

Biomathematics Volume 14

C. J. Mode

Stochastic Processes in Demography and Their Computer Implementation



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Stochastic Processes In Demography And Their Computer Implementation

Hisashi Inaba



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 people 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 mid-sixties 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 substantial 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 **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 *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 biology 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 commensurate 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 mathematicians 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

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

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 system complexity evolutionary processes in biology and ecology the emergence of complexity through evolution in natural languages The chapters presented in this volume are not the proceedings 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 *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 **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 available 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

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