

Epidemic Modelling

An Introduction

D. J. DALEY & J. GANI

Cambridge
Studies in Mathematical Biology

Epidemic Modelling An Introduction

Lauren Gardner



Epidemic Modelling An Introduction:

Epidemic Modelling Daryl J. Daley, Joseph Mark Gani, 1999 This is a general introduction to the mathematical techniques needed to understand epidemiology It begins with an historical outline of some disease statistics before describing simple deterministic and stochastic models

Epidemic Modelling D. J. Daley, J. Gani, 2001-05-28 This general introduction to the mathematical techniques needed to understand epidemiology begins with an historical outline of some disease statistics dating from Daniel Bernoulli's smallpox data of 1760 The authors then go on to describe simple deterministic and stochastic models in continuous and discrete time for epidemics taking place in either homogeneous or stratified nonhomogeneous populations They offer a range of methods for constructing and analyzing models mostly in the context of viral and bacterial diseases of human populations These models are contrasted with models for rumors and macro parasitic diseases Questions of fitting data to models and the use of models to understand methods for controlling the spread of infection are discussed Exercises and complementary results at the end of each chapter extend the scope of the text

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

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

Stochastic Processes: Modeling and Simulation D N Shanbhag, Calyampudi Radhakrishna Rao, 2003-02-24 This sequel to volume 19 of Handbook on Statistics on Stochastic Processes Modelling and Simulation is concerned mainly with the theme of reviewing and in some cases unifying with new ideas the different lines of research and developments in stochastic processes of applied flavour This volume consists of 23 chapters addressing various topics in stochastic processes These include among others those on manufacturing systems random graphs reliability epidemic modelling self similar processes empirical processes time series models extreme value theory applications of Markov chains modelling with Monte

Carlo techniques and stochastic processes in subjects such as engineering telecommunications biology astronomy and chemistry particular with modelling simulation techniques and numerical methods concerned with stochastic processes The scope of the project involving this volume as well as volume 19 is already clarified in the preface of volume 19 The present volume completes the aim of the project and should serve as an aid to students teachers researchers and practitioners interested in applied stochastic processes

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

Dynamical Systems and Their Applications in Biology Shigui Ruan, Gail Susan Kohl Wolkowicz, Jianhong Wu, Fields Institute for Research in Mathematical Sciences, 2003-01-01 This volume is based on the proceedings of the International Workshop on Dynamical Systems and their Applications in Biology held at the Canadian Coast Guard College on Cape Breton Island Nova Scotia Canada It presents a broad picture of the current research surrounding applications of dynamical systems in biology particularly in population biology The book contains 19 papers and includes articles on the qualitative and or numerical analysis of models involving ordinary partial functional and stochastic differential equations Applications include epidemiology population dynamics and physiology The material is suitable for graduate students and research mathematicians interested in ordinary differential equations and their applications in biology Also available by Ruan Wolkowicz and Wu is *Differential Equations with Applications to Biology* Volume 21 in the AMS series Fields Institute Communications

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

Epidemic-logistics Modeling: A New Perspective on Operations Research Ming Liu,Jie Cao,Jing Liang,MingJun Chen,2019-10-03 This book is the first work to conduct the emergency logistics optimization problem under the epidemic environment whether natural or man made which provides a new perspective for the application of optimization theory In this book the research methods involve epidemic dynamics scenario based emergency decision making method big data which combines the traditional and emerging technologies The authors take epidemic outbreak as the research object and deeply integrate the epidemic spread model with the optimization model of emergency resource scheduling which opens up a novel application area of operations research *Mathematical Modelling with Case Studies* B. Barnes,G..R. Fulford,2011-03-23 Focusing on growth and decay processes interacting populations and heating cooling problems *Mathematical Modelling with Case Studies A Differential Equations Approach using Maple and MATLAB Second Edition* presents mathematical techniques applicable to models involving differential equations that describe rates of change Although the authors Trends in Biomathematics: Modeling Epidemiological, Neuronal, and Social Dynamics Rubem P. Mondaini,2023-07-24 This volume gathers together selected peer reviewed works presented at the BIOMAT 2022 International Symposium which was virtually held on November 7 11 2022 with an organization staff based in Rio de Janeiro Brazil Topics touched on in this volume include infection spread in a population described by an agent based approach the study of gene essentiality via network based computational modeling stochastic models of neuronal dynamics and the modeling of a statistical distribution of amino acids in protein domain families The reader will also find texts in epidemic models with dynamic social distancing with no vertical transmission and with general incidence rates Aspects of COVID 19 dynamics the use of an SEIR model to analyze its spread in Brazil the age dependent manner of modeling its spread pattern the impact of media awareness programs and a web based computational tool for Non invasive hemodynamics evaluation of coronary stenosis are also covered Held every year since 2001 The BIOMAT International Symposium gathers together in a single conference researchers from Mathematics Physics Biology and affine fields to promote the interdisciplinary exchange of results ideas and techniques promoting truly international cooperation for problem discussion BIOMAT volumes published from 2017 to 2021 are also available by Springer **Mathematical Modelling and Scientific Computing with Applications** Santanu Manna,Biswa Nath Datta,Sk. Safique Ahmad,2020-02-14 This book contains original research papers presented at the International Conference on Mathematical Modelling and Scientific Computing held at the Indian Institute of Technology Indore India on 19 21 July 2018 Organized into 30 chapters the book presents the recent progress and the most advanced innovations trends and real world challenges encountered and solutions embraced in the applications of mathematics and scientific computing The book will be of interests to a wide variety of researchers students and the

