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Pauline van den Driessche
Jianhong Wu (Eds.)

Mathematical Epidemiology

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Mathematical Epidemiology Lecture Notes In Mathematics

Fred Jopp,Hauke Reuter,Broder Breckling

Mathematical Epidemiology Lecture Notes In Mathematics:

Mathematical Epidemiology Fred Brauer,Pauline van den Driessche,J. Wu,2008-04-13 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 **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 *Mathematical Models in Population Biology and Epidemiology* Fred Brauer,Carlos Castillo-Chavez,2011-11-09 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 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 **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

An Introduction to Stochastic Processes with Applications to Biology Linda J. S. Allen,2010-12-02 An Introduction to Stochastic Processes with Applications to Biology Second Edition presents the basic theory of stochastic processes necessary in understanding and applying stochastic methods to biological problems in areas such as population growth and extinction drug kinetics two species competition and predation the spread of epidemics and Applied Mathematical Analysis and Computations II Divine Wanduku,Shijun Zheng,Haomin Zhou,Zhan Chen,Andrew Sills,Ephraim Agyingi,2024-11-15 This volume convenes selected peer reviewed research and survey articles that address the modern state of the art in varied areas of applied mathematical analysis They were presented at the 1st Southern Georgia Mathematics Conference SGMC that was virtually held on April 2 3 2021 at Georgia Southern University Statesboro USA Papers in this volume incorporate both advanced theory and methods from mathematical analysis and cover myriad topics such as imaging and inverse problems evolutionary PDEs symbolic computation dynamics and data analysis data science computational mathematics and more This second volume focuses on modeling simulation and data analytical studies in the field of computational mathematics These studies and findings contained herein will be of interest to researchers and graduate students working in the fields of mathematical analysis modeling data analysis and computation with applications in many interdisciplinary applied sciences including statistics physics biology and medical imaging They are particularly relevant to those at the forefront of applied mathematical and statistical analysis as well as data science and other computational science disciplines In its first edition the Southern Georgia Mathematics Conference brought together 74 speakers from 70 different institutions including the

USA Canada Austria and Botswana Attendees included faculty researchers experts graduate and undergraduate students from all over the world   Physiological and Molecular Plant Pathology H.N. Gour,2018-03-01 The book has 17 chapters dealing with recent developments in physiological and molecular plant pathology the entry and establishment of pathogen physiological disorders during the infection mechanism of multiplication of the pathogens in the host and destabilization of the biochemical machinery of the host The book deciphers the response and reactions of the host plant at molecular level The chapter on Mechanism of Disease Resistance explores its genetic basis providing an insight into the breeding plants for disease resistance The chapter entitled Plant Pathology Society Ethics and Environment deals with all round views of applied plant pathology issues of food safety and the role of plant pathology bioterrorism agroterrorism biological warfare etc Four chapters comprehensively deal on latest molecular research work on different approaches to unravel the mechanism of plant pathogenesis The book perhaps first such contribution containing comprehensive text may be widely welcomed Topics dealt in the book are relevant to the PG course content approved by ICAR in Plant Pathology and adopted in all the State Agricultural Universities SAUs The book has Plant Pathology as a special paper in Botany and some chapters most relevant to Plant Biotechnology The book also serves as a good reference and a text book for PG students and research scholars

Decision and Game Theory for Security John S. Baras,Jonathan Katz,Eitan Altman,2011-11-11 This book constitutes the refereed proceedings of the Second International Conference on Decision and Game Theory for Security GameSec 2011 held in College Park Maryland USA in November 2011 The 16 revised full papers and 2 plenary keynotes presented were carefully reviewed and selected from numerous submissions The papers are organized in topical sections on attacks adversaries and game theory wireless adhoc and sensor networks network games security insurance security and trust in social networks and security investments   Math and Bio 2010 Lynn Arthur Steen,2005 Math and bio 2010 grew out of Meeting the Challenges Education across the Biological Mathematical and Computer Sciences a joint project of the Mathematical Association of America MAA the National Science Foundation Division of Undergraduate Education NSF DUE the National Institute of General Medical Sciences NIGMS the American Association for the Advancement of Science AAAS and the American Society for Microbiology ASM Foreword p vi   **Oxford Textbook of Global Public Health** Roger Detels,Martin Gulliford,Quarraisha Abdool Karim,Chorh Chuan Tan,2017 Sixth edition of the hugely successful internationally recognised textbook on global public health and epidemiology comprehensively covering the scope methods and practice of the discipline   *Ecological Time Series* Thomas M. Powell,John H. Steele,2012-12-06 This book results from a summer school held at Cornell University in 1992 The participants were graduate students and postdoctoral researchers selected from a broad range of interests and backgrounds in ecological studies The summer school was the second in a continuing series whose underlying aim and the aim of this volume is to bring together the different methods and concepts underpinning terrestrial freshwater and marine ecology The first volume in the series focused on patch dynamics in these

