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This book is a “How To” guide for modeling population dynamics using Integral Projection Models (IPM) starting from observational data. It is written by a leading research team in this area and includes code in the R language (in the text and online) to carry out all computations. The intended audience are ecologists, evolutionary biologists, and mathematical biologists interested in developing data-driven models for animal and plant populations. IPMs may seem hard as they involve integrals. The aim of this book is to demystify IPMs, so they become the model of choice for populations structured by size or other continuously varying traits. The book uses real examples of increasing complexity to show how the life-cycle of the study organism naturally leads to the appropriate statistical analysis, which leads directly to the IPM itself. A wide range of model types and analyses are presented, including model construction, computational methods, and the underlying theory, with the more technical material in Boxes and Appendices. Self-contained R code which replicates all of the figures and calculations within the text is available to readers on GitHub. Stephen P. Ellner is Horace White Professor of Ecology and Evolutionary Biology at Cornell University, USA; Dylan Z. Childs is Lecturer and NERC Postdoctoral Fellow in the Department of Animal and Plant Sciences at The University of Sheffield, UK; Mark Rees is Professor in the Department of Animal and Plant Sciences at The University of Sheffield, UK. People presents The Complete Guide to This Is Us with new interviews, exclusive behind-the-scenes photos, plus a Season 3 preview. Publisher Description Monitoring Plant and Animal Populations offers an overview of population monitoring issues that is accessible to the typical field biologist and land managers with a modest statistical background. The text includes concrete guidelines for ecologists to follow to design a statistically defensible monitoring program. User-friendly, practical guide, written in a highly readable format. The authors provide an interdisciplinary scope to address the current, widespread interest in monitoring in many environmental fields, including pure and applied ecology, conservation biology, and wildlife management. Emphasizes the role of monitoring in adaptive management. Defines important terminology and contrasts monitoring with other data-collection activities. Covers the applicable principles of sampling and shows how to

design a monitoring project. Provides a step-by-step overview of the monitoring process, illustrated by flow charts and references. The authors also offer guidelines for analyzing and interpreting monitoring data. Illustrates the foundation of management objectives and describes their components, types, and development. Describes common field techniques for measuring important attributes of animal and plant populations. Reviews different methods for recording monitoring data in the field, managing the data, and communicating data to policy makers. This guide contains activities for learners studying the South African ABET level 4 Applied Agriculture and Agricultural Technology learning programme. The activities can be done in the class, at home or as practical work, plus additional notes to assess teaching and assessment activities. Report No. 26 in GRCP Technical Report Series 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 As- ciation 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. This user's guide takes you through the steps on how to use both the PRED Databank & PopMap software. It also gives a detailed description of the PRED Bank data set. The Population, Resources, Environment & Development Databank (PRED Databank version 2.1) presents data series dealing with various aspects of population, the labour force, economic growth, agriculture, & natural resource use & their trends from 1961 to 1990. The PopMap Retrieval System (PopMap version 3.01), which accompanies the database, makes it possible to generate thematic maps of PRED Bank variables, to manipulate data & save selected data in a choice of data formats. To show the importance of stochastic processes in the change of gene frequencies, the authors discuss topics ranging from molecular evolution to two-locus problems in terms of diffusion models. Throughout their discussion, they come to grips with one of the most challenging problems in population genetics--the ways in which genetic variability is maintained in Mendelian populations. R.A. Fisher, J.B.S. Haldane, and Sewall Wright, in pioneering works, confirmed the usefulness of mathematical theory in population genetics. The synthesis their work achieved is recognized today as mathematical genetics, that branch of genetics whose aim is to investigate the laws governing the genetic structure of natural populations and, consequently, to clarify the mechanisms of evolution. For the benefit of population geneticists without advanced mathematical training, Professors Kimura and Ohta use verbal description rather than mathematical symbolism wherever practicable. A mathematical appendix is included. 55% OFF BOOKSTORES KETO DIET FOR BUSY PEOPLE - HARDCOVER THIS BOOK INCLUDES DELICIOUS KETO RECIPES KETOGENIC FOOD LIST DELICIOUS KETO RECIPE PYRAMIDE SCHEME BEAUTIFUL PICTURES BLANK RECIPES HOMEMADE BUY IT NOW and let your customers get addicted to this amazing BOOK This User’s Guide is a resource for investigators and stakeholders who develop and review observational comparative effectiveness research protocols. It explains how to (1) identify key considerations and best practices for research design; (2) build a protocol based on these standards and best practices; and (3) judge the adequacy and completeness of a protocol. Eleven chapters cover all aspects of research design, including: developing study objectives, defining and refining study questions, addressing the heterogeneity of treatment effect, characterizing exposure, selecting a comparator, defining and measuring outcomes, and identifying optimal

