Lecture Notes in Mathematics

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# Mathematical Epidemiology

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# Mathematical Epidemiology Issue 1945 Mathematical Epidemiology Issue 1945

**Marc Bernot,Vicent Caselles,Jean-Michel Morel**

**Mathematical Epidemiology Issue 1945 Mathematical Epidemiology Issue 1945:**

**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 Game-Theoretic Modelling: Third Edition** Mike Mesterton-Gibbons,2019-07-05 This book introduces game theory and its applications from an applied mathematician s perspective systematically developing tools and concepts for game theoretic modelling in the life and social sciences Filled with down to earth examples of strategic behavior in humans and other animals the book presents a unified account of the central ideas of both classical and evolutionary game theory Unlike many books on game theory which focus on mathematical and recreational aspects of the subject this book emphasizes using games to answer questions of current scientific interest In the present third edition the author has added substantial new material on evolutionarily stable strategies and their use in behavioral ecology The only prerequisites are calculus and some exposure to matrix algebra probability and differential equations **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 Introduction to Mathematical Methods in Population Theory Jacek Banasiak,2024-12-20 This textbook provides an introduction to the mathematical methods used to analyse deterministic models in life sciences including population dynamics epidemiology and ecology The book covers both discrete and continuous models The presentation emphasises the solvability of the equations appearing in the mathematical modelling of natural phenomena and in the absence of solutions the analysis of their relevant properties Of particular interest are methods that allow for determining the long term behaviour of solutions Thus the book covers a range of techniques from the classical Lyapunov theorems and positivity methods based on the Perron Frobenius theorem to the more modern monotone dynamical system approach The book offers a comprehensive presentation of the Lyapunov theory including the inverse Lyapunov theorems with applications to perturbed equations and Vidyasagar theorem Furthermore it provides a coherent presentation of the foundations of the theory of monotone dynamical systems with its applications to epidemiological models Another feature of the book is the derivation of the McKendrick von Foerster equation from the discrete Leslie model and the analysis of the long term behaviour of its solutions Designed for upper undergraduate courses and beyond this textbook is written for students and researchers looking to master the mathematics of the tools commonly used to analyse life science models It therefore goes somewhat deeper into mathematics than typical books at this level but should be accessible to anyone with a good command of calculus with elements of real and complex analysis and linear algebra the necessary concepts are collected in the appendices **Modules Over Operads and Functors** Benoit Fresse,2009-03-26 The notion of an operad supplies both a conceptual and effective device to handle a variety of algebraic structures in various situations Operads were introduced 40 years ago in algebraic topology in order to model the structure of iterated loop spaces Since then operads have been used fruitfully in many fields of mathematics and physics This monograph begins with a review of the basis of operad theory The main purpose is to study structures of modules over operads as a new device to model functors between categories of algebras as effectively as operads model categories of algebras Large Random Matrices: Lectures on Macroscopic Asymptotics Alice Guionnet,2009-04-20 Random matrix theory has developed in the last few years in connection with various fields of mathematics and physics These notes emphasize the relation with the problem of enumerating complicated graphs and the related large deviations questions Such questions are also closely related with the asymptotic distribution of matrices which is naturally defined in the context of free probability and operator algebra The material of this volume is based on a series of nine lectures given at the Saint Flour Probability Summer School 2006 Lectures were also given by Maury Bramson and Steffen Lauritzen *Local Lyapunov Exponents* Wolfgang Siegert,2009 Establishing a new concept of local Lyapunov exponents the author brings together two separate theories namely Lyapunov exponents and the theory of large deviations Specifically a linear differential system is considered which is controlled by a stochastic process that during a suitable noise intensity dependent time is trapped near one of its so called metastable states The local Lyapunov exponent is then introduced as the exponential growth rate of the linear system on this time scale Unlike classical Lyapunov exponents which involve a limit as time increases to infinity in a fixed system here the system itself changes as the noise intensity converges too A Minicourse on Stochastic Partial Differential Equations Robert C. Dalang,2009 This title contains lectures that offer an introduction to modern topics in stochastic partial differential equations and bring together experts whose research is centered on the interface between Gaussian analysis stochastic analysis and stochastic PDEs Proceedings of the Future Technologies Conference (FTC) 2021, Volume 2 Kohei Arai,2021-11-03 This book covers a wide range of important topics including but not limited to Technology Trends Computing Artificial Intelligence Machine Vision Communication Security e Learning and Ambient Intelligence and their applications to the real world The sixth Future Technologies Conference 2021 was organized virtually and received a total of 531 submissions from academic pioneering researchers scientists industrial engineers and students from all over the world After a double blind peer review process 191 submissions have been selected to be included in these proceedings One of the meaningful and valuable dimensions of this conference is the way it brings together a large group of technology geniuses in one venue to not only present breakthrough research in future technologies but also to promote discussions and debate of relevant issues challenges opportunities and research findings We hope that readers find the book interesting exciting and inspiring it provides the state of the art intelligent methods and techniques for solving real world problems along with a vision of the future research *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 *Applications of Evolutionary Computation* Pedro A. Castillo,Juan Luis Jiménez Laredo,Francisco Fernández de Vega,2020-04-09 This book constitutes the refereed proceedings of the 23rd European Conference on Applications of Evolutionary Computation EvoApplications 2020 held as part of Evo 2020 in Seville Spain in April 2020 co located with the Evo 2020 events EuroGP EvoMUSART and EvoCOP The 44 full papers presented in this book were carefully reviewed and selected from 62 submissions The papers cover a wide spectrum of topics ranging from applications of bio inspired techniques on social networks evolutionary computation in digital healthcare and personalized medicine soft computing applied to games applications of deep bioinspired algorithms parallel and distributed systems and evolutionary machine learning A Nonlinear Transfer Technique for Renorming Aníbal Moltó,2009 Abstract topological tools from generalized metric spaces are applied in this volume to the construction of locally uniformly rotund norms on Banach spaces The book offers new techniques for renorming problems all of them based on a network analysis for the topologies involved inside the problem Maps from a normed space X to a metric space Y which provide locally uniformly rotund renormings on X are studied and a new frame for the theory is obtained with interplay between functional analysis optimization and topology using subdifferentials of Lipschitz functions and covering methods of metrization theory Any one to one operator T from a reflexive space X into c0 T satisfies the authors conditions transferring the norm to X Nevertheless the authors maps can be far from linear for instance the duality map from X to X gives a non linear example when the norm in X is Fr chet differentiable This volume will be interesting for the broad spectrum of specialists working in Banach space theory and for researchers in infinite dimensional functional analysis Optimal Transportation Networks Marc Bernot,Vicent Caselles,Jean-Michel Morel,2009 The transportation problem can be formalized as the problem of finding the optimal way to transport a given measure into another with the same mass In contrast to the Monge Kantorovitch problem recent approaches model the branched structure of such supply networks as minima of an energy functional whose essential feature is to favour wide roads Such a branched structure is observable in ground transportation networks in draining and irrigation systems in electrical power supply systems and in natural counterparts such as blood vessels or the branches of trees These lectures provide mathematical proof of several existence structure and regularity properties empirically observed in transportation networks The link with previous discrete physical models of irrigation and erosion models in geomorphology and with discrete telecommunication and transportation models is discussed It will be mathematically proven that the majority fit in the simple model sketched in this volume **Quantum Potential Theory** Philippe Biane,Luc Bouten,Fabio Cipriani,Norio Konno,Quanhua Xu,2008-09-23 This book offers the revised and completed notes of lectures given at the 2007 conference Quantum Potential Theory Structures and Applications to Physics These lectures provide an introduction to the theory and discuss various applications **Geometric Analysis and PDEs** Matthew J. Gursky,Ermanno Lanconelli,Andrea Malchiodi,Gabriella Tarantello,Xu-Jia Wang,Paul C. Yang,2009-07-31 This volume contains lecture notes on key topics in geometric analysis a growing mathematical subject which uses analytical techniques mostly of partial differential equations to treat problems in differential geometry and mathematical physics **Boundary Value Problems and Markov Processes** Kazuaki Taira,2009-06-17 This is a thorough and accessible exposition on the functional analytic approach to the problem of construction of Markov processes with Ventcel boundary conditions in probability theory It presents new developments in the theory of singular integrals Sobolev Gradients and Differential Equations john neuberger,2009-11-10 A Sobolev gradient of a real valued functional on a Hilbert space is a gradient of that functional taken relative to an underlying Sobolev norm This book shows how descent methods using such gradients allow a unified treatment of a wide variety of problems in differential equations For discrete versions of partial differential equations corresponding Sobolev gradients are seen to be vastly more efficient than ordinary gradients In fact descent methods with these gradients generally scale linearly with the number of grid points in sharp contrast with the use of ordinary gradients Aside from the first edition of this work this is the only known account of Sobolev gradients in book form Most of the applications in this book have emerged since the first edition was published some twelve years ago What remains of the first edition has been extensively revised There are a number of plots of results from calculations and a sample MatLab code is included for a simple problem Those working through a fair portion of the material have in the past been able to use the theory on their own applications and also gain an appreciation of the possibility of a rather comprehensive point of view on the subject of partial differential equations *Computational Approach to Riemann Surfaces* Alexander I. Bobenko,2011-02-12 This volume offers a well structured overview of existent computational approaches to Riemann surfaces and those currently in development The authors of the contributions represent the groups providing publically available numerical codes in this field Thus this volume illustrates which software tools are available and how they can be used in practice In addition examples for solutions to partial differential equations and in surface theory are presented The intended audience of this book is twofold It can be used as a textbook for a graduate course in numerics of Riemann surfaces in which case the standard undergraduate background i e calculus and linear algebra is required In particular no knowledge of the theory of Riemann surfaces is expected the necessary background in this theory is contained in the Introduction chapter At the same time this book is also intended for specialists in geometry and mathematical physics applying the theory of Riemann surfaces in their research It is the first book on numerics of Riemann surfaces that reflects the progress made in this field during the last decade and it contains original results There are a growing number of applications that involve the evaluation of concrete characteristics of models analytically described in terms of Riemann surfaces Many problem settings and computations in this volume are motivated by such concrete applications in geometry and mathematical physics **Applied Mathematical Ecology** Simon A. Levin,Thomas G. Hallam,Louis J. Gross,2012-12-06 The Second Autumn Course on Mathematical Ecology was held at the Intern ational Centre for Theoretical Physics in Trieste Italy in November and December of 1986 During the four year period that had elapsed since the First Autumn Course on Mathematical Ecology sufficient progress had been made in applied mathemat ical ecology to merit tilting the balance maintained between theoretical aspects and applications in the 1982 Course toward applications The course format while similar to that of the first Autumn Course on Mathematical Ecology consequently focused upon applications of mathematical ecology Current areas of application are almost as diverse as the spectrum covered by ecology The topiys of this book reflect this diversity and were chosen because of perceived interest and utility to developing countries Topical lectures began with foundational material mostly derived from Math ematical Ecology An Introduction a compilation of the lectures of the 1982 course published by Springer Verlag in this series Volume 17 and when possible progressed to the frontiers of research In addition to the course lectures workshops were arranged for small groups to supplement and enhance the learning experience Other perspectives were provided through presentations by course participants and speakers at the associated Research Conference Many of the research papers are in a companion volume Mathematical Ecology Proceedings Trieste 1986 published by World Scientific Press in 1988 This book is structured primarily by application area Part II provides an introduction to mathematical and statistical applications in resource management **Polyharmonic Boundary Value Problems** Filippo Gazzola,Hans-Christoph Grunau,Guido Sweers,2010-06-03 This accessible monograph covers higher order linear and nonlinear elliptic boundary value problems in bounded domains mainly with the biharmonic or poly harmonic operator as leading principal part It provides rapid access to

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