

# Demography Measuring And Modeling Population Proc

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 Measuring Mortality, Fertility, and Natural Increase  
 Oxford Textbook of Global Public Health  
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## **KADE WILLIAMS**

[Demography](#) Springer

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 Hervé 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.

*The Nature of Demography* Cambridge University Press

Demography is the study of population structure and change. As modern society becomes ever more complex, it becomes increasingly important to be able to measure accurately all aspects of

change in the population, and estimate what its future size and composition might be. This book describes and explains the methods demographers use to analyse population data. Looking at mortality and fertility, population dynamics and population projection, nuptiality and migration, Hinde demonstrates that most demographic methods are applications of certain fundamental principles. This book covers material taught in introductory courses in population analysis, while also including more advanced topics such as parity progression ratios, survival analysis and birth interval analysis. Most chapters are followed by a range of exercises, and a comprehensive set of solutions to these exercises is provided at the end of the book. Quattro and Excel spreadsheet files containing data for all the numerical exercises, plus some additional files of data from recent census and surveys, are available via the Internet.

[Measuring Mortality, Fertility, and Natural Increase](#) Springer

Classroom-tested over many years and filled with fresh examples, Essential Demographic Methods is tailored to beginners, advanced students, and researchers. Award-winning teacher and eminent demographer Kenneth Wachter draws on themes from the individual lifecourse, history, and global

change to bring out the wider appeal of demography.

[Oxford Textbook of Global Public Health](#) Springer

Demographic Methods and Concepts makes accessible the most commonly needed techniques for working with population statistics, irrespective of the reader's mathematical background. For the first time in such a text, concepts and practical strategies needed in the interpretation of demographic indices and data are included. Spreadsheet training exercises enable students to acquire the computer skills needed for demographic work. The accompanying free CD-ROM contains innovative, fully integrated learning modules as well as applications facilitating demographic studies.

[Essential Demographic Methods](#) Springer

With a unique focus on middle-range theory, this book details the application of spatial analysis to demographic research as a way of integrating and better understanding the different transitional components of the overall demographic transition. This book first details key concepts and measures in modern spatial demography and shows how they can be applied to middle-range

theory to better understand people, places, communities and relationships throughout the world. Next, it shows middle-range theory in practice, from using spatial data as a proxy for social science statistics to examining the effect of "fracking" in Pennsylvania on the formation of new coalitions among environmental advocacy organizations. The book also traces future developments and offers some potential solutions to promoting and facilitating instruction in spatial demography. This volume is an ideal resource for advanced undergraduate and graduate students enrolled in courses involving spatial analyses in the social sciences, from sociology and political science to economics and educational research. In addition, scholars and others interested in the role that geographic context plays in relation to their research will find this book a helpful guide in further developing their work.

*Demography* CRC Press

Devising and investigating random processes that describe mathematical models of phenomena is a major aspect of probability theory applications. Stochastic methods have penetrated into an unimaginably wide scope of problems encountered by researchers who need stochastic methods to solve problems and further their studies. This handbook supplies the knowledge you need on the modern theory of random processes. Packed with methods, *Models of Random Processes: A Handbook for Mathematicians and Engineers* presents definitions and properties on such widespread processes as Poisson, Markov, semi-Markov, Gaussian, and branching processes, and on special processes such as cluster, self-exiting, double stochastic Poisson, Gauss-Poisson, and extremal processes occurring in a variety of different practical problems. The handbook is based on an axiomatic definition of probability space, with strict definitions and constructions of random processes. Emphasis is placed on the constructive definition of each class of random processes, so that a process is explicitly defined by a sequence of independent random variables and can easily be implemented into the modelling. *Models of Random Processes: A Handbook for Mathematicians and Engineers* will be useful to researchers, engineers, postgraduate students and teachers in the fields of mathematics, physics, engineering, operations research, system analysis, econometrics, and many others.

**Handbook of Copper Compounds and Applications** Harvard University Press

Here, biologists and statisticians come together in an interdisciplinary synthesis with the aim of developing new methods to overcome the most significant challenges and constraints faced by quantitative biologists seeking to model demographic rates.