data sources. Checklists of guidance and key considerations for protocols are provided at the end of each chapter. The User’s Guide was created by researchers affiliated with AHRQ’s Effective Health Care Program, particularly those who participated in AHRQ’s DEcIDE (Developing Evidence to Inform Decisions About Effectiveness) program. Chapters were subject to multiple internal and external independent reviews. More more information, please consult the Agency website: www.effectivehealthcare.ahrq.gov) One of the greatest unmet challenges in conservation biology is the genetic management of fragmented populations of threatened animal and plant species. More than a million small, isolated, population fragments of threatened species are likely suffering inbreeding depression and loss of evolutionary potential, resulting in elevated extinction risks. Although these effects can often be reversed by re-establishing gene flow between population fragments, managers very rarely do this. On the contrary, genetic methods are used mainly to document genetic differentiation among populations, with most studies concluding that genetically differentiated populations should be managed separately, thereby isolating them yet further and dooming many to eventual extinction! Many small population fragments are going extinct principally for genetic reasons. Although the rapidly advancing field of molecular genetics is continually providing new tools to measure the extent of population fragmentation and its genetic consequences, adequate guidance on how to use these data for effective conservation is still lacking. This accessible, authoritative text is aimed at senior undergraduate and graduate students interested in conservation biology, conservation genetics, and wildlife management. It will also be of particular relevance to conservation practitioners and natural resource managers, as well as a broader academic audience of conservation biologists and evolutionary ecologists. Covers a new but essential development in the field of population sampling, namely inference in finite sampling. Offers some important topics not found in other texts on sampling such as the superpopulation approach and randomized response, nonresponse and resampling techniques. The 2009 edition of "Christ Our Life" for grades 1-8 maintains the tradition of teaching and reaching God's children. Written by the Sisters of Notre Dame, "Christ Our Life" continues to provide the thorough foundation of our Catholic faith for which the series has been known. Includes statistical tables and graphs. Gale Researcher Guide for: Sources of Population Data is selected from Gale's academic platform Gale Researcher. These study guides provide peer-reviewed articles that allow students early success in finding scholarly materials and to gain the confidence and vocabulary needed to pursue deeper research. The purpose of this manual is to provide an educational genetics resource for individuals, families, and health professionals in the New York - Mid-Atlantic region and increase awareness of specialty care in genetics. The manual begins with a basic introduction to genetics concepts, followed by a description of the different types and applications of genetic tests. It also provides information about diagnosis of genetic disease, family history, newborn screening, and genetic counseling. Resources are included to assist in patient care, patient and professional education, and identification of specialty genetics services within the New York - Mid-Atlantic region. At the end of each section, a list of references is provided for additional information. Appendices can be copied for reference and offered to patients. These take-home resources are critical to helping both providers and patients understand some of the basic concepts and applications of genetics and genomics. In the face of so many unprecedented changes in our environment, the pressure is on scientists to lead the way toward a more sustainable future. Written by a team of ecologists, Monitoring Animal Populations and Their Habitats: A Practitioner’s Guide provides a framework that natural resource managers and researchers can use to design monitoring programs that will benefit future generations by distilling the information needed to make informed decisions. In addition, this text is valuable for undergraduate- and graduate-level courses that are focused on monitoring animal populations. With the aid of more than 90 illustrations and a four-page color insert, this book offers practical guidance for the entire monitoring process, from incorporating stakeholder input and data collection, to data management, analysis, and reporting. It establishes

the basis for why, what, how, where, and when monitoring should be conducted; describes how to analyze and interpret the data; explains how to budget for monitoring efforts; and discusses how to assemble reports of use in decision-making. The book takes a multi-scaled and multi-taxa approach, focusing on monitoring vertebrate populations and upland habitats, but the recommendations and suggestions presented are applicable to a variety of monitoring programs. Lastly, the book explores the future of monitoring techniques, enabling researchers to better plan for the future of wildlife populations and their habitats. Monitoring Animal Populations and Their Habitats: A Practitioner's Guide furthers the goal of achieving a world in which biodiversity is allowed to evolve and flourish in the face of such uncertainties as climate change, invasive species proliferation, land use expansion, and population growth. In 2011 the World Bank—with funding from the Bill and Melinda Gates Foundation—launched the Global Findex database, the world's most comprehensive data set on how adults save, borrow, make payments, and manage risk. Drawing on survey data collected in collaboration with Gallup, Inc., the Global Findex database covers more than 140 economies around the world. The initial survey round was followed by a second one in 2014 and by a third in 2017. Compiled using nationally representative surveys of more than 150,000 adults age 15 and above in over 140 economies, The Global Findex Database 2017: Measuring Financial Inclusion and the Fintech Revolution includes updated indicators on access to and use of formal and informal financial services. It has additional data on the use of financial technology (or fintech), including the use of mobile phones and the Internet to conduct financial transactions. The data reveal opportunities to expand access to financial services among people who do not have an account—the unbanked—as well as to promote greater use of digital financial services among those who do have an account. The Global Findex database has become a mainstay of global efforts to promote financial inclusion. In addition to being widely cited by scholars and development practitioners, