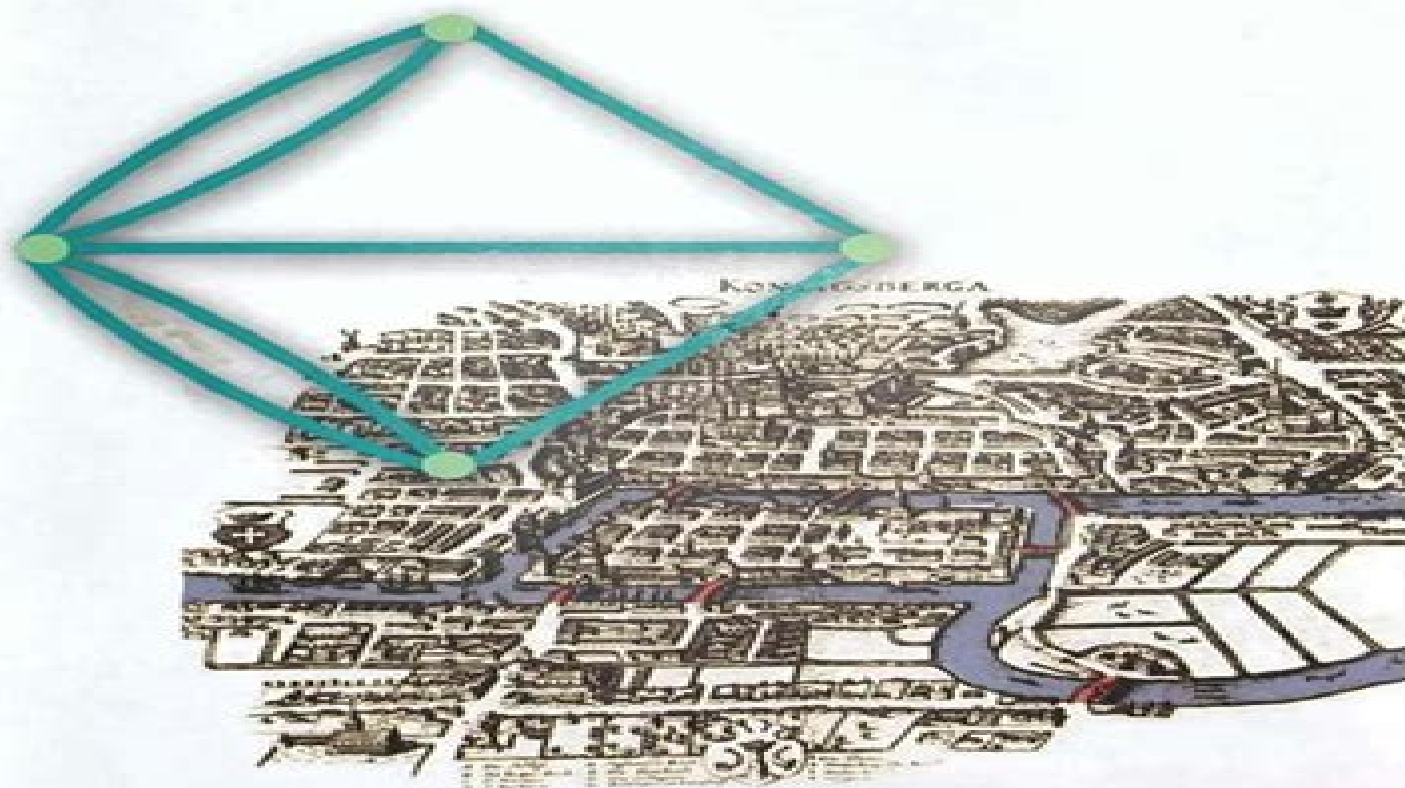


Discrete Mathematics and Discrete Models



KIMMO ERIKSSON HILLEVI GAVEL

Discrete Models

Paul DuChateau, David W. Zachmann



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Discrete Models Donald Greenspan, 1973 *Modeling Tumor Vasculature* Trachette L. Jackson, 2011-11-23 To profoundly understand biology and harness its intricacies for human benefit and the mitigation of human harm requires cross disciplinary approaches that incorporate sophisticated computational and mathematical modeling techniques These integrative strategies are essential to achieve rapid and significant progress in issues in health and disease which span molecular cellular and tissue levels The use of mathematical models to describe various aspects of tumor growth has a very long history dating back over six decades Recently however experimental and computational advances have improved our in the understanding of how processes act at multiple scales to mediate the development of tumor vasculature and drive the advancement of cancer This book will showcase the development and utilization of new computational and mathematical approaches to address multiscale challenges associated with tumor vascular development In Part I Cell Signaling and Molecular Aspects of Tumor Blood Vessel Formation it will be come clear that mathematical modeling can help to biochemically and biomechanically phenotype one of the most important cell types involved in cancer progression vascular endothelial cells When subverted by the tumor modulated environment vascular endothelial cells form a new vascular supply capable of nourishing and translocating cancer cells to other tissues The models in Part I illustrate the importance of quantitative approaches for gaining a deeper understanding of how normal and abnormal aspects of signal integration culminate in the cell proliferation migration and survival decisions that result in pathological tumor angiogenesis The focus of Part II is the angiogenesis cascade and all of its complexities Successful angiogenesis is mediated by the intricate interplay between biochemical and biomechanical mechanisms including cell cell and cell matrix interactions cell surface receptor binding and intracellular signal transduction A major challenge facing the cancer research community is to integrate known information in a way that improves our understanding of the principal underpinnings driving tumor angiogenesis and that will advance efforts aimed at the development of new therapies for treating cancer The chapters in Part II will highlight several mathematical and computational approaches for