practicing engineers working in diverse areas of science and engineering ranging from applied and computational mathematics vibration problem computer science and numerical optimization to physics chemistry biology electrical civil mechanical chemical seismology aerospace and medical sciences The aim of the conference is to bring together leading academicians scientists researchers engineers and industry partners from all over the globe to exchange and share their experiences and research results on various aspects of applied mathematics and scientific computation like differential equation modeling simulation dynamical systems numerical analysis matrix theory inverse problems and solid and fluid mechanics computational engineering

The Solow Model of Economic Growth Paweł Dykas,Tomasz Tokarski,Rafał Wiśła,2022-10-21 In 1956 Solow proposed a neoclassical growth model in opposition or as an alternative to Keynesian growth models The Solow model of economic growth provided foundations for models embedded in the new theory of economic growth known as the theory of endogenous growth such as the renowned growth models developed by Paul M Romer and Robert E Lucas in the 1980s and 90s The augmentations of the Solow model described in this book excepting the Phelps golden rules of capital accumulation and the Mankiw Romer Weil and Nonneman Vanhoudt models were developed by the authors over the last two decades The book identifies six spheres of interest in modern macroeconomic theory the impact of fiscal and monetary policy on growth the effect of different returns to scale on production the influence of mobility of factors of production among different countries on their development the effect of population dynamics on growth the periodicity of investment rates and their influence on growth and the effect of exogenous shocks in the form of an epidemic For each of these issues the authors construct and analyze an appropriate growth model that focuses on the description of the specific macroeconomic problem This book not only continues the neoclassical tradition of thought in economics focused on quantitative economic change but also and to a significant extent discusses alternative approaches to certain questions of economic growth utilizing conclusions that can be drawn from the Solow model It is a useful tool in analyzing contemporary issues related to growth

Mathematical Methods and Models in Biomedicine Urszula Ledzewicz,Heinz Schättler,Avner Friedman,Eugene Kashdan,2012-10-21 Mathematical biomedicine is a rapidly developing interdisciplinary field of research that connects the natural and exact sciences in an attempt to respond to the modeling and simulation challenges raised by biology and medicine There exist a large number of mathematical methods and procedures that can be brought in to meet these challenges and this book presents a palette of such tools ranging from discrete cellular automata to cell population based models described by ordinary differential equations to nonlinear partial differential equations representing complex time and space dependent continuous processes Both stochastic and deterministic methods are employed to analyze biological phenomena in various temporal and spatial settings This book illustrates the breadth and depth of research opportunities that exist in the general field of mathematical biomedicine by highlighting some of the fascinating interactions that continue to develop between the mathematical and biomedical sciences It consists of five parts that can be read

independently but are arranged to give the reader a broader picture of specific research topics and the mathematical tools that are being applied in its modeling and analysis. The main areas covered include immune system modeling, blood vessel dynamics, cancer modeling and treatment, and epidemiology. The chapters address topics that are at the forefront of current biomedical research such as cancer stem cells, immunodominance, and viral epitopes, aggressive forms of brain cancer, or gene therapy. The presentations highlight how mathematical modeling can enhance biomedical understanding and will be of interest to both the mathematical and the biomedical communities, including researchers already working in the field as well as those who might consider entering it. Much of the material is presented in a way that gives graduate students and young researchers a starting point for their own work.

