Mathematical Epidemiology of Infectious Diseases

Model Building, Analysis and Interpretation

O. Diekmann, J. A. P. Heesterbeek

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Mathematical Epidemiology Of Infectious Diseases Model Building Analysis And Interpretation

W. John W. Morrow,Nadeem A. Sheikh,Clint S. Schmidt,D. Huw Davies

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    Mathematical Epidemiology of Infectious Diseases O. Diekmann,J. A. P. Heesterbeek,2000-04-07 Mathematical Epidemiology of Infectious Diseases Model Building Analysis and Interpretation O Diekmann University of Utrecht The Netherlands J A P Heesterbeek Centre for Biometry Wageningen The Netherlands The mathematical modelling of epidemics in populations is a vast and important area of study It is about translating biological assumptions into mathematics about mathematical analysis aided by interpretation and about obtaining insight into epidemic phenomena when translating mathematical results back into population biology Model assumptions are formulated in terms of usually stochastic behaviour of individuals and then the resulting phenomena at the population level are unravelled Conceptual clarity is attained assumptions are stated clearly hidden working hypotheses are attained and mechanistic links between different observables are exposed Features Model construction analysis and interpretation receive detailed attention Uniquely covers both deterministic and stochastic viewpoints Examples of applications given throughout Extensive coverage of the latest research into the mathematical modelling of epidemics of infectious diseases Provides a solid foundation of modelling skills The reader will learn to translate model analyse and interpret with the help of the numerous exercises In literally working through this text the reader acquires modelling skills that are also valuable outside of epidemiology certainly within population dynamics but even beyond that In addition the reader receives training in mathematical argumentation The text is aimed at applied mathematicians with an interest in population biology and epidemiology at theoretical biologists and epidemiologists Previous exposure to epidemic concepts is not required as all background information is given The book is primarily aimed at self study and ideally suited for small discussion groups or for use as a course text   **Mathematical Epidemiology of Infectious Diseases** O. Diekmann,J. A. P. Heesterbeek,2000-04-07 Mathematical Epidemiology of Infectious Diseases Model Building Analysis and Interpretation O Diekmann University of Utrecht The Netherlands J A P Heesterbeek Centre for Biometry Wageningen The Netherlands The mathematical modelling of epidemics in populations is a vast and important area of study It is about translating biological assumptions into mathematics about mathematical analysis aided by interpretation and about obtaining insight into epidemic phenomena when translating mathematical results back into population biology Model assumptions are formulated in terms of usually stochastic behaviour of individuals and then the resulting phenomena at the population level are unravelled Conceptual clarity is attained assumptions are stated clearly hidden working hypotheses are attained and mechanistic links between different observables are exposed Features Model construction analysis and interpretation receive detailed attention Uniquely covers both deterministic and stochastic viewpoints Examples of applications given throughout Extensive coverage of the latest research into the mathematical modelling of epidemics of infectious diseases Provides a solid foundation of modelling skills The reader will learn to translate model analyse and interpret with the help of the numerous exercises In literally working through this text the reader acquires modelling skills

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Numerical simulations are also given to augment and illustrate the theoretical results and to help study the efficacy of the control schemes   Quantitative Methods for Investigating Infectious Disease Outbreaks Ping Yan,Gerardo Chowell,2019-08-16 This book provides a systematic treatment of the mathematical underpinnings of work in the theory of outbreak dynamics and their control covering balanced perspectives between theory and practice including new material on contemporary topics in the field of infectious disease modelling Specifically it presents a unified mathematical framework linked to the distribution theory of non negative random variables the many examples used in the text are introduced and discussed in light of theoretical perspectives The book is organized into 9 chapters The first motivates the presentation of the material on subsequent chapters Chapter 2 3 provides a review of basic concepts of probability and statistical models for the distributions of continuous lifetime data and the distributions of random counts and counting processes which are linked to phenomenological models Chapters 4 focuses on dynamic behaviors of a disease outbreak during the initial phase while Chapters 5 6 broadly cover compartment models to investigate the consequences of epidemics as the outbreak moves beyond the initial phase Chapter 7 provides a transition between mostly theoretical topics in earlier chapters and Chapters 8 and 9 where the focus is on the data generating processes and statistical issues of fitting models to data as well as specific mathematical epidemic modeling applications respectively This book is aimed at a wide audience ranging from graduate students to established scientists from quantitatively oriented fields of epidemiology mathematics and statistics The numerous examples and illustrations make understanding of the mathematics of disease transmission and control accessible Furthermore the examples and exercises make the book suitable for motivated students in applied mathematics either through a lecture course or through self study This text could be used in graduate schools or special summer schools covering research problems in mathematical biology   **Mathematical and Statistical Modeling for Emerging and Re-emerging Infectious Diseases** Gerardo Chowell,James M. Hyman,2016-07-27 The contributions by epidemic modeling experts describe how mathematical models and statistical forecasting are created to capture the most important aspects of an emerging epidemic Readers will discover a broad range of approaches to address questions such as Can we control Ebola via ring vaccination strategies How quickly should we detect Ebola cases to ensure epidemic control What is the likelihood that an Ebola epidemic in West Africa leads to secondary outbreaks in other parts of the world When does it matter to incorporate the role of disease induced mortality on epidemic models What is the role of behavior changes on Ebola dynamics How can we better understand the control of cholera or Ebola using optimal control theory How should a population be structured in order to mimic the transmission dynamics of diseases such as chlamydia Ebola or cholera How can we objectively determine the end of an epidemic How can we use metapopulation models to understand the role of movement restrictions and migration patterns on the spread of infectious diseases How can we capture the impact of household transmission using compartmental epidemic models How could behavior dependent vaccination affect the dynamical

