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# 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

**Rafik A. Aliev, Janusz Kacprzyk, Witold  
Pedrycz, Mo. Jamshidi, Fahreddin M.  
Sadikoglu**

## **Mathematical Epidemiology Of Infectious Diseases Model Building Analysis And Interpretation:**

**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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**Mathematical Epidemiology of Infectious Diseases** O. Diekmann,2000 Provides systematic coverage of the mathematical theory of modelling epidemics in populations with a clear and coherent discussion of the issues concepts and phenomena Mathematical modelling of epidemics is a vast and important area of study and this book helps the reader to translate model analyse and interpret with numerous applications examples and exercises to aid understanding Publisher description

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

An Introduction to Infectious Disease Modelling Emilia Vynnycky,Richard White,2010-05-13 Mathematical models are increasingly being used to examine questions in infectious disease control Applications include predicting the impact of vaccination strategies against common infections and determining optimal control strategies against HIV and pandemic influenza This book introduces individuals interested in infectious diseases to this exciting and expanding area The mathematical level of the book is kept as simple as possible which makes the book accessible to those who have not studied mathematics to university level Understanding is further enhanced by models that can be accessed online which will allow readers to explore the impact of different factors and control strategies and further adapt and develop the models themselves The book is based on successful courses developed by the authors at the London School of Hygiene and Tropical Medicine It will be of interest to epidemiologists public health researchers policy makers veterinary scientists medical statisticians and infectious disease researchers

*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

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**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

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Mathematical and Computational Modeling Roderick Melnik, 2015-05-21 Mathematical and Computational Modeling Illustrates the application of mathematical and computational modeling in a variety of disciplines With an emphasis on the interdisciplinary nature of mathematical and computational modeling Mathematical and Computational Modeling With Applications in the Natural and Social Sciences Engineering and the Arts features chapters written by well known international experts in these fields and presents readers with a host of state of the art achievements in the development of mathematical modeling and computational experiment methodology The book is a valuable guide to the methods ideas and tools of applied and computational mathematics as they apply to other disciplines such as the natural and social sciences engineering and technology The book also features Rigorous mathematical procedures and applications as the driving force behind mathematical innovation and discovery Numerous examples from a wide range of disciplines to emphasize the multidisciplinary application and universality of applied mathematics and mathematical modeling Original results on both fundamental theoretical and applied developments in diverse areas of human knowledge Discussions that promote interdisciplinary interactions between mathematicians scientists and engineers Mathematical and Computational Modeling With Applications in the Natural and Social Sciences Engineering and the Arts is an ideal resource for professionals in various areas of mathematical and statistical sciences modeling and simulation physics computer science engineering biology and chemistry and industrial and computational engineering The book also serves as an excellent textbook for graduate courses in mathematical modeling applied mathematics numerical methods operations research and optimization

*Encyclopedia of Theoretical Ecology* Dr. Alan Hastings, Dr. Louis Gross, 2012-05-31 This major reference is an overview of the current state of theoretical ecology through a series of topical entries centered on both ecological and statistical themes Coverage ranges across scales from the physiological to populations landscapes and ecosystems Entries provide an introduction to broad fields such as Applied Ecology Behavioral Ecology Computational Ecology Ecosystem Ecology



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*13th International Conference on Theory and Application of Fuzzy Systems and Soft Computing — ICAFS-2018* Rafik A. Aliev, Janusz Kacprzyk, Witold Pedrycz, Mo. Jamshidi, Fahreddin M. Sadikoglu, 2018-12-28 This book presents the proceedings of the 13th International Conference on Application of Fuzzy Systems and Soft Computing ICAFS 2018 held in Warsaw Poland on August 27 28 2018 It includes contributions from diverse areas of soft computing such as uncertain computation Z information processing neuro fuzzy approaches evolutionary computing and others The topics of the papers include theory of uncertainty computation theory and application of soft computing decision theory with imperfect information neuro fuzzy technology image processing with soft computing intelligent control machine learning fuzzy logic in data analytics and data mining evolutionary computing chaotic systems soft computing in business economics and finance fuzzy logic and soft computing in the earth sciences fuzzy logic and soft computing in engineering soft computing in medicine biomedical engineering and the pharmaceutical sciences and probabilistic and statistical reasoning in the social and educational sciences The book covers new ideas from theoretical and practical perspectives in economics business industry education medicine the earth sciences and other fields In addition to promoting the development and application of soft computing methods in various real life fields it offers a useful guide for academics practitioners and graduates in fuzzy logic and soft computing fields

*Biosurveillance and Biosecurity* Daniel Zeng, Hsinchun Chen, Henry Rolka, William B. Lober, 2008-11-13 This book constitutes the refereed proceedings of the International Workshop on Biosurveillance and Biosecurity BioSecure 2008 held in Raleigh NC USA in December 2008 The 18 revised full papers presented together with one invited paper were carefully reviewed and selected from numerous submissions The papers are organized in topical sections on informatics infrastructure and policy considerations network based data analytics biosurveillance models and outbreak detection model assessment and case studies environmental biosurveillance and case studies

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