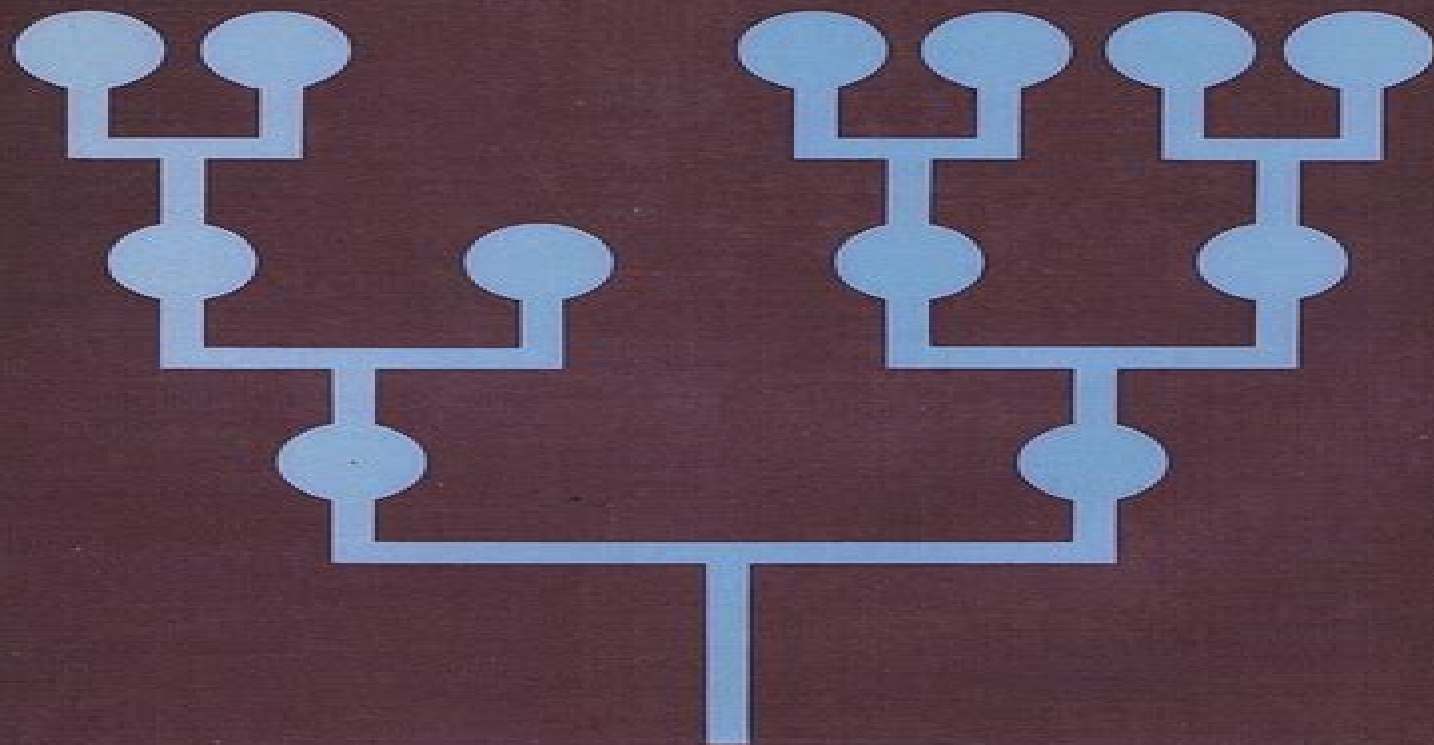


Branching Processes with Biological Applications

P. JAGERS



Branching Processes With Biological Applications

Valeri M. Mladenov, Plamen Ch. Ivanov



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of theoretical approaches to solving new problems in applied fields such as Epidemiology Biology Genetics and of course Population Dynamics The topics covered can broadly be classified into the following areas 1 Coalescent Branching Processes 2 Branching Random Walks 3 Population Growth Models in Varying and Random Environments 4 Size Density Resource Dependent Branching Models 5 Age Dependent Branching Models 6 Special Branching Models 7 Applications in Epidemiology 8 Applications in Biology and Genetics Offering a valuable reference guide to contemporary branching process theory the book also explores many open problems paving the way for future research *Workshop on Branching Processes and Their Applications* Miguel González, Inés M. Puerto, Rodrigo Martínez, Manuel Molina, Manuel Mota, Alfonso Ramos, 2010-03-02 One of the charms of mathematics is the contrast between its generality and its applicability to concrete even everyday problems Branching processes are typical in this Their niche of mathematics is the abstract pattern of reproduction sets of individuals changing size and composition through their members reproducing in other words what Plato might have called the pure idea behind demography population biology cell kinetics molecular replication or nuclear fission had he known these scientific fields Even in the performance of algorithms for sorting and classification there is an inkling of the same pattern In special cases general properties of the abstract ideal then interact with the physical or biological or whatever properties at hand But the population or branching pattern is strong it tends to dominate and here lies the reason for the extreme usefulness of branching processes in diverse applications Branching is a clean and beautiful mathematical pattern with an intellectually challenging intrinsic structure and it pervades the phenomena it underlies **Branching Processes** Patsy Haccou, Peter Jagers, Vladimir A. Vatutin, 2005-05-19 This book covers the mathematical idea of branching processes and tailors it for a biological audience **Branching Processes in Biology** Marek Kimmel, David E. Axelrod, 2015-02-17 This book provides a theoretical background of branching processes and discusses their biological applications Branching processes are a well developed and powerful set of tools in the field of applied probability The range of applications considered includes molecular biology cellular biology human evolution and medicine The branching processes discussed include Galton Watson Markov Bellman Harris Multitype and General Processes As an aid to understanding specific examples two introductory chapters and two glossaries are included that provide background material in mathematics and in biology The book will be of interest to scientists who work in quantitative modeling of biological systems particularly probabilists mathematical biologists biostatisticians cell biologists molecular biologists and bioinformaticians The authors are a mathematician and cell biologist who have collaborated for more than a decade in the field of branching processes in biology for this new edition This second expanded edition adds new material published during the last decade with nearly 200 new references More material has been added on infinitely dimensional multitype processes including the infinitely dimensional linear fractional case Hypergeometric function treatment of the special case of the Griffiths Pakes infinite allele branching process has also been added There are additional applications of recent molecular

