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Demography and Health Issues

Principles and Recommendations for Population and Housing Censuses, Revision 3

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Statistical Office*

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JAIDA ARIANA

Demography and Health Issues Springer Science & Business
Media

This book provides new theories, applications and quantitative methods in demography, population studies and statistics. It presents and applies data analysis, statistics and stochastic modeling techniques focusing on demography, population aging, mortality and health sciences. The book describes diverse stochastic processes as well as Markov and semi-Markov models in demography and population studies, along with chapters on statistical models and methods in biostatistics and epidemiology.

As such the book will be a valuable source to demographers, health scientists, statisticians, economists and sociologists.

**Principles and Recommendations for Population and
Housing Censuses, Revision 3** United Nations

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.

Statistical Methods and Applications from a Historical Perspective
OUP Oxford

This book presents both theoretical contributions and empirical applications of advanced statistical techniques including geo-additive models that link individual measures with area variables to account for spatial correlation; multilevel models that address the issue of clustering within family and household; multi-process models that account for interdependencies over life-course events and non-random utilization of health services; and flexible parametric alternatives to existing intensity models. These analytical techniques are illustrated mainly through modeling maternal and child health in the African context, using data from demographic and health surveys. In the past, the estimation of levels, trends and differentials in demographic and health outcomes in developing countries was heavily reliant on indirect methods that were devised to suit limited or deficient data. In recent decades, world-wide surveys like the World Fertility Survey and its successor, the Demographic and Health Survey have played an important role in filling the gap in survey data from

developing countries. Such modern demographic and health surveys enable investigators to make in-depth analyses that guide policy intervention strategies, and such analyses require the modern and advanced statistical techniques covered in this book. The text is ideally suited for academics, professionals, and decision makers in the social and health sciences, as well as others with an interest in statistical modelling, demographic and health surveys. Scientists and students in applied statistics, epidemiology, medicine, social and behavioural sciences will find it of value.

Using Geo-demographic Methods for Improving Small-area Population Estimates Springer Science & Business Media
Methods of Demographic Analysis Springer Science & Business Media

The Methods and Material of Demography Springer

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.

Selected Papers Princeton University Press

Population statistics and demographic analysis, sampling and survey methods, agricultural surveys and censuses, economic surveys and censuses, computer data systems.

Financial, Demographic, Stochastic and Statistical Models and Methods CRC Press

Provides a unique introduction to demographic problems in a familiar language. Presents a unified statistical outlook on both classical methods of demography and recent developments. Exercises are included to facilitate its classroom use. Both authors have contributed extensively to statistical demography and served in advisory roles and as statistical consultants in the field.

An Approach to Measuring Fertility, Mortality and Migration John Wiley & Sons

Wildlife Demography compiles the multitude of available estimation techniques based on sex and age data, and presents these varying techniques in one organized, unified volume.

Designed to guide researchers to the most appropriate estimator based upon their particular data set and the desired level of study precision, this book provides quantitative consideration, statistical models, estimator variance, assumptions and examples of use. The authors focus on estimation techniques using sex and age ratios because this data is relatively easy to collect and commonly used by wildlife management. Applicable to a wide array of wildlife species, including game and non-game birds and mammals Features more than 100 annotated examples illustrating application of statistical methods Includes more than 640 references of the analysis of nontagging data and the factors that may influence interpretation Derives historical and ad hoc demographic methods in a modern statistical framework

Forecasting International Migration in Europe: A Bayesian View Springer Science & Business Media

Bayesian Demographic Estimation and Forecasting presents three statistical frameworks for modern demographic estimation and forecasting. The frameworks draw on recent advances in statistical methodology to provide new tools for tackling challenges such as disaggregation, measurement error, missing data, and combining multiple data sources. The methods apply to single demographic series, or to entire demographic systems. The methods unify estimation and forecasting, and yield detailed measures of uncertainty. The book assumes minimal knowledge of statistics, and no previous knowledge of demography. The authors have developed a set of R packages implementing the methods. Data and code for all applications in the book are available on www.bdef-book.com. "This book will be welcome for the scientific community of forecasters...as it presents a new

approach which has already given important results and which, in my opinion, will increase its importance in the future." ~Daniel Courgeau, Institut national d'études démographiques
Essays on Integrating Data, Technique and Theory National Academies Press

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.

Mathematical Demography New York : United Nations
 Since its early years, the United Nations has issued a series of international recommendations on population and housing

censuses under the title "Principles and Recommendations for Population and Housing Censuses". These publication series, which are based on good national practices in census taking, are widely used by national statistical offices and census officials in countries throughout the world in planning and carrying out population and housing censuses, as well as other related data collection activities, particularly demographic and socio-economic surveys. The recommendations provide guidance on the main characteristics of population and housing censuses, general material on census methodology, planning, and operations, and more detailed guidance on the content of censuses, in terms of topics for population and also housing. These series are currently revised to assist countries in preparing for the 2020 round of censuses by taking into account changes in methodology, technology, as well as the need for better data dissemination and utilization.

Subnational Population Estimates Springer Science & Business Media

Bayesian Demographic Estimation and Forecasting presents three statistical frameworks for modern demographic estimation and forecasting. The frameworks draw on recent advances in statistical methodology to provide new tools for tackling challenges such as disaggregation, measurement error, missing data, and combining multiple data sources. The methods apply to single demographic series, or to entire demographic systems. The methods unify estimation and forecasting, and yield detailed measures of uncertainty. The book assumes minimal knowledge of statistics, and no previous knowledge of demography. The authors have developed a set of R packages implementing the

methods. Data and code for all applications in the book are available on www.bdef-book.com. "This book will be welcome for the scientific community of forecasters...as it presents a new approach which has already given important results and which, in my opinion, will increase its importance in the future." ~Daniel Courgeau, Institut national d'études démographiques

Applied Modeling Techniques and Data Analysis 2 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.

Applied Demography and Public Health in the 21st Century Springer Science & Business Media

This book demonstrates different statistical techniques for analyzing health-related data as well as providing new techniques for forecasting and/or projecting the incidence of diseases/disorders. It presents information on a variety of health related issues from the developed and developing world. Featuring cutting edge research from distinguished applied demographers and public health specialists, the book bridges the gap between theory and research. Each chapter provides methods and materials that can be used to conduct further research aimed at promoting public health issues. This book is

intended for public health professionals, health policy makers, social epidemiologists, administrators, researchers, and students in the fields of applied demography and public health who are interested in exploring the potential of ground-breaking research or who want to further develop their existing research techniques. It complements another volume in the Applied Demography Series, *Applied Demography and Public Health* (Springer, 2013), which describes how applied demographic techniques can be used to help address public health issues.

Analytical Theory of Biological Populations Springer

This book introduces demographic applications which employ current demographic concepts and theories and cutting-edge methods and findings, all of which have and will continue to have an impact in the broad area of social demography. Through providing an introduction to new and current developments in demography, methodological and statistical issues, data issues, issues of health, aging and mortality, and issues in social demography, this book gives new insights into data, substantive issues, and methodological approaches that will assist readers in their use of demography in their research. At the same time it shows demographers, sociologists, economists, statisticians, methodologists, planners, and marketers how they may learn and improve upon the quality and relevance of their demographic investigations now and in the future.

Report on the United Nations European Seminar on Demographic Statistics, Ankara and Istanbul, 11-19, October 1971 Springer

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.

Statistical Training Programs by the U.S. Bureau of the Census Springer

This novel book provides the reader with the fundamentals of data collection, model construction, analyses, and interpretation across a wide repertoire of demographic techniques and protocols, clearly guided throughout with fully reproducible R scripts.

Model-Based Demography Methods of Demographic Analysis ST/ESA/STAT/SER.F/41

Definitions and Methods of Collecting Demographic Statistics in the European Community Countries Routledge

This paper illustrates how shifts in the size, composition, and distribution of racial and Hispanic origin populations between the 1970 and 2000 Censuses can be affected not only by changes in the meaning of basic concepts over time and space but also by changes in statistical methods. It is important to track changes in methods for allocation and tabulating basic demographic variables. Variation in benchmark distributions, specifically racial classifications and tabulation procedures, are an under-appreciated problem for population studies using demographic analysis.

Forecasting Mortality in Developed Countries Springer Science &

Business Media

Information on future mortality trends is essential for population forecasts, public health policy, actuarial studies, and many other purposes. Realising the importance of such needs, this volume contains contributions to the theory and practice of forecasting mortality in the relatively favourable circumstances in developed countries of Western Europe. In this context techniques from mathematical statistics and econometrics can provide useful descriptions of past mortality. The naive forecast obtained by extrapolating a fitted model may give as good a forecast as any but forecasting by extrapolation requires careful justification since it assumes the prolongation of historical conditions. On the other hand, whilst it is generally accepted that scientific and other advances will continue to impact on mortality, perhaps dramatically so, it is impossible to quantify more than the outline of future consequences with a strong degree of confidence. The decision to modify an extrapolation of a model fitted to historical data (or conversely choosing not to modify it) in order to obtain a forecast is therefore strongly influenced by subjective and judgmental elements, with the quality of the latter dependent on demographic, epidemiological and indeed perhaps more general considerations. The thread running through the book reflects therefore the necessity of integrating demographic, epidemiological, and statistical factors to obtain an improvement in the prediction of mortality.

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