outcomes of epidemic models The derivation and analysis of the mathematical models addressing these questions provides a wide ranging overview of the new approaches being created to better forecast and mitigate emerging epidemics This book will be of interest to researchers in the field of mathematical epidemiology as well as public health workers

Mathematical Modeling, Simulations, and AI for Emergent Pandemic Diseases Esteban A. Hernandez-Vargas,Jorge X. Velasco-Hernandez,2023-03-21 Mathematical Modeling Simulations and Artificial Intelligence for Emergent Pandemic Diseases Lessons Learned from COVID 19 includes new research models and simulations developed during the COVID 19 pandemic into how mathematical methods and practice can impact future response Chapters go beyond forecasting COVID 19 bringing different scale angles and mathematical techniques e g ordinary differential and difference equations agent based models artificial intelligence and complex networks which could have potential use in modeling other emergent pandemic diseases A major part of the book focuses on preparing the scientific community for the next pandemic particularly the application of mathematical modeling in ecology economics and epidemiology Readers will benefit from learning how to apply advanced mathematical modeling to a variety of topics of practical interest including optimal allocations of masks and vaccines but also more theoretical problems such as the evolution of viral variants Provides a comprehensive overview of the state of the art in mathematical modeling and computational simulations for emerging pandemics Presents modeling techniques that go beyond COVID 19 and that can be applied to tailoring interventions to attenuate high death tolls Includes illustrations tables and dialog boxes to explain highly specialized concepts and insights with complex algorithms along with links to programming code *Optimal Control of Age-structured Populations in Economy, Demography, and the Environment* Raouf Boucekkine,Natali Hritonenko,Yuri Yatsenko,2013-05-13 This book covers a wide range of topics within mathematical modelling and the optimization of economic demographic technological and environmental phenomena Each chapter is written by experts in their field and represents new advances in modelling theory and practice These essays are exemplary of the fruitful interaction between theory and practice when exploring global and local changes The unifying theme of the book is the use of mathematical models and optimization methods to describe age structured populations in economy demography technological change and the environment Emphasis is placed on deterministic dynamic models that take age or size structures delay effects and non standard decision variables into account In addition the contributions deal with the age structure of assets resources and populations under study Interdisciplinary modelling has enormous potential for discovering new insights in global and regional development Optimal Control of Age structured Populations in Economy Demography and the Environment is a rich and excellent source of information on state of the art modelling expertise and references The book provides the necessary mathematical background for readers from different areas such as applied sciences management sciences and operations research which helps guide the development of practical models As well as this the book also surveys the current practice in applied modelling and looks at new research

areas for a general mathematical audience This book will be of interest primarily to researchers postgraduate students as well as a wider scientific community including those focussing on the subjects of applied mathematics environmental sciences economics demography management and operations research *Predicting Pandemics in a Globally Connected World, Volume 1* Nicola Bellomo,Mark A. J. Chaplain,2022-09-22 This contributed volume investigates several mathematical techniques for the modeling and simulation of viral pandemics with a special focus on COVID 19 Modeling a pandemic requires an interdisciplinary approach with other fields such as epidemiology virology immunology and biology in general Spatial dynamics and interactions are also important features to be considered and a multiscale framework is needed at the level of individuals and the level of virus particles and the immune system Chapters in this volume address these items as well as offer perspectives for the future **Mathematics and Computing 2013** Ram N. Mohapatra,Debasis Giri,P. K. Saxena,P. D. Srivastava,2014-08-22 This book discusses recent developments and contemporary research in mathematics statistics and their applications in computing All contributing authors are eminent academicians scientists researchers and scholars in their respective fields hailing from around the world The conference has emerged as a powerful forum offering researchers a venue to discuss interact and collaborate and stimulating the advancement of mathematics and its applications in computer science The book will allow aspiring researchers to update their knowledge of cryptography algebra frame theory optimizations stochastic processes compressive sensing functional analysis complex variables etc Educating future consumers users producers developers and researchers in mathematics and computing is a challenging task and essential to the development of modern society Hence mathematics and its applications in computer science are of vital importance to a broad range of communities including mathematicians and computing professionals across different educational levels and disciplines Vaccinology W. John W. Morrow,Nadeem A. Sheikh,Clint S. Schmidt,D. Huw Davies,2012-06-12 Covering all aspects of vaccine research and development in one volume this authoritative resource takes a comprehensive and systematic approach to the science of vaccinology focusing not only on basic science but also on the many stages required to commercialize and navigate the regulatory requirements for human application both in the United States and Europe Reviews in detail the process of designing a vaccine from the initial stages of antigen discovery to human application Includes evaluation of vaccine efficacy and safety Details clinical trial design including regulatory requirements Discusses the emerging field of active cellular immunotherapy Vaccinology Principles and Practice provides an invaluable resource for clinicians scientific and medical researchers lecturers and postdoctoral fellows working in the field of vaccines

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

Mathematical Models for Neglected Tropical Diseases: Essential Tools for Control and Elimination, Part A ,2015-03-10 First published in 1963 Advances in Parasitology contains comprehensive and up to date reviews in all areas of interest in

contemporary parasitology Advances in Parasitology includes medical studies of parasites of major influence such as Plasmodium falciparum and trypanosomes The series also contains reviews of more traditional areas such as zoology taxonomy and life history which shape current thinking and applications The 2013 impact factor is 4 36 Informs and updates on all the latest developments in the field Contributions from leading authorities and industry experts   <u>Biological Networks</u> Fran□ois K□p□s,2007 This volume presents a timely and comprehensive overview of biological networks at all organization levels in the spirit of the complex system approach It discusses the transversal issues and fundamental principles as well as the overall structure dynamics and modeling of a wide array of biological networks at the molecular cellular and population levels Anchored in both empirical data and a strong theoretical background the book therefore lends valuable credence to the complex systems approach   **Bioterrorism** H. T. Banks,C. Castillo-Ch?avez,2003-01-01 Bioterrorism Mathematical Modeling Applications in Homeland Security collects the detailed contributions of selected groups of experts from the fields of biostatistics control theory epidemiology and mathematical biology who have engaged in the development of frameworks models and mathematical methods needed to address some of the pressing challenges posed by acts of terror The ten chapters of this volume touch on a large range of issues in the subfields of biosurveillance agroterrorism bioterror response logistics deliberate release of biological agents impact assessment and the spread of fanatic behaviors   <u>Nature-Inspired Intelligent Techniques for Solving Biomedical Engineering Problems</u> Kose, Utku,Guraksin, Gur Emre,Deperlioglu, Omer,2018-03-31 Technological tools and computational techniques have enhanced the healthcare industry These advancements have led to significant progress and novel opportunities for biomedical engineering Nature Inspired Intelligent Techniques for Solving Biomedical Engineering Problems is a pivotal reference source for emerging scholarly research on trends and techniques in the utilization of nature inspired approaches in biomedical engineering Featuring extensive coverage on relevant areas such as artificial intelligence clinical decision support systems and swarm intelligence this publication is an ideal resource for medical practitioners professionals students engineers and researchers interested in the latest developments in biomedical technologies   **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 S minaire de Math matiques Sup rieures 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

Network Science Ernesto Estrada,Maria Fox,Desmond J. Higham,Gian-Luca Oppo,2010-08-24 Network Science is the emerging field concerned with the study of large realistic networks This interdisciplinary endeavor focusing on the patterns of interactions that arise between individual components of natural and engineered systems has been applied to data sets from activities as diverse as high throughput biological experiments online trading information smart meter utility supplies and pervasive telecommunications and surveillance technologies This unique text reference provides a fascinating insight into the state of the art in network science highlighting the commonality across very different areas of application and the ways in which each area can be advanced by injecting ideas and techniques from another The book includes contributions from an international selection of experts providing viewpoints from a broad range of disciplines It emphasizes networks that arise in nature such as food webs protein interactions gene expression and neural connections and in technology such as finance airline transport urban development and global trade Topics and Features begins with a clear overview chapter to introduce this interdisciplinary field discusses the classic network science of fixed connectivity structures including empirical studies mathematical models and computational algorithms examines time dependent processes that take place over networks covering topics such as synchronisation and message passing algorithms investigates time evolving networks such as the World Wide Web and shifts in topological properties connectivity spectrum percolation explores applications of complex networks in the physical and engineering sciences looking ahead to new developments in the field Researchers and professionals from disciplines as varied as computer science mathematics engineering physics chemistry biology ecology neuroscience epidemiology and the social sciences will all benefit from this topical and broadoverview of current activities and grand challenges in the unfolding field of network science

Whispering the Secrets of Language: An Psychological Quest through **Mathematical Epidemiology Of Infectious Diseases Model Building Analysis And Interpretation**

In a digitally-driven earth wherever displays reign great and instant transmission drowns out the subtleties of language, the profound strategies and mental subtleties concealed within phrases frequently move unheard. Yet, set within the pages of **Mathematical Epidemiology Of Infectious Diseases Model Building Analysis And Interpretation** a captivating fictional prize pulsating with raw thoughts, lies an exceptional quest waiting to be undertaken. Penned by a skilled wordsmith, this marvelous opus encourages readers on an introspective trip, lightly unraveling the veiled truths and profound impact resonating within ab muscles material of every word. Within the psychological depths with this moving review, we will embark upon a genuine exploration of the book is core subjects, dissect their captivating publishing type, and fail to the powerful resonance it evokes deep within the recesses of readers hearts.

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