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Mathematical and Statistical Estimation Approaches in Epidemiology



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Mathematical And Statistical Estimation Approaches In Epidemiology

**Tom Brughmans, Barbara J.
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Mathematical and Statistical Estimation Approaches in Epidemiology Gerardo Chowell, James M. Hayman, Luís M. A. Bettencourt, Carlos Castillo-Chavez, 2009-06-06 Mathematical and Statistical Estimation Approaches in Epidemiology compiles theoretical and practical contributions of experts in the analysis of infectious disease epidemics in a single volume. Recent collections have focused in the analyses and simulation of deterministic and stochastic models whose aim is to identify and rank epidemiological and social mechanisms responsible for disease transmission. The contributions in this volume focus on the connections between models and disease data with emphasis on the application of mathematical and statistical approaches that quantify model and data uncertainty. The book is aimed at public health experts, applied mathematicians and scientists in the life and social sciences, particularly graduate or advanced undergraduate students who are interested not only in building and connecting models to data but also in applying and developing methods that quantify uncertainty in the context of infectious diseases. Chowell and Brauer open this volume with an overview of the classical disease transmission models of Kermack-McKendrick including extensions that account for increased levels of epidemiological heterogeneity. Their theoretical tour is followed by the introduction of a simple methodology for the estimation of the basic reproduction number R . The use of this methodology is illustrated using regional data for 1918-1919 and 1968 in influenza pandemics.

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. Chapter 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 Modeling and Validation in Physiology* Jerry J. Batzel, Mostafa Bachar, Franz Kappel, 2012-12-14 This volume synthesizes theoretical and practical aspects of both the mathematical and life science viewpoints needed for modeling of the cardiovascular respiratory system specifically and physiological systems generally Theoretical points include model design model complexity and validation in the light of available data as well as control theory approaches to feedback delay and Kalman filter applications to parameter identification State of the art approaches using parameter sensitivity are discussed for enhancing model identifiability through joint analysis of model structure and data Practical examples illustrate model development at various levels of complexity based on given physiological information The sensitivity based approaches for examining model identifiability are illustrated by means of specific modeling examples The themes presented address the current problem of patient specific model adaptation in the clinical setting where data is typically limited **Biomat 2010 - International Symposium On Mathematical And Computational Biology** Rubem P Mondaini, 2011-03-11 This volume contains the selected contributed papers of the BIOMAT 2010 International Symposium which has been organized as a joint conference with the 2010 Annual Meeting of the Society for Mathematical Biology www.smb.org by invitation of the Director Board of this Society The works presented at Tutorial and Plenary Sessions by expert keynote speakers have been also included This book contains state of the art articles on special research topics on mathematical biology biological physics and mathematical modelling of biosystems comprehensive reviews on interdisciplinary areas written by prominent leaders of scientific research groups The treatment is both pedagogical and sufficiently advanced to enhance future scientific research **The Oxford Handbook of Archaeological Network Research** Tom Brughmans, Barbara J. Mills, Jessica Munson, Matthew A. Peeples, 2024 This Handbook is the first authoritative reference work for archaeological network research featuring current topical trends and covering the archaeological application of network methods and theories Mathematics of Public Health Jummy David, Jianhong Wu, 2023-12-30 This volume addresses SDG 3 from a mathematical standpoint sharing novel perspectives of existing communicable disease modelling technologies of the next generation and disseminating new developments in modelling methodologies and simulation techniques These methodologies are important for training and research in communicable diseases and can be applied to other threats to human health The contributions contained in this collection book cover a range of modelling techniques that have been and may be used to support decision making on critical health related issues such as Resource allocation Impact of climate change on communicable diseases Interaction of human behaviour change and disease spread Disease outbreak trajectories projection Public health interventions evaluation Preparedness and mitigation of emerging and re emerging infectious diseases outbreaks Development of vaccines and decisions around vaccine allocation and optimization The diseases and public health issues in this volume include but are not

limited to COVID 19 HIV Influenza antimicrobial resistance AMR the opioid epidemic Lyme Disease Zika and Malaria In addition this volume compares compartmental models agent based models machine learning and network Readers have an opportunity to learn from the next generation perspective of evolving methodologies and algorithms in modelling infectious diseases the mathematics behind them the motivation for them and some applications to supporting critical decisions on prevention and control of communicable diseases This volume was compiled from the weekly seminar series organized by the Mathematics for Public Health MfPH Next Generation Network This network brings together the next generation of modellers from across Canada and the world developing the latest mathematical models modeling methodologies and analytical and simulation tools for communicable diseases of global public health concerns The weekly seminar series provides a unique forum for this network and their invited guest speakers to share their perspectives on the status and future directions of mathematics of public health

Advanced Computing in Industrial Mathematics Ivan Georgiev, Hristo Kostadinov, Elena Lilkova, 2023-01-18 This book gathers the peer reviewed proceedings of the 15th Annual Meeting of the Bulgarian Section of the Society for Industrial and Applied Mathematics BGSIAM 20 held in Sofia Bulgaria The general theme of BGSIAM 20 was industrial and applied mathematics with particular focus on mathematical physics numerical analysis high performance computing optimization and control mathematical biology stochastic modeling machine learning digitization and imaging advanced computing in environmental and biomedical and engineering applications

Mathematical and Experimental Modeling of Physical and Biological Processes H.T. Banks, H.T. Tran, 2009-01-12 Through several case study problems from industrial and scientific research laboratory applications Mathematical and Experimental Modeling of Physical and Biological Processes provides students with a fundamental understanding of how mathematics is applied to problems in science and engineering For each case study problem the authors discuss why a model is needed and what goals can be achieved with the model Exploring what mathematics can reveal about applications the book focuses on the design of appropriate experiments to validate the development of mathematical models It guides students through the modeling process from empirical observations and formalization of properties to model analysis and interpretation of results The authors also describe the hardware and software tools used to design the experiments so faculty students can duplicate them Integrating real world applications into the traditional mathematics curriculum this textbook deals with the formulation and analysis of mathematical models in science and engineering It gives students an appreciation of the use of mathematics and encourages them to further study the applied topics Real experimental data for projects can be downloaded from CRC Press Online

[Mathematical Tools for Understanding Infectious Disease Dynamics](#) Odo Diekmann, Hans Heesterbeek, Tom Britton, 2012-11-18 Mathematical modeling is critical to our understanding of how infectious diseases spread at the individual and population levels This book gives readers the necessary skills to correctly formulate and analyze mathematical models in infectious disease epidemiology and is the first treatment of the subject to integrate deterministic and stochastic models and

methods Mathematical Tools for Understanding Infectious Disease Dynamics fully explains how to translate biological assumptions into mathematics to construct useful and consistent models and how to use the biological interpretation and mathematical reasoning to analyze these models It shows how to relate models to data through statistical inference and how to gain important insights into infectious disease dynamics by translating mathematical results back to biology This comprehensive and accessible book also features numerous detailed exercises throughout full elaborations to all exercises are provided Covers the latest research in mathematical modeling of infectious disease epidemiology Integrates deterministic and stochastic approaches Teaches skills in model construction analysis inference and interpretation Features numerous exercises and their detailed elaborations Motivated by real world applications throughout Control and Optimization with PDE Constraints Kristian Bredies, Christian Clason, Karl Kunisch, Gregory Winckel, 2013-06-12 Many mathematical models of physical biological and social systems involve partial differential equations PDEs The desire to understand and influence these systems naturally leads to considering problems of control and optimization This book presents important topics in the areas of control of PDEs and of PDE constrained optimization covering the full spectrum from analysis to numerical realization and applications Leading scientists address current topics such as non smooth optimization Hamilton Jacobi Bellmann equations issues in optimization and control of stochastic partial differential equations reduced order models and domain decomposition discretization error estimates for optimal control problems and control of quantum dynamical systems These contributions originate from the International Workshop on Control and Optimization of PDEs in Mariatrust in October 2011 This book is an excellent resource for students and researchers in control or optimization of differential equations Readers interested in theory or in numerical algorithms will find this book equally useful

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