that can potentially address this challenge While the first two thirds of the book s chapters demonstrate how important insights can be gained by studying cell signaling and vascular morphology and function the series of chapters in Part III Whole Organ Modeling of Tumor Growth and Vasculature will integrate vasculature development with tumor growth dynamics These two processes strongly depend on one another in ways that can only be theoretically investigated by biophysical approaches that cut across several levels of biological organization and describe both the tumor and the developing vasculature as they co evolve The purpose of this edited volume is not to provide a comprehensive review of all modeling efforts that address tumor vascular modeling instead a variety of interesting and innovative mathematical modeling approaches for understanding the development and effects oftumor vasculature are highlighted in order to illustrate some of the emerging trends in the field An Introduction to Structured Population

Dynamics J. M. Cushing, 1998-01-01 This monograph introduces the theory of structured population dynamics and its applications focusing on the asymptotic dynamics of deterministic models **Trustworthy Software Development**

Processes Qing Wang, Vahid Garousi, Raymond Madachy, Dietmar Pfahl, 2009-04-23 This book constitutes the refereed proceedings of the Third International Conference on Software Process held in Vancouver Canada in May 2009 colocated with ICSE 2009 the 31st International Conference on Software Engineering The 33 revised full papers presented together with 3 invited papers were carefully reviewed and selected from 96 submissions The papers are organized in topical sections on process management process tools process analysis process simulation modeling experience report process metrics and process modeling and representation **Discrete Mathematical Models, with Applications to Social, Biological, and Environmental Problems**

Fred S. Roberts, 1976 Mathematical models Graphs Applications of graphs Weighted digraphs and pulse processes Markov chains n Person games Group decisionmaking Measurement and utility Index Discrete-time Dynamic Models Ronald K. Pearson, 1999 Fueled by advances in computer technology model based approaches to the control of industrial processes are now widespread While there is an enormous literature on modeling the difficult first step of selecting an appropriate model structure has received almost no attention This book fills the gap providing practical insight into model selection for chemical processes and emphasizing structures suitable for control system design

