C. J. Mode

Stochastic Processes in Demography and Their Computer Implementation

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Thomas Nagylaki

Stochastic Processes In Demography And Their Computer Implementation:

Stochastic Processes in Demography and Their Computer Implementation C.J. Mode,2012-12-06 According to a recent report of the United States Census Bureau world population as of June 30 1983 was estimated at about 4 7 billion people of this total an estimated 82 million had been added in the previous year World population in 1950 was estimated at about 2 5 billion consequently if 82 million poeple are added to the world population in each of the coming four years population size will be double that of 1950 Another way of viewing the yearly increase in world population is to compare it to 234 million the estimated current population of the United States If the excess of births over deaths continues a group of young people equivalent to the population of the United States will be added to the world population about every 2 85 years Although the rate of increase in world population has slowed since the midsixties it seems likely that large numbers of infants will be added to the population each year for the foreseeable future A large current world population together with a high likelihood of sub stantial increments in size every year has prompted public and scholarly recognition of population as a practical problem Tangible evidence in the public domain that population is being increasingly viewed as a problem is provided by the fact that many governments around the world either have or plan to implement policies regarding population Evidence of scholarly concern is provided by an increasing flow of publications dealing with population   Stochastic Processes in Demography and Their Computer Implementation C. J. Mode,1985-09-01   *Branching Processes and Their Applications* Inés M. del Puerto,Miguel González,Cristina Gutiérrez,Rodrigo Martínez,Carmen Minuesa,Manuel Molina,Manuel Mota,Alfonso Ramos,2016-09-06 This volume gathers papers originally presented at the 3rd Workshop on Branching Processes and their Applications WBPA15 which was held from 7 to 10 April 2015 in Badajoz Spain http branching unex es wbpa15 index htm The papers address a broad range of theoretical and practical aspects of branching process theory Further they amply demonstrate that the theoretical research in this area remains vital and topical as well as the relevance of branching concepts in the development 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

The Remington Registry of Outstanding Professionals Remington Registry,2011-04   *Inspiring the Youth of America by Remington Registry* J. Alex Ficarra,2013-09 Here at Remington it has become clearly evident that mediocrity wasnot a path chosen by anyone in this book It has also become vividly apparent that humanitarian contribution was a common theme in the lives of many of these professionals and as a company we made it our primary objective to recognize those contributions

first and foremost Although the foundation of our company is based on networking and mutual collaboration we felt it was our moral obligation to assist in any way we can the professionals who demonstrated extreme self sacrifice and compassion for others We would also like to mention that our staff went to great personal length to get the fine details of each and every person in this book We pride ourselves in offering much more than a registry and a basic summary of each professional We encourage you the reader to immerse yourself in the lives of others Experience the joy pain adversity fear and heroism of some of the most brilliant professionals on our planet Speaking for myself and the staff of the Remington Registry of Outstanding Professionals we hope you enjoy reading our book and it is our sincere desire that you draw inspiration from it and use it as a tool when relentlessly pursuing your dreams **Age-Structured Population Dynamics in Demography and Epidemiology** Hisashi Inaba,2017-03-15 This book is the first one in which basic demographic models are rigorously formulated by using modern age structured population dynamics extended to study real world population problems Age structure is a crucial factor in understanding population phenomena and the essential ideas in demography and epidemiology cannot be understood without mathematical formulation therefore this book gives readers a robust mathematical introduction to human population studies In the first part of the volume classical demographic models such as the stable population model and its linear extensions density dependent nonlinear models and pair formation models are formulated by the McKendrick partial differential equation and are analyzed from a dynamical system point of view In the second part mathematical models for infectious diseases spreading at the population level are examined by using nonlinear differential equations and a renewal equation Since an epidemic can be seen as a nonlinear renewal process of an infected population this book will provide a natural unification point of view for demography and epidemiology The well known epidemic threshold principle is formulated by the basic reproduction number which is also a most important key index in demography The author develops a universal theory of the basic reproduction number in heterogeneous environments By introducing the host age structure epidemic models are developed into more realistic demographic formulations which are essentially needed to attack urgent epidemiological control problems in the real world **Statistical Demography and Forecasting** Juha Alho,Bruce Spencer,2006-05-27 Sustainability of pension systems intergeneration fiscal equity under population aging and accounting for health care benefits for future retirees are examples of problems that cannot be solved without understanding the nature of population forecasts and their uncertainty Similarly the accuracy of population estimates directly affects both the distributions of formula based government allocations to sub national units and the apportionment of political representation The book develops the statistical foundation for addressing such issues Areas covered include classical mathematical demography event history methods multi state methods stochastic population forecasting sampling and census coverage and decision theory The methods are illustrated with empirical applications from Europe and the U S For statisticians the book provides a unique introduction to demographic problems in a familiar language For demographers

actuaries epidemiologists and professionals in related fields the book presents a unified statistical outlook on both classical methods of demography and recent developments To facilitate its classroom use exercises are included Over half of the book is readily accessible to undergraduates but more maturity may be required to benefit fully from the complete text Knowledge of differential and integral calculus matrix algebra basic probability theory and regression analysis is assumed Juha M Alho is Professor of Statistics University of Joensuu Finland and Bruce D Spencer is Professor of Statistics and Faculty Fellow at the Institute for Policy Research Northwestern University Both have contributed extensively to statistical demography and served in advisory roles and as statistical consultants in the field *Stochastic Processes In Epidemiology: Hiv/aids, Other Infectious Diseases And Computers* Charles J Mode,Candace K Sleeman,2000-06-09 AIDS autoimmune deficiency syndrome is a devastating human disease caused by HIV a human immunodeficiency virus which may be transmitted by either sexual or other contacts in which body fluids are exchanged Cases of AIDS have been reported in a majority of countries throughout the world indicating that the HIV AIDS epidemic is international in scope This book deals with the mathematical and statistical techniques underlying the models used to understand the population dynamics of not only HIV AIDS but also other infectious diseases Attention is given to the development strategies for the prevention and control of the international epidemic within the frameworks of the models Two distinguishing features of the book are the incorporation of stochastic and deterministic formulations within a unifying conceptual framework and the discussion of issues related to the mathematical designs of models which are necessary for the rigorous utilization of computer intensive methods The book will be of value to applied mathematicians biomathematicians biostatisticians epidemiologists and other scientists interested in applying mathematics and computers to not only the HIV AIDS epidemic but also other fields of epidemiology **Mathematical Biology** James D. Murray,2013-06-29 Mathematics has always benefited from its involvement with developing sciences Each successive interaction revitalises and enhances the field Biomedical science is clearly the premier science of the foreseeable future For the continuing health of their subject mathematicians must become involved with biology With the example of how mathematics has benefited from and influenced physics it is clear that if mathematicians do not become involved in the biosciences they will simply not be a part of what are likely to be the most important and exciting scientific discoveries of all time Mathematical biology is a fast growing well recognised albeit not clearly defined subject and is to my mind the most exciting modern application of mathematics The increasing use of mathematics in biology is inevitable as biol ogy becomes more quantitative The complexity of the biological sciences makes interdisciplinary involvement essential For the mathematician biology opens up new and exciting branches while for the biologist mathematical modelling offers another research tool commmensurate with a new powerful laboratory technique but only if used appropriately and its limitations recognised However the use of esoteric mathematics arrogantly applied to biological problems by mathemati cians who know little about the real biology together with unsubstantiated claims as to how important such theories are does little to promote

the interdisciplinary involvement which is so essential Mathematical biology research to be useful and interesting must be relevant biologically **Complexity, Language, and Life: Mathematical Approaches** John L. Casti,Anders Karlqvist,2012-12-06 In May 1984 the Swedish Council for Scientific Research convened a small group of investigators at the scientific research station at Abisko Sweden for the purpose of examining various conceptual and mathematical views of the evolution of complex systems The stated theme of the meeting was deliberately kept vague with only the purpose of discussing alternative mathematically based approaches to the modeling of evolving processes being given as a guideline to the participants In order to limit the scope to some degree it was decided to emphasize living rather than nonliving processes and to invite participants from a range of disciplinary specialities spanning the spectrum from pure and applied mathematics to geography and analytic philosophy The results of the meeting were quite extraordinary while there was no intent to focus the papers and discussion into predefined channels an immediate self organizing effect took place and the deliberations quickly oriented themselves into three main streams conceptual and formal structures for characterizing sys tem complexity evolutionary processes in biology and ecology the emergence of complexity through evolution in natural lan guages The chapters presented in this volume are not the proceed ings of the meeting Following the meeting the organizers felt that the ideas and spirit of the gathering should be preserved in some written form so the participants were each requested to produce a chapter explicating the views they presented at Abisko written specifically for this volume The results of this exercise form the volume you hold in your hand **Community Food Webs** Joel E. Cohen,Frédéric Briand,Charles M. Newman,2012-12-06 Food webs hold a central place in ecology They describe which organisms feed on which others in natural habitats This book describes recently discovered empirical regularities in real food webs it proposes a novel theory unifying many of these regularities as well as extensive empirical data After a general introduction reviewing the empirical and theoretical discoveries about food webs the second portion of the book shows that community food webs obey several striking phenomenological regularities Some of these unify regardless of habitat Others differentiate showing that habitat significantly influences structure The third portion of the book presents a theoretical analysis of some of the unifying empirical regularities The fourth portion of the book presents 113 community food webs Collected from scattered sources and carefully edited they are the empirical basis for the results in the volume The largest available set of data on community food webs provides a valuable foundation for future studies of community food webs The book is intended for graduate students teachers and researchers primarily in ecology The theoretical portions of the book provide materials useful to teachers of applied combinatorics in particular random graphs Researchers in random graphs will find here unsolved mathematical problems The Remington Registry of Outstanding Professionals 2011-2012 J Alex Ficarra,2012-09-11 Undoubtedly growing up during the Vietnam War water gate and gas shortages can have a profound effect on a child Also being the son of immigrant parents most certainly can lead to a traumatizing clash of cultures and the understanding of right

