Spatial Deterministic Epidemics

Linda Rass
John Radcliffe

Spatial Deterministic Epidemics

D. Bainov

Spatial Deterministic Epidemics:

   Spatial Deterministic Epidemics Linda Rass,John Radcliffe,2003 Rass and Radcliffe draw together in one volume mathematical theory which until now has existed only in a large number of papers scattered over many journals They use rigorous analytic methods to determine the behavior of spatial deterministic models of certain multi type epidemic processes where infection is spread by means of contact distribution The results obtained include the existence of traveling wave solutions the asymptotic speed of propagation and the spatial final size For researchers and graduate students working in mathematical methods in biology Annotation c 2003 Book News Inc Portland OR booknews com   **Spatial Dynamics and Pattern Formation in Biological Populations** Ranjit Kumar Upadhyay,Satteluri R. K. Iyengar,2021-02-24 The book provides an introduction to deterministic and some stochastic modeling of spatiotemporal phenomena in ecology epidemiology and neural systems A survey of the classical models in the fields with up to date applications is given The book begins with detailed description of how spatial dynamics diffusive processes influence the dynamics of biological populations These processes play a key role in understanding the outbreak and spread of pandemics which help us in designing the control strategies from the public health perspective A brief discussion on the functional mechanism of the brain single neuron models and network level with classical models of neuronal dynamics in space and time is given Relevant phenomena and existing modeling approaches in ecology epidemiology and neuroscience are introduced which provide examples of pattern formation in these models The analysis of patterns enables us to study the dynamics of macroscopic and microscopic behaviour of underlying systems and travelling wave type patterns observed in dispersive systems Moving on to virus dynamics authors present a detailed analysis of different types models of infectious diseases including two models for influenza five models for Ebola virus and seven models for Zika virus with diffusion and time delay A Chapter is devoted for the study of Brain Dynamics Neural systems in space and time Significant advances made in modeling the reaction diffusion systems are presented and spatiotemporal patterning in the systems is reviewed Development of appropriate mathematical models and detailed analysis such as linear stability weakly nonlinear analysis bifurcation analysis control theory numerical simulation are presented Key Features Covers the fundamental concepts and mathematical skills required to analyse reaction diffusion models for biological populations Concepts are introduced in such a way that readers with a basic knowledge of differential equations and numerical methods can understand the analysis The results are also illustrated with figures Focuses on mathematical modeling and numerical simulations using basic conceptual and classic models of population dynamics Virus and Brain dynamics Covers wide range of models using spatial and non spatial approaches Covers single two and multispecies reaction diffusion models from ecology and models from bio chemistry Models are analysed for stability of equilibrium points Turing instability Hopf bifurcation and pattern formations Uses Mathematica for problem solving and MATLAB for pattern formations Contains solved Examples and Problems in Exercises The Book is suitable for advanced

undergraduate graduate and research students For those who are working in the above areas it provides information from most of the recent works The text presents all the fundamental concepts and mathematical skills needed to build models and perform analyses **Epidemic Models** Denis Mollison,1995-07-13 Surveys the state of epidemic modelling resulting from the NATO Advanced Workshop at the Newton Institute in 1993 **Deterministic and Stochastic Discrete-time Epidemics with Spatial Considerations** Amy Marie Blackstock Burgin,1998 *Modelling Biological Populations in Space and Time* Eric Renshaw,1993-08-26 This volume develops a unifying approach to population studies emphasising the interplay between modelling and experimentation Throughout mathematicians and biologists are provided with a framework within which population dynamics can be fully explored and understood Aspects of population dynamics covered include birth death and logistic processes competition and predator prey relationships chaos reaction time delays fluctuating environments spatial systems velocities of spread epidemics and spatial branching structures Both deterministic and stochastic models are considered Whilst the more theoretically orientated sections will appeal to mathematical biologists the material is presented so that readers with little mathematical expertise can bypass these without losing the main flow of the text *Encyclopedia of Epidemiologic Methods* Mitchell H. Gail,Jacques Benichou,2000-11-02 Featuring articles from the prestigious Encyclopedia of Biostatistics many of which have been revised and updated to include recent developments the Encyclopedia of Epidemiologic Methods also includes newly commissioned articles reflecting the latest thinking in Cancer Registries Birth Defect Registries Meta Analysis of Epidemiologic Studies Epidemiology Overview Sample Size Sex Ratio at Birth Software Design and Analysis Featuring contributions from leading experts in academia government and industry the Encyclopedia of Epidemiologic Methods has been designed to complement existing texts on the subject by providing further extensive up to date coverage of specialised topics and by introducing the reader to the research literature Offering a wealth of information in a single resource the Encyclopedia of Epidemiologic Methods Offers an excellent introduction to a vast array of specialised topics Includes in depth coverage of the statistical underpinnings of contemporary epidemiologic methods Provides concise definitions and introductions to numerous concepts found in the current literature Uses extensive cross references helping to facilitate further research and enabling the reader to locate definitions and related concepts In addition to featuring extensive articles in the areas of descriptive and analytic epidemiology the Encyclopedia also provides the reader with articles on case control design and offers substantial coverage of allied statistical methods **Proceedings of the seventh International Colloquium on Differential Equations** D. Bainov,2020-05-18 No detailed description available for Proceedings of the seventh International Colloquium on Differential Equations Representations of Algebraic Groups Jens Carsten Jantzen,2003-01-01 Now back in print by the AMS this is a significantly revised edition of a book originally published in 1987 by Academic Press This book gives the reader an introduction to the theory of algebraic representations of reductive algebraic groups To develop appropriate techniques the first part of the book is an introduction

