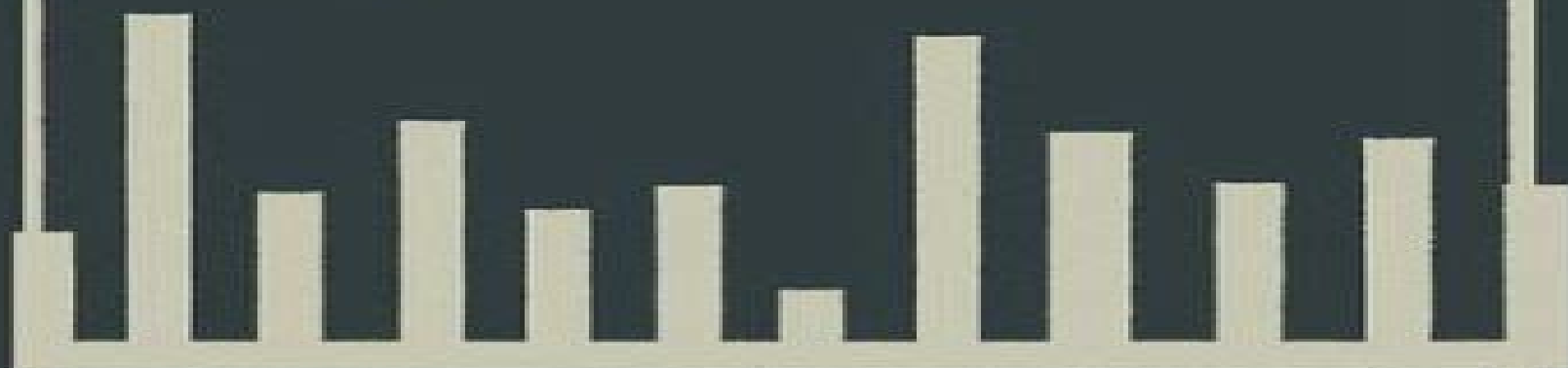


*The Plenum Series on Demographic Methods and
Population Analysis*

A Primer of Population Dynamics



Krishnan Namboodiri

A Primer Of Population Dynamics

**Stanley K. Smith, Jeff Tayman, David A.
Swanson**



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A Primer of Population Dynamics Krishnan Namboodiri, 2013-04-23 A Primer of Population Dynamics introduces to the basics of population studies Author Krishnan Namboodiri utilizes a question and answer format that explores topics such as population theories and conceptual schemes demographic data mortality fertility migration family and household food production and the environment and much more Questions are accompanied by detailed explanations as well as references for additional information An extensive index and glossary allow for easy retrieval of information This introductory textbook is written for students studying demography population sociology and public health

A Primer on Population Dynamics Modeling Hiromi Seno, 2022 This textbook provides an introduction to the mathematical models of population dynamics in mathematical biology The focus of this book is on the biological meaning translation of mathematical structures in mathematical models rather than simply explaining mathematical details and literacies to analyze a model In some recent usages of the mathematical model simply with computer numerical calculations the model includes some inappropriate mathematical structure concerning the reasonability of modeling for the biological problem under investigation For students and researchers who study or use mathematical models it is important and helpful to understand what mathematical setup could be regarded as reasonable for the model with respect to the relation between the biological factors involved in the assumptions and the mathematical structure of the model Topics covered in this book are modeling with geometric progression density effect in population dynamics deriving continuous time models from discrete time models basic modeling for birth death stochastic processes continuous time models modeling interspecific reaction for the continuous time population dynamics model competition and prey predator dynamics modeling for population dynamics with a heterogeneous structure of population qualitative analysis on the discrete time dynamical system necessary knowledge about fundamental mathematical theories to understand the dynamical nature of continuous time models The book includes popular topics in ecology and mathematical biology as well as classic theoretical topics By understanding the biological meaning of modeling for simple models readers will be able to derive a specific mathematical model for a biological problem by reasonable modeling The contents of this book is made accessible for readers without strong Mathematical background

