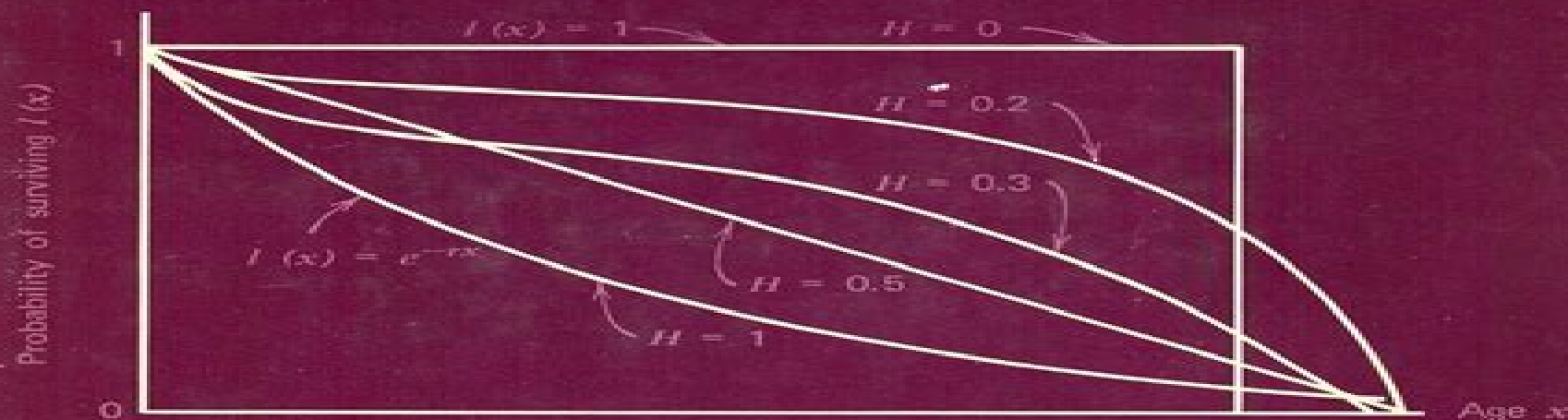


APPLIED MATHEMATICAL DEMOGRAPHY



Nathan Keyfitz

Applied Mathematical Demography

Christos H. Skiadas, Charilaos Skiadas



Applied Mathematical Demography:

Applied Mathematical Demography Nathan Keyfitz, 2013-03-09 What follows is a new edition of the second in a series of three books providing an account of the mathematical development of demography The first Introduction to the Mathematics of Population Addison Wesley 1968 gave the mathematical background The second the original of the present volume was concerned with demography itself The third in the sequence Mathematics Through Problems with John Beekman Springer Verlag 1982 supplemented the first two with an ordered sequence of problems and answers Readers interested in the mathematics may consult the earlier book republished with revisions by Addison Wesley in 1977 and still in print There is no overlap in subject matter between Applied Mathematical Demography and the Introduction to the Mathematics of Population Three new chapters have been added dealing with matters that have come recently into the demographic limelight multi state calculations family demography and heterogeneity vii PREFACE This book is concerned with commonsense questions about for instance the effect of a lowered death rate on the proportion of old people or the effect of abortions on the birth rate The answers that it reaches are not always commonsense and we will meet instances in which intuition has to be adjusted to accord with what the mathematics shows to be the case

Applied Mathematical Demography Nathan Keyfitz, 1985 **Applied Mathematical Demography** Nathan Keyfitz, Hal Caswell, 2008-11-01