*Demography* New York : Academic Press

This comprehensive, introductory text takes an applied, interdisciplinary approach. Because one author is a sociologist and the other a demographer, the text introduces perspectives from many different disciplines. The most applied book on the market, *Demography: The Science of Population* teaches students how to use the multitude of demographic resources available to them as consumers of data. Using case studies throughout to illustrate key concepts in a realistic and concrete manner, the authors also draw examples from recent U.S. Census data, United Nations and World Bank reports, tables from the National Center for Health Statistics, and other U.S. state- and county-level sources. New to the Second Edition This second edition is divided into four main parts; each part begins with a short introduction, and all chapters include end-of-chapter summaries. All tables, related narrative, and graphics have been updated to include data from the 2000 and 2010 census counts, more recent estimates for the United States—especially the American Community Survey—and comparable new data from international sources (e.g. World Bank, Population Research Bureau World Data Sheet). Several new figures have been added throughout the text. Part I: An Overview of Population Science, introduces the field of demography and provides a summary of its subject matter. The chapters in this part have been reorganized to reflect changes in the discipline. Chapter 1 now includes a new "the study of populations" section, a shorter Chapter 2 covers population size, and its former discussion of structure has been moved to Chapter 3. This de-emphasizes the history of population science to some extent and increases emphasis on population size as the key demographic variable. Chapter 4 presents the main principles and analytical techniques associated with the three "static" characteristics of populations: size, structure, and geographic distribution. Part II: Population Dynamics: Vital Events and Growth, reflects the wealth of data and analytical techniques now available from The U.S. Centers for Disease Control and Prevention (CDC) and its "Wonder" utility. The first three chapters focus on the vital events of birth, death, and migration. The final chapter in this part brings this material together in a discussion of population growth: its measurement, its history, and current

related policy concerns. Part III: Population Models, introduces the principles of life table analysis, population estimation, and projection. This material has been simplified and updated. Chapter 9, *The Life Table: An Introduction*, has been revised to accord with the new federal alignment for vital statistics between the CDC and National Institute for Health Statistics. Life tables from non-U.S. sources are increased in number and in detailed functions. Part IV: Demography in Application, provides overviews of population policy, the environment, and demographic resources, along with a brief postscript on population in the larger scheme of things. What appeared as two appendices in the first edition, one on the history of population policy and one on tourism as a type of international migration, have been combined to create a new Chapter 14. The end-of-chapter material has been shortened and now contains a summary, key terms, and notes. A full-color enhanced eText is also available, and the second edition is accompanied by a teaching and learning package, including instructor's manual, test bank, lecture slides, and a companion website that offers students additional resources, flashcards, and self-study quizzes.

**Dynamic Population Models** Springer

This book gives a unifying framework for estimating the abundance of open populations: populations subject to births, deaths and movement, given imperfect measurements or samples of the populations. The focus is primarily on populations of vertebrates for which dynamics are typically modelled within the framework of an annual cycle, and for which stochastic variability in the demographic processes is usually modest. Discrete-time models are developed in which animals can be assigned to discrete states such as age class, gender, maturity, population (within a metapopulation), or species (for multi-species models). The book goes well beyond estimation of abundance, allowing inference on underlying population processes such as birth or recruitment, survival and movement. This requires the formulation and fitting of population dynamics models. The resulting fitted models yield both estimates of abundance and estimates of parameters characterizing the underlying processes.

**Methods and Models in Demography** Oxford University Press, USA

Like the original two-volume work, this work attempts to present a systematic and comprehensive exposition, with illustrations, of the methods used by technicians and research workers in dealing with demographic data. The book is concerned with how data on population are gathered, classified, and treated to produce tabulations and various summarizing measures that reveal the significant aspects of the composition and dynamics of populations. It sets forth the sources, limitations, underlying definitions, and bases of classification, as well as the techniques and methods that have been developed for summarizing and analyzing the data.

*The Demography of Roman Italy* John Wiley & Sons

This book offers an ideal introduction to the analysis of demographic data. Inside, readers of all quantitative skill levels will find the information they need to develop a solid understanding of the methods used to study human populations and how they change over time due to such factors as birth, death, and migration. The comprehensive, systematic coverage defines basic concepts and introduces data sources; champions the use of Lexis diagrams as a device for visualizing demographic measures; highlights the importance of making comparisons (whether over time or between populations at a point in time) that control for differences in population composition; describes approaches to analyzing mortality, fertility, and migration; and details approaches to the important field of population projection. Throughout, the author makes the material accessible for readers through careful exposition, the use of examples, and other helpful features. This book's thorough coverage of basic concepts and principles lays a firm foundation for anyone contemplating undertaking demographic research, whether in a university setting or in a professional employment that takes on a demographic dimension requiring in-house training.