Advances in Epidemiological Modeling and Control of Viruses

Hemen Dutta, Khalid Hattaf, 2023-01-06. *Advances in Epidemiological Modeling and Control of Viruses* covers recent and advanced research works in the field of epidemiological modeling with special emphasis on new strategies to control the occurrence and reoccurrence of viruses. The models included in this book can be used to study the dynamics of different viruses, searching for control measures, and epidemic models under various effects and environments. This book covers different models and methods of modeling, including data-driven approaches. The authors and editors are experienced researchers, and each chapter has been designed to provide readers with leading edge information on topics discussed. Includes models to describe global and local dynamics of various viruses. Provides readers with control strategies for occurrence and reoccurrence of viruses. Includes epidemic models under various effects and environments. Provides readers with a robust set of mathematical tools and techniques for epidemiological modeling.

Mathematics of Continuous and Discrete Dynamical Systems Abba B. Gumel, 2014-06-18. This volume contains the proceedings of the AMS Special Session on Nonstandard Finite Difference Discretizations and Nonlinear Oscillations in honor of Ronald Mickens's 70th birthday held January 9-10, 2013, in San Diego, CA. Included are papers on design and analysis of discrete time and continuous time dynamical systems arising in the natural and engineering sciences, in particular the design of robust nonstandard finite difference methods for solving continuous time ordinary and partial differential equation models, the analytical and numerical study of models that undergo nonlinear oscillations, as well as the design of deterministic and stochastic models for epidemiological and ecological processes. Some of the specific topics covered in the book include the analysis of deterministic and stochastic SIR type models, the assessment of cost effectiveness of vaccination problems, finite difference methods for oscillatory dynamical systems including the Schrödinger equation and Brusselator system, the design of exact and elementary stable finite difference methods, the study of a two patch model with Allee effects and disease modified fitness, the study of the delay differential equation model with application to circadian rhythm, and the application of some special functions in the solutions of some problems arising in the natural and engineering sciences. A notable feature of the book is the collection of some relevant open problems intended to help guide the direction of future research in the area.

Introduction to

Stochastic Processes with R Robert P. Dobrow, 2016-03-07 An introduction to stochastic processes through the use of R Introduction to Stochastic Processes with R is an accessible and well balanced presentation of the theory of stochastic processes with an emphasis on real world applications of probability theory in the natural and social sciences The use of simulation by means of the popular statistical software R makes theoretical results come alive with practical hands on demonstrations Written by a highly qualified expert in the field the author presents numerous examples from a wide array of disciplines which are used to illustrate concepts and highlight computational and theoretical results Developing readers problem solving skills and mathematical maturity Introduction to Stochastic Processes with R features More than 200 examples and 600 end of chapter exercises A tutorial for getting started with R and appendices that contain review material in probability and matrix algebra Discussions of many timely and stimulating topics including Markov chain Monte Carlo random walk on graphs card shuffling Black Scholes options pricing applications in biology and genetics cryptography martingales and stochastic calculus Introductions to mathematics as needed in order to suit readers at many mathematical levels A companion web site that includes relevant data files as well as all R code and scripts used throughout the book Introduction to Stochastic Processes with R is an ideal textbook for an introductory course in stochastic processes The book is aimed at undergraduate and beginning graduate level students in the science technology engineering and mathematics disciplines The book is also an excellent reference for applied mathematicians and statisticians who are interested in a review of the topic

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 practioners and senior undergraduate and graduate students in applied mathematics biology bioinformatics and epidemiology medicine and health sciences

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

Modeling And Dynamics Of Infectious Diseases Zhien Ma,Yicang Zhou,Jianhong Wu,2009-04-20 This book provides a systematic introduction to the fundamental methods and techniques and the frontiers of along with many new ideas and results on infectious disease modeling parameter estimation and transmission dynamics It provides complementary approaches from deterministic to statistical to network modeling and it seeks viewpoints of the same issues from different angles from mathematical modeling to statistical analysis to computer simulations and finally to concrete applications

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