processes and connections with systems biology are explored and a new chapter on genealogies of branching processes and their applications Reviews of First Edition This is a significant book on applications of branching processes in biology and it is highly recommended for those readers who are interested in the application and development of stochastic models particularly those with interests in cellular and molecular biology Siam Review Vol 45 2 2003 This book will be very interesting and useful for mathematicians statisticians and biologists as well and especially for researchers developing mathematical methods in biology medicine and other natural sciences Short Book Reviews of the ISI Vol 23 2 2003

Biological Applications of Branching Processes Anthony Pakes, 2000 **Stochastic Processes: Theory and Methods** D N Shanbhag, Calyampudi Radhakrishna Rao, 2001 This volume in the series contains chapters on areas such as Pareto processes branching processes inference in stochastic processes Poisson approximation Levy processes and iterated random maps and some classes of Markov processes Other chapters cover random walk and fluctuation theory a semigroup representation and asymptotic behavior of certain statistics of the Fisher Wright Moran coalescent continuous time ARMA processes record sequence and their applications stochastic networks with product form equilibrium and stochastic processes in insurance and finance Other subjects include renewal theory stochastic processes in reliability supports of stochastic processes of multiplicity one Markov chains diffusion processes and Ito's stochastic calculus and its applications c Book News Inc Stochastic Processes Jyotiprasad Medhi, 1994 Aims At The Level Between That Of Elementary Probability Texts And Advanced Works On Stochastic Processes The Pre Requisites Are A Course On Elementary Probability Theory And Statistics And A Course On Advanced Calculus The Theoretical Results Developed Have Been Followed By A Large Number Of Illustrative Examples These Have Been Supplemented By Numerous Exercises Answers To Most Of Which Are Also Given It Will Suit As A Text For Advanced Undergraduate Postgraduate And Research Level Course In Applied Mathematics Statistics Operations Research Computer Science Different Branches Of Engineering Telecommunications Business And Management Economics Life Sciences And So On A Review Of The Book In American Mathematical Monthly December 82 Gives This Book Special Positive Emphasis As A Textbook As Follows Of The Dozen Or More Texts Published In The Last Five Years Aimed At The Students With A Background Of A First Course In Probability And Statistics But Not Yet To Measure Theory This Is The Clear Choice An Extremely Well Organized Lucidly Written Text With Numerous Problems Examples And Reference T With T Where T Denotes Textbook And Denotes Special Positive Emphasis The Current Enlarged And Revised Edition While Retaining The Structure And Adhering To The Objective As Well As Philosophy Of The Earlier Edition Removes The Deficiencies Updates The Material And The References And Aims At A Border Perspective With Substantial Additions And Wider Coverage **Statistical Modeling for Biological Systems** Anthony Almudevar, David Oakes, Jack Hall, 2020-03-11 This book commemorates the scientific contributions of distinguished statistician Andrei Yakovlev It reflects upon Dr Yakovlev's many research interests including stochastic modeling and the analysis of micro array data and