Problems in Applied Mathematical Demography Nathan Keyfitz, Noreen Goldman, 1975 **What Mathematical Demography Tells that We Would Not Know Without it** Nathan Keyfitz, 1972 Mathematical Demography David P. Smith, Nathan Keyfitz, 2013-07-23 Mathematical demography is the centerpiece of quantitative social science The founding works of this field from Roman times to the late Twentieth Century are collected here in a new edition of a classic work by David R Smith and Nathan Keyfitz Commentaries by Smith and Keyfitz have been brought up to date and extended by Kenneth Wachter and Herv Le Bras giving a synoptic picture of the leading achievements in formal population studies Like the original collection this new edition constitutes an indispensable source for students and scientists alike and illustrates the deep roots and continuing vitality of mathematical demography Demography: Analysis and Synthesis, Four Volume Set Graziella Caselli, Jacques Vallin, Guillaume Wunsch, 2006-01-03 This four volume collection of over 140 original chapters covers virtually everything of interest to demographers sociologists and others Over 100 authors present population subjects in ways that provoke thinking and lead to the creation of new perspectives not just facts and equations to be memorized The articles follow a theory methods applications approach and so offer a kind of one stop shop that is well suited for students and professors who need non technical summaries such as political scientists public affairs specialists and others Unlike shorter handbooks Demography Analysis and Synthesis offers a long overdue thorough treatment of the field Choosing the analytical method that fits the data and the situation requires insights that the authors and editors of Demography Analysis and Synthesis have explored and developed This extended examination of demographic tools not only seeks to explain the

analytical tools themselves but also the relationships between general population dynamics and their natural economic social political and cultural environments Limiting themselves to human populations only the authors and editors cover subjects that range from the core building blocks of population change fertility mortality and migration to the consequences of demographic changes in the biological and health fields population theories and doctrines observation systems and the teaching of demography The international perspectives brought to these subjects is vital for those who want an unbiased rounded overview of these complex multifaceted subjects Topics to be covered Population Dynamics and the Relationship Between Population Growth and Structure The Determinants of Fertility The Determinants of Mortality The Determinants of Migration Historical and Geographical Determinants of Population The Effects of Population on Health Economics Culture and the Environment Population Policies Data Collection Methods and Teaching about Population Studies All chapters share a common format Each chapter features several cross references to other chapters Tables charts and other non text features are widespread Each chapter contains at least 30 bibliographic citations

Deterministic Aspects of Mathematical Demography J. Impagliazzo, 2012-12-06 Mathematical Demography the study of population and its analysis through mathematical models has received increased interest in the mathematical community in recent years It was not until the twentieth century however that the study of population predominantly human population achieved its mathematical character The subject of mathematical demography can be viewed from either a deterministic viewpoint or from a stochastic viewpoint For the sake of brevity stochastic models are not included in this work It is therefore my intention to consider only established deterministic models in this discussion starting with the life table as the earliest model to a generalized matrix model which is developed in this treatise These deterministic models provide sufficient development and conclusions to formulate sound mathematical population analysis and estimates of population projections It should be noted that although the subject of mathematical demography focuses on human populations the development and results may be applied to any population as long as the preconditions that make the model valid are maintained Information concerning mathematical demography is at best fragmented

Demography - Volume I Zeng Yi, 2010-11-30 According to the classic and widely accepted statement by Hauser and Duncan 1959 2 demography is defined as the study of the size territorial distribution and components of population changes therein and components of such changes Almost all disciplines of social sciences and most disciplines of natural sciences deal with human beings in one way or another either directly or indirectly Furthermore demographic concepts e g birth rate death rate and migration and methods and analysis strategies e g life table analysis can be readily extended to other species insects animals plants etc and inanimate collectives enterprises automobiles etc Clearly demography is an important thematic field in science and it may provide the empirical foundation for studying human beings animals and inanimate collectives on which other relevant scientific research is built The volume aims to be of value to the various audiences of both non specialists and experts who seek a comprehensive understanding of issues related to human

population As reviewed in the very beginning of the Theme Introduction interdisciplinary is one of the three major features of demography Given the rapid development in techniques for collecting not only demographic data but also other related data concerning health biomarkers genetics behaviors and social and natural environments in conventional population surveys as well as rapidly enhancing computing powers this volume shows and concludes that demography will be even more interdisciplinary in the coming decades A notable example is that the cross field marriage between bio medical sciences and demography will lead us to enter an era in which bio medical and demographic methods will be well integrated As indicated by James R Carey and James W Vaupel in Chapter 13 of this volume the bio demographic branches of demography are vibrant areas of demographic research that are rapidly growing and that have great potential to enrich and enlarge the domain of demography Not only can demographers learn much from biologists and epidemiologists but demographers can contribute much to research on life in general and to research on population health The increasing availability of data sources and much enhanced computing internet power will also lead demography to be more interactive with the other fields such as psychology environmental science economics business and management etc As discussed in this volume s Chapter 11 by Swanson and Pol for example it is now possible to link conventional demographic data sources of census surveys and vital statistics with administrative records such as social security tax reporting medical insurance hospital records school registration supermarket purchasing cards use etc while protecting individuals privacy Such linkages will substantially increase the value of demographic methods surveys and administrative records for scientific research and policy analysis as well as the applicability of demography in business and governmental decision making processes

