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C. J. Mode

Stochastic Processes in Demography and Their Computer Implementation

Stochastic Processes In Demography And Their Computer Implementation

RJ Alexander

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 *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 **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   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

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   **The Remington Registry of Outstanding Professionals** Remington Registry,2011-04-26   *Inspiring the Youth of America by Remington Registry* J Alex Ficarra,2013-09-24 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   **Mathematical Structures in Population Genetics** I︠U︡riĭ Il'ich Li︠u︡bich,1992-03-16 Very Good No Highlights or Markup all pages are intact   **Multiregional Demography** Andrei Rogers,1995-12-05 The SPACE computer program included in the disk provides the opportunity to test multiregional demographic analysis by carrying out calculations with empirical data   Life Table Techniques and Their Applications Narayanan Krishnan Namboodiri,C. M. Suchindran,1987-05-28 This is the first volume to present a comprehensive treatment of the theory and application of life table techniques The emphasis is placed on applications and the theory is presented in such a way that individuals with minimal knowledge of calculus and matrix algebra can follow the argument   **Current Index to Statistics, Applications, Methods and Theory** ,1988 The Current Index to Statistics CIS is a bibliographic index of publications in statistics probability and related fields   **Duration-dependent Multistate Population Dynamics** Hisashi Inaba,1992   *Individual-Based Models and Approaches In Ecology* Donald Lee DeAngelis,1992-08 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   **The Semi-longitudinal Multistate Life Table** Robert Michael Shavelle,1996   *International Books in Print* ,1991   *Methodology for Population Studies and Development* Kuttan Mahadevan,Parameswara Krishnan,1993-05-25 This volume examines aspects of research methodology related to assessing the interaction between development and population behaviour with all its social ramifications The contributors approach development from a broad holistic perspective and present interdisciplinary methods for the study of population processes with emphasis on both theory and practice   *A Mathematical Model for Human Population Reproduction by Iterative Marriage* Hisashi Inaba,1993   Journal of Statistical Planning and Inference North-Holland Publishing Company,1998   *Subject Guide to Books in Print* ,1975

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