three ecologi cal sectors Here we have endeavored to complement that volume by extending its comparative approach to the consideration of ecological time series The types of data and the methods of collection are necessarily very different in these contrasting environments yet the underlying concept and the technical problems of analysis have much in common It proved to be of great interest and value to the summer school participants to see the differences and then work through to an appreciation ofthe generalizable concepts We believe that such an approach must have value as well for a much larger audience and we have structured this volume to provide a comparable reading experience   Dynamical Systems Zeraoulia Elhadj,2019-01-21 Chaos is the idea that a system will produce very different long term behaviors when the initial conditions are perturbed only slightly Chaos is used for novel time or energy critical interdisciplinary applications Examples include high performance circuits and devices liquid mixing chemical reactions biological systems crisis management secure information processing and critical decision making in politics economics as well as military applications etc This book presents the latest investigations in the theory of chaotic systems and their dynamics The book covers some theoretical aspects of the subject arising in the study of both discrete and continuous time chaotic dynamical systems This book presents the state of the art of the more advanced studies of chaotic dynamical systems   **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 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   *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 *Analyzing and Modeling Spatial and Temporal Dynamics of Infectious Diseases* Dongmei Chen,Bernard Moulin,Jianhong Wu,2014-12-08 Features modern research and methodology on the spread of infectious diseases and showcases a broad range of multi disciplinary and state of the art techniques on geo simulation geo visualization remote sensing metapopulation modeling cloud computing and pattern analysis Given the ongoing risk of infectious diseases worldwide it is crucial to develop appropriate analysis methods models and tools to assess and predict the spread of disease and evaluate the risk Analyzing and Modeling Spatial and Temporal Dynamics of Infectious Diseases features mathematical and spatial modeling approaches that integrate applications from various fields such as geo computation and simulation spatial analytics mathematics statistics epidemiology and health policy In addition the book captures the latest advances in the use of geographic information system GIS global positioning system GPS and other location based technologies in the spatial and temporal study of infectious diseases Highlighting the current practices and methodology via various infectious disease studies Analyzing and Modeling Spatial and Temporal Dynamics of Infectious Diseases features Approaches to better use infectious disease data collected from various sources for analysis and modeling purposes Examples of disease spreading dynamics including West Nile virus bird flu Lyme disease pandemic influenza H1N1 and schistosomiasis Modern techniques such as Smartphone use in spatio temporal usage data cloud computing enabled cluster detection and communicable disease geo simulation based on human mobility An overview of different mathematical statistical spatial modeling and geo simulation techniques Analyzing and Modeling Spatial and Temporal Dynamics of Infectious Diseases is an excellent resource for researchers and scientists who use manage or analyze infectious disease data need to learn various traditional and advanced analytical methods and modeling techniques and become aware of different issues and challenges related to infectious disease modeling and simulation The book is also a useful textbook and or supplement for upper undergraduate and graduate level courses in bioinformatics biostatistics public health and policy and epidemiology 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 overview of modelling approaches Representing the state of the art in modern ecology it shows how to construct and work

with various different model types It introduces the background of each approach and its application in ecology Differential equations matrix approaches individual based models and many other relevant modelling techniques are explained and demonstrated with their use The authors provide links to software tools and course materials With chapters written by leading specialists Modelling Complex Ecological Dynamics is an essential contribution to expand the qualification of students teachers and scientists alike **Disease Modelling and Public Health, Part A** ,2017-10-13 Disease Modelling and Public Health Part A Volume 36 addresses new challenges in existing and emerging diseases with a variety of comprehensive chapters that cover Infectious Disease Modeling Bayesian Disease Mapping for Public Health Real time estimation of the case fatality ratio and risk factor of death Alternative Sampling Designs for Time To Event Data with Applications to Biomarker Discovery in Alzheimer s Disease Dynamic risk prediction for cardiovascular disease An illustration using the ARIC Study Theoretical advances in type 2 diabetes Finite Mixture Models in Biostatistics and Models of Individual and Collective Behavior for Public Health Epidemiology As a two part volume the series covers an extensive range of techniques in the field It present a vital resource for statisticians who need to access a number of different methods for assessing epidemic spread in population or in formulating public health policy Presents a comprehensive two part volume written by leading subject experts Provides a unique breadth and depth of content coverage Addresses the most cutting edge developments in the field Includes chapters on Ebola and the Zika virus topics which have grown in prominence and scholarly output **Architectural Factors for Infection and Disease Control** AnnaMarie Bliss,Dak Kopec,2022-09-05 This edited collection explores disease transmission and the ways that the designed environment has promoted or limited its spread It discusses the many design factors that can be used for infection and disease control through lenses of history public health building technology design and education This book calls on designers to consider the role of the built environment as the primary source of bacterial viral and fungal transfers through fomites ventilation systems and overcrowding and spatial organization Through 19 original contributions it provides an array of perspectives to understand how the designed environment may offer a reprieve from disease The authors build a historical foundation of infection and disease using examples ranging from lazarettos to leprosy centers to show how the ability to control infection and disease has long been a concern for humanity The book goes on to discuss disease propagation putting forth a variety of ideas to control the transmission of pathogens including environmental design strategies pedestrian dynamics and open space Its final chapters serve as a prospective way forward focusing on COVID 19 and the built environment in a post pandemic world Written for students and academics of architecture design and urban planning this book ignites creative action on the ways to design our built environment differently and more holistically Please note that research on COVID 19 has exponentially grown since this volume was written in October 2020 References cited reflect the evolving nature of research studies at that time

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