Mathematical Modeling for Epidemiology and Ecology Glenn Ledder, 2023-04-13 Mathematical Modeling for Epidemiology and Ecology provides readers with the mathematical tools needed to understand and use mathematical models and read advanced mathematical biology books It presents mathematics in biological contexts focusing on the central mathematical ideas and the biological implications with detailed explanations The author assumes no mathematics background beyond elementary differential calculus An introductory chapter on basic principles of mathematical modeling is followed by chapters on empirical modeling and mechanistic modeling These chapters contain a thorough treatment of key ideas and techniques that are often neglected in mathematics books such as the Akaike Information Criterion The second half of the book focuses on analysis of dynamical systems emphasizing tools to simplify analysis such as the Routh Hurwitz conditions and asymptotic analysis Courses can be focused on either half of the book or thematically chosen material from both halves such as a course on mathematical epidemiology The biological content is self contained and includes many topics in epidemiology and ecology Some of this material appears in case studies that focus on a single detailed example and some is based on recent research by the author on vaccination modeling and scenarios from the COVID 19 pandemic The problem sets feature linked problems where one biological setting appears in multi step problems that are sorted into the appropriate section allowing readers to gradually develop complete investigations of topics such as HIV immunology and harvesting of natural resources Some problems use programs written by the author for Matlab or Octave these combine with more traditional mathematical exercises to give students a full set of tools for model analysis Each chapter contains additional case

studies in the form of projects with detailed directions New appendices contain mathematical details on optimization numerical solution of differential equations scaling linearization and sophisticated use of elementary algebra to simplify problems

Ladoga and Onego - Great European Lakes Leonid Rukhovets, Nikolai Filatov, 2010-03-11 Lakes Ladoga and Onego are the greatest lakes in Europe With a surface area of 17891 km² and a volume of 902 km³ the former is one of the top fifteen world s freshwater lakes and is only slightly smaller than Lake Ontario Lake Onego s surface area is 9600 km² and it has a volume of 292 km³ The watershed of Lake Ladoga 258000 km² extends through Northwestern European Russia and the eastern part of Finland including the large Lakes Ilmen and Saimaa and together these Great European Lakes are an important link in the Caspian Baltic White Sea waterway system Their ecological state affects the water quality of the Neva River the Gulf of Finland and the Baltic Sea Thus any changes affect the operational use environmental protection and management of water resources of a wide area and concern such issues as drinking recreation transport and energy The anthropogenic impact on the Lake Onego ecosystem is mostly determined by the sewage waters of the Petrozavodsk and Kondopoga industrial centres while the river inflow makes the most impact on Lake Ladoga Although the anthropogenic stress on the water ecosystems of the Great European Lakes has decreased over the last 15 years there has been some simultaneous evidence of global warming There is not enough current data to identify the climate induced changes in lake ecosystems but there is proof that the main cause of lacustrine ecosystem changes is determined by anthropogenic factors

Dictionary of Concrete Technology Natt Makul, 2025-06-04 The Dictionary of Concrete Technology is a thorough resource encapsulating the progressions in concrete technology which connects traditional methodologies with contemporary innovations With over 1 000 meticulously selected terminologies it provides clear definitions context and cross references catering to professionals students and researchers This dictionary addresses the necessity for an updated lexicon to keep pace with the swift advancements in materials science and civil engineering Compiled through years of collaboration with scholars engineers and industry specialists it ensures precision and relevance Organized alphabetically with detailed elucidations the dictionary is straightforward to navigate supported by an extensive index and references for further exploration Focusing on both current methodologies and emerging trends such as sustainability and digital construction it offers insights into the future of the discipline Designed as an essential instrument it continues evolving with updates supporting its users quest for knowledge and excellence

Discrete Models Of Fluid Dynamics A S Alves, 1991-04-30 Recent developments of discrete methods of fluid dynamics particularly the two most relevant aspects the half discrete case discrete Boltzmann equation and the totally discrete one lattice gas were discussed Both the conceptual and numerical significance of these discrete models were covered as well as the mathematical problems which arise from them This Colloquium is the third of a series initiated in Santa Fe USA 1986 the second having taken place in Torino Italy 1988