to the general theory of representations of algebraic group schemes Here the author describes important basic notions induction functors cohomology quotients Frobenius kernels and reduction mod p among others The second part of the book is devoted to the representation theory of reductive algebraic groups It includes topics such as the description of simple modules vanishing theorems the Borel Bott Weil theorem and Weyl s character formula andSchubert schemes and line bundles on them For this revised edition the author added nearly 150 pages of new material describing some later developments among them Schur algebras Lusztig s conjecture and Kazhdan Lusztig polynomials tilting modules and representations of quantum groups He also made major revisions to parts of the old text Jantzen s book continues to be the ultimate source of information on representations of algebraic groups in finite characteristics It is suitable forgraduate students and research mathematicians interested in algebraic groups and their representations   <u>Nonlinear Dynamics and Evolution Equations</u> Hermann Brunner,Xiao-Qiang Zhao,Xingfu Zou,2006 The papers in this volume reflect a broad spectrum of current research activities on the theory and applications of nonlinear dynamics and evolution equations They are based on lectures given during the International Conference on Nonlinear Dynamics and Evolution Equations at Memorial University of Newfoundland St John s NL Canada July 6 10 2004 This volume contains thirteen invited and refereed papers Nine of these are survey papers introducing the reader to anddescribing the current state of the art in major areas of dynamical systems ordinary functional and partial differential equations and applications of such equations in the mathematical modelling of various biological and physical phenomena These papers are complemented by four research papers thatexamine particular problems in the theory and applications of dynamical systems Information for our distributors Titles in this series are copublished with the Fields Institute for Research in Mathematical Sciences Toronto Ontario Canada
    Mathematics in Population Biology Horst R. Thieme,2018-06-05 The formulation analysis and re evaluation of mathematical models in population biology has become a valuable source of insight to mathematicians and biologists alike This book presents an overview and selected sample of these results and ideas organized by biological theme rather than mathematical concept with an emphasis on helping the reader develop appropriate modeling skills through use of well chosen and varied examples Part I starts with unstructured single species population models particularly in the framework of continuous time models then adding the most rudimentary stage structure with variable stage duration The theme of stage structure in an age dependent context is developed in Part II covering demographic concepts such as life expectation and variance of life length and their dynamic consequences In Part III the author considers the dynamic interplay of host and parasite populations i e the epidemics and endemics of infectious diseases The theme of stage structure continues here in the analysis of different stages of infection and of age structure that is instrumental in optimizing vaccination strategies Each section concludes with exercises some with solutions and suggestions for further study The level of mathematics is relatively modest a toolbox provides a summary of required results in differential equations integration and integral equations In

addition a selection of Maple worksheets is provided The book provides an authoritative tour through a dazzling ensemble of topics and is both an ideal introduction to the subject and reference for researchers   Large Deviations for Stochastic Processes Jin Feng,Thomas G. Kurtz,2015-02-03 The book is devoted to the results on large deviations for a class of stochastic processes Following an introduction and overview the material is presented in three parts Part 1 gives necessary and sufficient conditions for exponential tightness that are analogous to conditions for tightness in the theory of weak convergence Part 2 focuses on Markov processes in metric spaces For a sequence of such processes convergence of Fleming s logarithmically transformed nonlinear semigroups is shown to imply the large deviation principle in a manner analogous to the use of convergence of linear semigroups in weak convergence Viscosity solution methods provide applicable conditions for the necessary convergence Part 3 discusses methods for verifying the comparison principle for viscosity solutions and applies the general theory to obtain a variety of new and known results on large deviations for Markov processes In examples concerning infinite dimensional state spaces new comparison principles are derived for a class of Hamilton Jacobi equations in Hilbert spaces and in spaces of probability measures   **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   **Mathematics of Public Health** V. Kumar Murty,Jianhong Wu,2022-02-08 Curated by the Fields Institute for Research in Mathematical Sciences from their COVID 19 Math Modelling Seminars this first in a series of volumes on the mathematics of public health allows readers to access the dominant ideas and techniques being used in this area while indicating problems for further research This work brings together experts in mathematical modelling from across Canada and the world presenting the latest modelling methods as they relate to the COVID 19 pandemic A primary aim of this book is to make the content accessible so that researchers share the core methods that may be applied elsewhere The mathematical theories and technologies in this book can be used to support decision makers on critical issues such as projecting outbreak trajectories evaluating public health interventions for infection prevention and control developing optimal strategies to return to a new normal and designing vaccine candidates and informing mass immunization program

