuable resource not just for all postgraduate students conducting research using systems analysis thinking but also for policy makers To our knowledge a book of this nature which also has a strong African focus is currently not available The book examines environmental and socio economic risks with the aim of providing an analytical foundation for the management and governance of natural resources disasters addressing climate change and easing the technological and ecological transitions to sustainability It provides scientific and strategic analysis to better understand the dynamics of future energy transitions their main driving forces enabling factors barriers as well as their consequences for the social economic and environmental dimensions of

human wellbeing Science based policy advice is achieved through an integrated assessment and modeling of how to simultaneously address the major energy policy challenges in the areas of environment climate change and air pollution energy poverty or access to affordable and clean energy for the poor energy security and reliability It also aims to improve our understanding of ecosystems and their management in today s changing world in particular the current state of ecosystems and their ecological thresholds and buffering capacities It provides support for policy makers in developing rational realistic and science based regional national and global strategies for the production of fuel food and fibre that sustain ecosystem services and safeguard food security Finally it addresses the human development dimension of global change based on comprehensive studies on the changing size and composition of human populations around the world by analyzing both their impacts and the differential vulnerabilities by age gender and level of education

The Basic Approach to Age-Structured Population Dynamics Mimmo Iannelli, Fabio Milner, 2017-08-27 This book provides an introduction to age structured population modeling which emphasizes the connection between mathematical theory and underlying biological assumptions Through the rigorous development of the linear theory and the nonlinear theory alongside numerics the authors explore classical equations that describe the dynamics of certain ecological systems Modeling aspects are discussed to show how relevant problems in the fields of demography ecology and epidemiology can be formulated and treated within the theory In particular the book presents extensions of age structured modeling to the spread of diseases and epidemics while also addressing the issue of regularity of solutions the asymptotic behavior of solutions and numerical approximation With sections on transmission models non autonomous models and global dynamics this book fills a gap in the literature on theoretical population dynamics The Basic Approach to Age Structured Population Dynamics will appeal to graduate students and researchers in mathematical biology epidemiology and demography who are interested in the systematic presentation of relevant models and mathematical methods

Embracing the Track of Appearance: An Psychological Symphony within **An Introduction To Mathematical Epidemiology Texts In Applied Mathematics**

In some sort of taken by monitors and the ceaseless chatter of instant conversation, the melodic elegance and emotional symphony developed by the written term often fade in to the background, eclipsed by the relentless sound and interruptions that permeate our lives. But, located within the pages of **An Introduction To Mathematical Epidemiology Texts In Applied Mathematics** a marvelous fictional value full of natural thoughts, lies an immersive symphony waiting to be embraced. Constructed by a wonderful musician of language, this interesting masterpiece conducts viewers on a mental trip, well unraveling the hidden melodies and profound affect resonating within each cautiously constructed phrase. Within the depths of this moving review, we shall investigate the book is central harmonies, analyze its enthralling writing fashion, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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Table of Contents An Introduction To Mathematical Epidemiology Texts In Applied Mathematics

1. Understanding the eBook An Introduction To Mathematical Epidemiology Texts In Applied Mathematics
 - The Rise of Digital Reading An Introduction To Mathematical Epidemiology Texts In Applied Mathematics
 - Advantages of eBooks Over Traditional Books
2. Identifying An Introduction To Mathematical Epidemiology Texts In Applied Mathematics
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an An Introduction To Mathematical Epidemiology Texts In Applied Mathematics
 - User-Friendly Interface
4. Exploring eBook Recommendations from An Introduction To Mathematical Epidemiology Texts In Applied Mathematics

- Personalized Recommendations
- An Introduction To Mathematical Epidemiology Texts In Applied Mathematics User Reviews and Ratings
- An Introduction To Mathematical Epidemiology Texts In Applied Mathematics and Bestseller Lists
- 5. Accessing An Introduction To Mathematical Epidemiology Texts In Applied Mathematics Free and Paid eBooks
 - An Introduction To Mathematical Epidemiology Texts In Applied Mathematics Public Domain eBooks
 - An Introduction To Mathematical Epidemiology Texts In Applied Mathematics eBook Subscription Services
 - An Introduction To Mathematical Epidemiology Texts In Applied Mathematics Budget-Friendly Options
- 6. Navigating An Introduction To Mathematical Epidemiology Texts In Applied Mathematics eBook Formats
 - ePub, PDF, MOBI, and More
 - An Introduction To Mathematical Epidemiology Texts In Applied Mathematics Compatibility with Devices
 - An Introduction To Mathematical Epidemiology Texts In Applied Mathematics Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of An Introduction To Mathematical Epidemiology Texts In Applied Mathematics
 - Highlighting and Note-Taking An Introduction To Mathematical Epidemiology Texts In Applied Mathematics
 - Interactive Elements An Introduction To Mathematical Epidemiology Texts In Applied Mathematics
- 8. Staying Engaged with An Introduction To Mathematical Epidemiology Texts In Applied Mathematics
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers An Introduction To Mathematical Epidemiology Texts In Applied Mathematics
- 9. Balancing eBooks and Physical Books An Introduction To Mathematical Epidemiology Texts In Applied Mathematics
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection An Introduction To Mathematical Epidemiology Texts In Applied Mathematics
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine An Introduction To Mathematical Epidemiology Texts In Applied Mathematics
 - Setting Reading Goals An Introduction To Mathematical Epidemiology Texts In Applied Mathematics
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of An Introduction To Mathematical Epidemiology Texts In Applied Mathematics
 - Fact-Checking eBook Content of An Introduction To Mathematical Epidemiology Texts In Applied Mathematics
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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