Biodemography James R. Carey, Deborah A. Roach, 2020-01-07 An authoritative overview of the concepts and applications of biological demography This book provides a comprehensive introduction to biodemography an exciting interdisciplinary field that unites the natural science of biology with the social science of human demography Biodemography is an essential resource for demographers epidemiologists gerontologists and health professionals as well as ecologists population biologists entomologists and conservation biologists This accessible and innovative book is also ideal for the classroom James Carey and Deborah Roach cover everything from baseline demographic concepts to biodemographic applications and present models and equations in discrete rather than continuous form to enhance mathematical accessibility They use a wealth of real world examples that draw from data sets on both human and nonhuman species and offer an interdisciplinary approach to demography like no other with topics ranging from kinship theory and family demography to reliability engineering tort law and demographic disasters such as the Titanic and the destruction of Napoleon s Grande Arm e Provides the first synthesis of demography and biology Covers baseline demographic models and concepts such as Lexis diagrams mortality fecundity and population theory Features in depth discussions of biodemographic applications like harvesting theory and mark recapture Draws from data sets on species ranging from fruit flies and plants to elephants and humans Uses a uniquely interdisciplinary approach to

demography bringing together a diverse range of concepts models and applications Includes informative biodemographic shorts appendixes on data visualization and management and more than 150 illustrations of models and equations

Analytical Family Demography Robert Schoen,2018-09-12 In this book new mathematical and statistical techniques that permit more sophisticated analysis are refined and applied to questions of current concern in order to understand the forces that are driving the recent dramatic changes in family patterns The areas examined include the impact of the evolving Second Demographic Transition where complex patterns of gender dynamics and social change are re orienting family life New analyses of marriage cohabitation union dynamics and union dissolution provide a fresh look at the changing family life cycle emerging patterns of partner choice and the impact of union dissolution on the life course The demography of kinship is explored and the importance of parity progression to the generation of the kinship web is highlighted The methodology of population projections by family status is examined and new results presented that demonstrate how recognizing family status advances long term policy objectives especially with regard to children and the elderly This book applies up to date methods to examine the demography of the family and will be of value to sociologists demographers and all those who are interested in the family

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

Model-Based Demography Thomas K. Burch,2017-10-14 Late in a career of more than sixty years Thomas Burch an internationally known social demographer undertook a wide ranging methodological critique of demography This open access volume contains a selection of resulting papers some previously unpublished some published but not readily accessible from past meetings of The International Union for the Scientific Study of Population and its research committees or from other small conferences and seminars Rejecting the idea that demography is simply a branch of applied statistics his work views it as an autonomous and complete scientific discipline When viewed from the perspective of modern philosophy of science specifically the semantic or model based school demography is a balanced discipline with a rich body of techniques and data but also with more and better theories than generally recognized As demonstrated in this book some demographic techniques can also be seen as theoretical models and some substantive behavioral models commonly rejected as theory because of inconsistent observations are now seen as valuable theoretical models for example demographic transition theory This book shows how demography can build a strong theoretical edifice on its broad and deep empirical foundation by adoption of the model based approach to science But the full fruits of this approach will require demographers to make greater use of computer modeling both macro and micro simulation in the statement and manipulation of theoretical ideas as well as for numerical computation This book is open access under a CC BY license