throughout the book it emphasizes applications of the theory in biology medicine and public health The contributions to this volume are divided into two parts Part A consists of original research articles which can be roughly grouped into four thematic areas i branching processes especially as models for cell kinetics ii multiple testing issues as they arise in the analysis of biologic data iii applications of mathematical models and of new inferential techniques in epidemiology and iv contributions to statistical methodology with an emphasis on the modeling and analysis of survival time data Part B consists of methodological research reported as a short communication ending with some personal reflections on research fields associated with Andrei and on his approach to science The Appendix contains an abbreviated vitae and a list of Andrei s publications complete as far as we know The contributions in this book are written by Dr Yakovlev s collaborators and notable statisticians including former presidents of the Institute of Mathematical Statistics and of the Statistics Section of the AAAS Dr Yakovlev s research appeared in four books and almost 200 scientific papers in mathematics statistics biomathematics and biology journals Ultimately this book offers a tribute to Dr Yakovlev s work and recognizes the legacy of his contributions in the biostatistics community

Nonlinear Dynamics for Biological Systems Michael Stich,Jorge Carballido-Landeira,2025-10-12 This book offers a rigorous and fascinating overview of the current state of the art of the application of nonlinear dynamics and closely related methodologies to biological systems The book has arisen from the presentations and lively discussions at the Third Workshop of Nonlinear Dynamics in Biological Systems held in Madrid in June 2022 which united world experts analyzing a range of biological and biophysical systems The chapters in this book describe in a didactic way but also with the necessary details abstract and conceptual approaches as well as numerical experimental and data driven methods Through these contributions the nonlinear nature of biological systems is highlighted as well as the clues for understanding reproducing and possibly engineering their complex behavior hinting occasionally even at their use in medicine The audience of this book includes but is not limited to applied mathematicians biophysicists and computational biologists as well as graduate students in these fields

Nonlinear Dynamics of Electronic Systems Valeri M. Mladenov,Plamen Ch. Ivanov,2014-06-30 This book constitutes the refereed proceedings of the 22nd International Conference on Nonlinear Dynamics of Electronic Systems NDES 2014 held in Albena Bulgaria in July 2014 The 47 revised full papers presented were carefully reviewed and selected from 65 submissions The papers are organized in topical sections on nonlinear oscillators circuits and electronic systems networks and nonlinear dynamics and nonlinear phenomena in biological and physiological systems

Introduction to Stochastic Models Marius Iosifescu,Nikolaos Limnios,Gheorghe Oprisan,2013-03-04 This book provides a pedagogical examination of the way in which stochastic models are encountered in applied sciences and techniques such as physics engineering biology and genetics economics and social sciences It covers Markov and semi Markov models as well as their particular cases Poisson renewal processes branching processes Ehrenfest models genetic models optimal stopping reliability reservoir theory storage models and queuing systems Given this

comprehensive treatment of the subject students and researchers in applied sciences as well as anyone looking for an introduction to stochastic models will find this title of invaluable use

Introduction to Stochastic Processes Using R
Sivaprasad Madhira, Shailaja Deshmukh, 2023-11-03 This textbook presents some basic stochastic processes mainly Markov processes It begins with a brief introduction to the framework of stochastic processes followed by the thorough discussion on Markov chains which is the simplest and the most important class of stochastic processes The book then elaborates the theory of Markov chains in detail including classification of states the first passage distribution the concept of periodicity and the limiting behaviour of a Markov chain in terms of associated stationary and long run distributions The book first illustrates the theory for some typical Markov chains such as random walk gambler's ruin problem Ehrenfest model and Bienayme Galton Watson branching process and then extends the discussion when time parameter is continuous It presents some important examples of a continuous time Markov chain which include Poisson process birth process death process birth and death processes and their variations These processes play a fundamental role in the theory and applications in queuing and inventory models population growth epidemiology and engineering systems The book studies in detail the Poisson process which is the most frequently applied stochastic process in a variety of fields with its extension to a renewal process The book also presents important basic concepts on Brownian motion process a stochastic process of historic importance It covers its few extensions and variations such as Brownian bridge geometric Brownian motion process which have applications in finance stock markets inventory etc The book is designed primarily to serve as a textbook for a one semester introductory course in stochastic processes in a post graduate program such as Statistics Mathematics Data Science and Finance It can also be used for relevant courses in other disciplines Additionally it provides sufficient background material for studying inference in stochastic processes The book thus fulfils the need of a concise but clear and student friendly introduction to various types of stochastic processes

The Legacy of Alladi Ramakrishnan in the Mathematical Sciences

Krishnaswami Alladi, John R. Klauder, Calyampudi R. Rao, 2010-08-26 Alladi Ramakrishnan 1923 2008 was an eminent scientist who had a wide range of research interests in theoretical and mathematical physics Professor Ramakrishnan made significant contributions to probability and statistics elementary particle physics cosmic rays and astrophysics matrix theory and the special theory of relativity Ramakrishnan believed strongly that in addition to doing fundamental research one must contribute to the advancement of the profession Inspired by his visit to the Institute for Advanced Study in Princeton in 1957 1958 he returned to Madras and began the Theoretical Physics Seminar at his family home Ekamra Nivas These seminars were ultimately responsible for the creation of MATSCIENCE The Institute of Mathematical Sciences in 1962 This institute of which he was the Director for its first 21 years has grown steadily in size and stature and is his monumental contribution to the profession In a distinguished scientific life that has spanned more than five decades Professor Ramakrishnan has come into close contact with and was influenced by several eminent mathematicians and physicists and has moulded the careers of his

several students and young researchers This volume which is a tribute to his great legacy not only deals with his significant contributions to research and the profession but also contains a new collection of research and survey papers by leading physicists and mathematicians that cover a broad range of areas in the mathematical sciences **The Mathematics of the Uncertain** Eduardo Gil, Eva Gil, Juan Gil, María Ángeles Gil, 2018-02-28 This book is a tribute to Professor Pedro Gil who created the Department of Statistics OR and TM at the University of Oviedo and a former President of the Spanish Society of Statistics and OR SEIO In more than eighty original contributions it illustrates the extent to which Mathematics can help manage uncertainty a factor that is inherent to real life Today it goes without saying that in order to model experiments and systems and to analyze related outcomes and data it is necessary to consider formal ideas and develop scientific approaches and techniques for dealing with uncertainty Mathematics is crucial in this endeavor as this book demonstrates As Professor Pedro Gil highlighted twenty years ago there are several well known mathematical branches for this purpose including Mathematics of chance Probability and Statistics Mathematics of communication Information Theory and Mathematics of imprecision Fuzzy Sets Theory and others These branches often intertwine since different sources of uncertainty can coexist and they are not exhaustive While most of the papers presented here address the three aforementioned fields some hail from other Mathematical disciplines such as Operations Research others in turn put the spotlight on real world studies and applications The intended audience of this book is mainly statisticians mathematicians and computer scientists but practitioners in these areas will certainly also find the book a very interesting read Transient Processes in Cell Proliferation Kinetics Andrej Yu. Yakovlev, Nikolaj M. Yanev, 2013-03-08 A mathematician who has taken the romantic decision to devote himself to biology will doubtlessly look upon cell kinetics as the most simple and natural field of application for his knowledge and skills Indeed the thesaurus he is to master is not so complicated as say in molecular biology the structural elements of the system i.e. cells have been segregated by Nature itself simple considerations of balance may be used for deducing basic equations and numerous analogies in other areas of science also superficial add to one's confidence Generally speaking this number of impressions is correct as evidenced by the very great theoretical studies on population kinetics unmatched in other branches of mathematical biology This however does not mean that mathematical theory of cell systems has traversed in its development a pathway free of difficulties or errors The seeming ease of formalizing the phenomena of cell kinetics not infrequently led to the appearance of mathematical models lacking in adequacy or effectiveness from the viewpoint of applications As in any other domain of science mathematical theory of cell systems has its own intrinsic logic of development which however depends in large measure on the progress in experimental biology Thus during a fairly long period running into decades activities in that sphere were centered on devising its own specific approaches necessitated by new objectives in the experimental in vivo and in vitro investigation of cell population kinetics in different tissues

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