Population at the Millennium: the U.S. Perspective, 1998 Handbook of Population Dudley L. Poston, Michael Micklin, 2006-04-26 This comprehensive handbook provides an overview and update of the issues theories processes and applications of the social science of population studies The volume s 30 chapters cover the full range of conceptual empirical disciplinary and applied approaches to the study of demographic phenomena This book is the first effort to assess the entire field since Hauser and Duncan s 1959 classic *The Study of Population* The chapter authors are among the leading contributors to demographic scholarship over the past four decades They represent a variety of disciplines and theoretical perspectives as well as interests in both basic and applied research

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

Wildlife Demography John R. Skalski, Kristin E. Ryding, Joshua Millspaugh, 2010-07-20 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

State and Local Population Projections Stanley K. Smith, Jeff Tayman, David A. Swanson, 2005-12-21 The initial plans for this book sprang from a late afternoon conversation in a hotel bar All three authors were attending the 1996 meeting of the Population Association of America in New Orleans While nursing

drinks and expounding on a variety of topics we began talking about our current research projects. It so happened that all three of us had been entertaining the notion of writing a book on state and local population projections. Recognizing the enormity of the project for a single author we quickly decided to collaborate. Had we not decided to work together it is unlikely that this book ever would have been written. The last comprehensive treatment of state and local population projections was Don Pittenger's excellent work *Projecting State and Local Populations* 1976. Many changes affecting the production of population projections have occurred since that time. Technological changes have led to vast increases in computing power, new data sources, the development of GIS, and the creation of the Internet. The procedures for applying a number of projection methods have changed considerably and several completely new methods have been developed. The Demography of Health and Health Care (second edition) Louis G. Pol, Richard K. Thomas, 2005-12-27. Health demography has come to play an increasingly important role within the larger field during the past twenty years; the number of health professionals who utilize its methods and materials has grown exponentially. In a thoroughgoing revision of the first edition of this classic text and reference published by Plenum in 1992, the authors convey the general principles that underlie this applied subdiscipline and demonstrate how the merging of demography and health care impacts on the planning processes of a range of health care organizations.

Population Change and Rural Society William A. Kandel, David L. Brown, 2006-10-12. CALVIN L. BEALE. In considering how to introduce the subject of rural population change in the 21st Century I find myself reflecting on my own experience as a demographer for the U.S. Department of Agriculture. When I arrived at the Department the post-World War II modernization of farming was well under way. Each year my colleague Gladys Bowles and I had the unpopular task of announcing how much the farm population had decreased in the prior year. It was hard to say that the phenomenon was someone's fault. Dramatic reductions in labor requirements per unit of agricultural output were occurring everywhere and not just in the United States. But politically blame had to be assigned and whichever political party was not in the White House was certain to place the blame squarely on the current administration. The demographic consequences of this trend were major. In a 22-year period from 1941 to 1962 the net loss of farm population from migration and cessation of farming averaged over a million people per year. It took eight years after the war before an administration was willing to begin to talk about the need to diversify rural employment. By that time farm residents had already become a minority of rural people. However well into the 1970s I continued to receive inquiries from people who still equated rural with farm or who could not envision what rural nonfarm people did for a living. Encyclopedia of Ecology Brian D. Fath, 2014-11-03. The groundbreaking *Encyclopedia of Ecology* provides an authoritative and comprehensive coverage of the complete field of ecology from general to applied. It includes over 500 detailed entries structured to provide the user with complete coverage of the core knowledge accessed as intuitively as possible and heavily cross-referenced. Written by an international team of leading experts, this revolutionary encyclopedia will serve as a one-stop shop to concisely

stand alone articles to be used as a point of entry for undergraduate students or as a tool for active researchers looking for the latest information in the field Entries cover a range of topics including Behavioral Ecology Ecological Processes Ecological Modeling Ecological Engineering Ecological Indicators Ecological Informatics Ecosystems Ecotoxicology Evolutionary Ecology General Ecology Global Ecology Human Ecology System Ecology The first reference work to cover all aspects of ecology from basic to applied Over 500 concise stand alone articles are written by prominent leaders in the field Article text is supported by full color photos drawings tables and other visual material Fully indexed and cross referenced with detailed references for further study Writing level is suited to both the expert and non expert Available electronically on ScienceDirect shortly upon publication

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