Demography of Population Health, Aging and Health Expenditures Christos H. Skiadas,Charilaos Skiadas,2020-08-24 This book provides theoretical and applied material for estimating vital parts of demography and health issues including the

healthy aging process along with calculating the healthy life years lost to disability It further includes the appropriate methodology for the optimum health expenditure allocation Through providing data analysis statistical and stochastic methodology probability approach and important applications the book explores topics such as aging and mortality birth death processes self perceived age life time and survival as well as pension and labor force By providing a methodological approach to health problems in demography and society including and quantifying important parameters this book is a valuable guide for researchers theoreticians and practitioners from various disciplines *Math and Bio 2010* Lynn Arthur Steen, 2005 Math and bio 2010 grew out of Meeting the Challenges Education across the Biological Mathematical and Computer Sciences a joint project of the Mathematical Association of America MAA the National Science Foundation Division of Undergraduate Education NSF DUE the National Institute of General Medical Sciences NIGMS the American Association for the Advancement of Science AAAS and the American Society for Microbiology ASM Foreword p vi *Quantitative Demography and Health Estimates* Christos H Skiadas, Charilaos Skiadas, 2023-08-16 This book provides new theoretic and applied material with focus on quantitative methods and data analysis techniques applied in demography population studies health issues and statistics It discusses the quantitative techniques to estimate the healthy life expectancy by expanding the classical life tables to include the proportion with disability calculated from life tables along with the Sullivan method The provided templates apply immediately to the life tables from WHO HMD Eurostat and other life table providers Furthermore the book explores the possibility of creating new health indicators along with Covid 19 pandemic management factors associated to loneliness and an alcohol indicator Part of the book is devoted to mortality epidemic models and the supercentenarians age estimation Data analysis and artificial intelligence methods are included to apply in demographic and socio economic cases By providing a methodology to cope with health problems in demography and society by quantifying important health parameters this book is a valuable guide for researchers theoreticians and practitioners from various disciplines and especially health scientists statisticians economists and sociologists **Sensitivity Analysis: Matrix Methods in Demography and Ecology** Hal Caswell, 2019-04-02 This open access book shows how to use sensitivity analysis in demography It presents new methods for individuals cohorts and populations with applications to humans other animals and plants The analyses are based on matrix formulations of age classified stage classified and multistate population models Methods are presented for linear and nonlinear deterministic and stochastic and time invariant and time varying cases Readers will discover results on the sensitivity of statistics of longevity life disparity occupancy times the net reproductive rate and statistics of Markov chain models in demography They will also see applications of sensitivity analysis to population growth rates stable population structures reproductive value equilibria under immigration and nonlinearity and population cycles Individual stochasticity is a theme throughout with a focus that goes beyond expected values to include variances in demographic outcomes The calculations are easily and accurately implemented in matrix oriented programming languages

such as Matlab or R Sensitivity analysis will help readers create models to predict the effect of future changes to evaluate policy effects and to identify possible evolutionary responses to the environment Complete with many examples of the application the book will be of interest to researchers and graduate students in human demography and population biology The material will also appeal to those in mathematical biology and applied mathematics [The Health State Function of a Population](#) Christos H. Skiadas,Charilaos Skiadas,2013-03-04 The Health State Function of a Population This book will inspire colleagues in applying developing and expanding the theoretical and practical issues related to the health state of the population and to improve forecasts related to the life expectancy and the healthy life span The Second Edition of the book includes four more chapters presenting very important theoretical and applied work The book deals with the theory related to the health state of a population and the introduced health state function The book presents and applies the stochastic modeling techniques and the first exit time theory in demography along with the healthy life expectancy estimates and a derivation and classification of the human development stages The data fitting techniques and the related programs are also presented Many new and old terms are explored and quantitatively estimated especially the health state or the vitality of a population the Deterioration and the related function and the Healthy Life Expectancy A method for estimating the total loss of healthy life years with applications and comparisons for the healthy life expectancy in UK Scotland Sweden and in the US States is added A new Quantitative Method for Estimating the Human Development Stages based on the Health State Function Theory and the Resulting Deterioration Process is also included The book is addressed to demographers actuaries statisticians applied mathematicians sociologists psychologists economists health scientists biologists policy makers and scientists and practitioners of very many fields Attention was given to prepare the material for readers from multidisciplinary fields thus including the appropriate formulas and mathematical typos along with many applications from computer programs in Excel Read this book and share with us a fascinating exploration on life table data and the underlying information on human health state *Elements of Mathematical Ecology* Mark Kot,2001-07-19 An introduction to classical and modern mathematical models methods and issues in population ecology **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

Applied Mathematical Demography: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels enthralling the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the fascinating narratives that have charmed audiences this year. The Must-Read : Colleen Hoover "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Applied Mathematical Demography : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and gripping novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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