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Evaluation of Human Biodynamic Response, Performance and Protection Henning E. von Gierke, 1979 **Applied Partial Differential Equations** Paul DuChateau, David W. Zachmann, 2002-01-01 Superb introduction devotes almost half its pages to numerical methods for solving partial differential equations while the heart of the book focuses on boundary value and initial boundary value problems on spatially bounded and on unbounded domains integral transforms uniqueness and continuous dependence on data first order equations and more Numerous exercises included with solutions for many at end of book For students with little background in linear algebra a useful appendix covers that subject briefly **Discrete Probability Models and Methods** Pierre Brémaud, 2017-01-31 The emphasis in this book is placed on general models Markov chains random fields random graphs universal methods the probabilistic method the coupling method the Stein Chen method martingale methods the method of types and versatile tools Chernoff's bound Hoeffding's inequality Holley's inequality whose domain of application extends far beyond the present text Although the examples treated in the book relate to the possible applications in the communication and computing sciences in operations research and in physics this book is in the first instance concerned with theory The level of the book is that of a beginning graduate course It is self contained the prerequisites consisting merely of basic calculus series and basic linear algebra matrices The reader is not assumed to be trained in probability since the first chapters give in considerable detail the background necessary to understand the rest of the book *Discrete Dynamical Models* Ernesto Salinelli, Franco Tomarelli, 2014-06-11 This book provides an introduction to the analysis of discrete dynamical systems The content is presented by an unitary approach that blends the perspective of mathematical modeling together with the ones of several discipline as Mathematical Analysis Linear Algebra Numerical Analysis Systems Theory and Probability After a preliminary discussion of several models the main tools for the study of linear and non linear scalar dynamical systems are presented paying particular attention to the stability analysis Linear difference equations are studied in detail and an elementary introduction of Z and Discrete Fourier Transform is presented A whole chapter is devoted to the study of bifurcations and chaotic dynamics One step vector valued dynamical systems are the subject of three chapters where the reader can find the applications to positive systems Markov chains networks and search engines The book is addressed mainly to students in Mathematics Engineering Physics Chemistry Biology and Economics The exposition is self contained some appendices present prerequisites algorithms and suggestions for computer simulations The analysis of several examples is enriched by the proposition of many related exercises of increasing difficulty in the last chapter the detailed solution is given for most of them **Discrete and Continuum Models for Complex Metamaterials** Francesco dell'Isola, David J. Steigmann, 2020-03-12 Explores the relationship between discrete and continuum mechanics as a tool to model new and complex metamaterials Including a comprehensive bibliography and historical review of the field and a pedagogical mathematical treatment it is ideal for graduate students and researchers in mechanical and civil engineering and materials science **Hidden Markov and Other Models for Discrete-valued Time Series** Iain L.

MacDonald, Walter Zucchini, 1997-01-01 Discrete valued time series are common in practice but methods for their analysis are not well known In recent years methods have been developed which are specifically designed for the analysis of discrete valued time series Hidden Markov and Other Models for Discrete Valued Time Series introduces a new versatile and computationally tractable class of models the hidden Markov models It presents a detailed account of these models then applies them to data from a wide range of diverse subject areas including medicine climatology and geophysics This book will be invaluable to researchers and postgraduate and senior undergraduate students in statistics Researchers and applied statisticians who analyze time series data in medicine animal behavior hydrology and sociology will also find this information useful

Multidimensional Analysis and Discrete Models Aleksei A. Dezin, 2018-01-18 Multidimensional Analysis and Discrete Models a thorough and detailed reference covers the main structures of multidimensional analysis and the intrinsically defined discrete models in applied mathematics mathematical physics and related fields The material is presented in a clear and straightforward manner with background information provided to define finite models and to clarify the concepts of multidimensional analysis The book covers special difference models of the mathematical physics equations models of boundary value problems and objects of quantum mechanics Considerable attention is also given to differential operators on Riemannian manifolds and the interpretation of classical vector analysis The primary focus of Multidimensional Analysis and Discrete Models is on the description of regular methods of constructing intrinsically defined discrete models for special classes of continual objects but emphasis is also given to the interaction of ideas and methods that exist throughout the field of mathematics For example the connections between theories derived from classical and functional analysis Riemannian geometry and algebraic topology are illustrated and are discussed in terms of their relevance to computing solutions

Basic Models in Epidemiology Fred Brauer, Carlos Castillo-Chavez, 1994 *Computational Mechanics, Materials and Engineering Applications* Jian Rong Yang, Min Yu, 2011-12-22 Selected peer reviewed papers from the 2011 International Workshop on Computational Mechanics Materials and Engineering Applications CMMEA 2011 July 23 24 2011 in Kunming P R China

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