*Demography* Springer Science & Business Media

Includes bibliographical references and index.

**Demography: A Very Short Introduction** University of Chicago Press

This volume presents state of the art analyses from scholars dealing with a range of demographic topics of current concern, including longevity, mortality and morbidity, migration, and how population composition impacts intergenerational transfer schemes. New approaches are applied to such issues as measuring changes in cohort survivorship in low mortality populations, patterns of mortality improvement at older ages, and the consequences of heterogeneity in the susceptibility to death. Studies examine models of the current status of the HIV/AIDS epidemic, advance present methods for estimating population change in small areas, and strive to

disentangle age, period, and cohort effects. In sum, the book addresses key contemporary issues in measuring and modeling dynamic populations, and advances the frontier of dynamic demography.

**Fundamentals of Demographic Analysis: Concepts, Measures and Methods** National Academies Press

Sixth edition of the hugely successful, internationally recognised textbook on global public health and epidemiology, with 3 volumes comprehensively covering the scope, methods, and practice of the discipline

*Assessment of Sea-Turtle Status and Trends* Wiley-Blackwell

Emphasizing the utility of copper-related compounds, this text illustrates the numerous current and potential uses from agricultural bactericides and wood preservatives to colourants and solar cells. It discusses the properties and behaviour of the copper ion, copper compounds' employment in organic polymerization and isomerization reactions, the enhancement of feed efficiencies and additives in plant and animal nutrition, and more.

*Modelling Population Dynamics* Springer Science & Business Media

This book provides an up-to-date overview of demographic analysis and methods, including recent developments in demography. Concepts and methods, from the nature of demographic information through data collection and the basics of statistical measures and on to demographic analysis itself are succinctly explained. Measures and analyses of fertility, mortality, life tables, migration and demographic events such as marriage, education and labour force are described while later chapters cover multiple decrement tables, population projections, the importance of testing and smoothing demographic data, the stable population model and demographic software. An emphasis on practical aspects and the use of real-life examples based on data from around the globe make this book accessible, whilst comprehensive references and links to data and other resources on the internet help readers to explore further. The text is concise and well written, making it ideally suited to a wider audience from students to academics and teachers. Students of demography, geography, sociology, economics, as well as professionals, academics and students of marketing, human resource management, and public health who have an interest in population issues will all find this book useful.

*Handbook of Population* Guilford Press

All six species of sea turtles found in U.S. waters are listed as endangered or threatened, but the exact population sizes of these species are unknown due to a lack of key information regarding birth and survival rates. The U.S. Endangered Species Act prohibits the hunting of sea turtles and reduces incidental losses from activities such as shrimp trawling and development on beaches used for nesting. However, current monitoring does not provide enough information on sea turtle populations to evaluate the effectiveness of these protective measures. *Sea Turtle Status and Trends* reviews current methods for assessing sea turtle populations and finds that although counts of sea turtles are essential, more detailed information on sea turtle biology, such as survival rates and breeding patterns, is needed to predict and understand changes in populations in order to develop successful management and conservation plans.

*Dynamic Demographic Analysis* Springer

English ed. of: *La demographie*. Paris: O. Jacob, c2005.

*Population* Princeton University Press

This volume provides the first comprehensive survey of current methods, progress and debates in Roman demography, and offers new insights into key issues of population change and reproductive behaviour in the Roman world from Italy to Egypt.

*Demographic Methods* Waveland Press

This volume presents state of the art analyses from scholars dealing with a range of demographic topics of current concern, including longevity, mortality and morbidity, migration, and how population composition impacts intergenerational transfer schemes. New approaches are applied to such issues as measuring changes in cohort survivorship in low mortality populations, patterns of mortality improvement at older ages, and the consequences of heterogeneity in the susceptibility to death. Studies examine models of the current status of the HIV/AIDS epidemic, advance present methods for estimating population change in small areas, and strive to disentangle age, period, and cohort effects. In sum, the book addresses key contemporary issues in measuring and modeling dynamic populations, and advances the frontier of dynamic demography.