and wrong With that being said the Remington Company gave me the honor of a lifetime by letting me express my thoughts in unison with telling the brilliant stories of professionals around the world As I wrote endlessly 24 hours a day I realized that our world is full of hope and real promise I realized that it wasnt about war ideology and the pursuit of global domination I realized that in the pages of this great book great things were about to happen if only these stories can be made public I realized that I had the opportunity of a lifetime by expressing the Humanitarian attributes that these professionals continually made After many years of writing I realized that the Remington Company had a distinct and noble purpose and perhaps we could not change the present but we could certainly try to change our future With that we created our Mentorship Program which gets these prolific stories out to the children We wrote the stories with zest but never crossed the line of respect or dignity We wished to capture the hearts of our audience and prove to them that giving was not an option but more so our duty as life forms on our planet Today our book has a theme Inspiring the youth of America This theme was our way of telling the world Lets hold hands and prepare our children for a better life today I continue to write for the Registry My life has irrevocably changed for the better I volunteer for any thing all the time I enjoy moments of quiet and the appreciation of our environment I read these biographies in amazement as everyone else does and it never seems to get uneventful Either way I sincerely hope you enjoy these biographies and use them to strengthen your spirit and confidence about our existence as a species on this planet I patiently wait for divine intervention in order to write my next biography and am happy to serve the brilliant members of the Remington Registry of Outstanding Professionals   An Essay on the Importance of Being Nonlinear Bruce J. West,2013-03-13 One of my favorite quotes is from a letter of Charles Darwin 1887 I have long discovered that geologists never read each other s works and that the only object in writing a book is proof of earnestness and that you do not form your opinions without undergoing labour of some kind It is not clear if this private opinion of Darwin was one that he held to be absolutely true or was one of those opinions that as with most of us coincides with our bad days but is replaced with a more optimistic view on our good days I hold the sense of the statement to be true in general but not with regard to scientists never reading each other s work Even if that were true however the present essay would still have been written as a proof of earnestness This essay outlines my personal view of how nonlinear mathematics may be of value in formulating models outside the physical sciences This perspective has developed over a number of years during which time I have repeatedly been amazed at how an accepted model would fail to faithfully characterize the full range of avail able data because of its implicit or explicit dependence on linear concepts This essay is intended to demonstrate how linear ideas have come to dominate and therefore limit a scientist s ability to understand any given class of phenomena   **Resource Management** Marc Mangel,2013-03-13 These are the proceedings of the Second R Yorque Workshop on Resource Management which took place in Ashland Oregon on July 23 25 1984 The purpose of the workshop is to provide an informal atmosphere for the discussion of resource assessment and management problems Each participant

presented a one hour morning talk afternoons were reserved for informal chatting The workshop was successful in stimulating ideas and interaction The papers by R Deriso R Hilborn and C Walters all address the same basic issue so they are lumped together Other than that the order to the papers in this volume was determined in the same fashion as the order of speakers during the workshop by random draw Marc Mangel Department of Mathematics University of California Davis California June 1985 TABLE OF CONTENTS A General Theory for Fishery Modeling Jon Schnute Data Transformations in Regression Analysis with Applications to Stock Recruitment Relationships David Ruppert and Raymond J Carroll 29 A Conceptual Model for Multispecies Multifleet Fisheries Wayne M Getz Gordon L Swartzman and Robert C Francis 49 Risk Adverse Harvesting Strategies Richard Der iso 65 A Comparison of Harvest Policies for Mixed Stock Fisheries Ray Hilborn 75 Pathological Behavior of Managed Populations When Production Relationships are Assessed from Natural Experiments Carl J Walters   **Individual-Based Models and Approaches In Ecology** D. L. DeAngelis,2018-01-18 Until fairly recently populations were handled as homogenized averages which made modeling feasible but which ignored the essential fact that in any population there is a great variety of individuals of different ages sizes and degrees of fitness Recently because of the increased availability of affordable computer power approaches have been developed which are able to recognize individual differences Individual based models are of great use in the areas of aquatic ecology terrestrial ecology landscape or physiological ecology terrestrial ecology landscape or physiological ecology and agriculture This book discusses which biological problems individual based models can solve as well as the models inherent limitations It explores likely future directions of theoretical development in these models as well as currently feasible management applications and the best mathematical approaches and computer languages to use The book also details specific applications to theory and management   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 **Stochastic Processes In Genetics And Evolution: Computer Experiments In The Quantification Of Mutation And Selection** Charles J Mode,Candace K Sleeman,2012-02-13 The scope of this book is the field of evolutionary genetics The book contains new methods for simulating evolution at the genomic level It sets out applications using up to date Monte Carlo simulation methods applied in classical population genetics and sets out new fields of quantifying mutation and selection at the Mendelian level A serious limitation of Wright Fisher process the assumption that population size is constant motivated the introduction of self regulating branching processes in this book While providing a short review of the principles of probability and its application and using computer intensive methods whilst applying these principles this book explains how it is possible to derive new formulas expressed in terms of matrix algebra providing new insights into the classical Wright Fisher processes of evolutionary genetics Also covered are the development of new methods for studying genetics and evolution simulating nucleotide substitutions of a DNA molecule and on self regulating branching processes Components of natural selection are studied in terms of reproductive success of each genotype whilst also studying the differential ability of genotypes to compete for resources and sexual selection The concept of the gene is also reviewed in this book and it provides a current definition of a gene based on very recent experiments with micro array technologies A development of stochastic models for simulating the evolution of model genomes concludes the studies in this book Deserving of a place on the book shelves of workers in biomathematics applied probability stochastic processes and statistics as well as in bioinformatics and phylogenetics it will also be relevant to those interested in computer simulation and evolutionary biologists interested in quantitative methods **Integrated Population Biology and Modeling Part B** ,2019-02-05 Integrated Population Biology and Modeling Part B Volume 40 offers very delicately complex and precise realities of quantifying modern and traditional methods of understanding populations and population dynamics with this updated release focusing on Prey predator animal models Back projections Evolutionary Biology computations Population biology of collective behavior and bio patchiness Collective behavior Population biology through data science Mathematical modeling of multi species mutualism new insights remaining challenges and applications to ecology Population Dynamics of Manipur Stochastic Processes and Population Dynamics Models The Mechanisms for Extinction Persistence and Resonance Theories of Stationary Populations and association with life lived and life left and more Studies human and animal models that are studied both separately and throughout chapters Presents a comprehensive and timely update on integrated population biology *Introduction to Mathematics for Life Scientists* Edward Batschelet,2012-12-06 From the reviews Here we have a book which we can wholeheartedly suggest The mathematics is sound and pared to essentials the examples are an impressive well chosen

selection from the biomathematics literature and the problem sets provide both useful exercises and some fine introductions to the art of modeling Batschelet has written an introduction to biomathematics which is notable for its clarity not only a clarity of presentation but also a clarity of purpose backed by a sure grasp of the field Bulletin of Mathematical Biology 1 For research workers in the biomedical field who feel a need for freshening up their knowledge in mathematics but so far have always been frustrated by either too formal or too boring textbooks there is now exactly what they would like to have an easy to read introduction This book is highly motivating for practical workers because only those mathematical techniques are offered for which there is an application in the life sciences The reader will find it stimulating that each tool described is immediately exemplified by problems from latest publications Int Zeitschrift f r klinische Pharmakologie Therapie und Toxikologie 2   Introduction to Theoretical Population Genetics Thomas Nagylaki,2013-03-12 This book covers those areas of theoretical population genetics that can be investigated rigorously by elementary mathematical methods I have tried to formulate the various models fairly generally and to state the biological as sumptions quite explicitly I hope the choice and treatment of topics will en able the reader to understand and evaluate detailed analyses of many specific models and applications in the literature Models in population genetics are highly idealized often even over idealized and their connection with observation is frequently remote Further more it is not practicable to measure the parameters and variables in these models with high accuracy These regrettable circumstances amply justify the use of appropriate lucid and rigorous approximations in the analysis of our models and such approximations are often illuminating even when exact solu tions are available However our empirical and theoretical limitations justify neither opaque incomplete formulations nor unconvincing inadequate analy ses for these may produce uninterpretable misleading or erroneous results Intuition is a principal source of ideas for the construction and investigation of models but it can replace neither clear formulation nor careful analysis Fisher 1930 1958 pp x 23 24 38 not only espoused similar ideas but he recognized also that our concepts of intuition and rigor must evolve in time The book is neither a review of the literature nor a compendium of results The material is almost entirely self contained The first eight chapters are a thoroughly revised and greatly extended version of my published lecture notes Nagylaki 1977a

The Enigmatic Realm of **Stochastic Processes In Demography And Their Computer Implementation**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Stochastic Processes In Demography And Their Computer Implementation** a literary masterpiece penned by a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book is core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of people who partake in its reading experience.

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