Topical coverage includes basic susceptible exposed infectious recovered SEIR modelling framework modified and applied to COVID 19 disease transmission dynamics nearcasting and forecasting for needs of critical medical resources including personal protective equipment PPE predicting COVID 19 mortality evaluating effectiveness of convalescent plasma treatment and the logistic implementation challenges estimating impact of delays in contact tracing quantifying heterogeneity in contact mixing and its evaluation with social distancing modelling point of care diagnostics of COVID 19 and understanding non reporting and underestimation Further readers will have the opportunity to learn about current modelling methodologies and technologies for emerging infectious disease outbreaks pandemic mitigation rapid response and the mathematics behind them The volume will help the general audience and experts to better understand the important role that mathematics has been playing during this on going crisis in supporting critical decision making by governments and public health agencies

Mathematical Theories of Populations Frank Hoppensteadt,1975-12-01 A basic model in population age structure is studied and then applied and extended to several population phenomena   Mathematical Understanding of Infectious Disease Dynamics Stefan Ma,2009 The Institute for Mathematical Sciences at the National University of Singapore hosted a research program on Mathematical Modeling of Infectious Diseases Dynamics and Control from 15 August to 9 October 2005 As part of the program tutorials for graduate students and junior researchers were given by leading experts in the field

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 therapy 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   **Markov Processes, Semigroups, and Generators** Vasiliĭ Nikitich Kolokolʹt︠s︡ov,Vasiliĭ Nikitich Kolokolʹtsov,2011 This work offers a highly useful well developed reference on Markov processes the universal model for random processes and evolutions The wide range of applications in exact sciences as well as in other areas like social studies require a volume that offers a refresher on fundamentals before conveying the Markov processes and examples for   Nonlinear Markov Processes and Kinetic Equations Vassili N. Kolokoltsov,2010-07-15 A nonlinear Markov evolution is a dynamical system generated by a measure valued ordinary differential equation with the specific feature of preserving

positivity This feature distinguishes it from general vector valued differential equations and yields a natural link with probability both in interpreting results and in the tools of analysis This brilliant book the first devoted to the area develops this interplay between probability and analysis After systematically presenting both analytic and probabilistic techniques the author uses probability to obtain deeper insight into nonlinear dynamics and analysis to tackle difficult problems in the description of random and chaotic behavior The book addresses the most fundamental questions in the theory of nonlinear Markov processes existence uniqueness constructions approximation schemes regularity law of large numbers and probabilistic interpretations Its careful exposition makes the book accessible to researchers and graduate students in stochastic and functional analysis with applications to mathematical physics and systems biology **Branching Processes** C.C. Heyde,2012-12-06 This volume presents the edited proceedings of the First World Congress on Branching Processes The contributions present new research and surveys of the current research activity in this field As a result all those undertaking research in the subject will find this a timely and high quality volume to have on their shelves *Many Agent Games in Socio-economic Systems: Corruption, Inspection, Coalition Building, Network Growth, Security* Vassili N. Kolokoltsov,Oleg A. Malafeyev,2019-03-30 There has been an increase in attention toward systems involving large numbers of small players giving rise to the theory of mean field games mean field type control and nonlinear Markov games Exhibiting various real world problems involving major and minor agents this book presents a systematic continuous space approximation approach for mean field interacting agents models and mean field games models After describing Markov chain methodology and a modeling of mean field interacting systems the text presents various structural conditions on the chain to yield respective socio economic models focusing on migration models via binary interactions The specific applications are wide ranging including inspection and corruption cyber security counterterrorism coalition building and network growth minority games and investment policies and optimal allocation making this book relevant to a wide audience of applied mathematicians interested in operations research computer science national security economics and finance

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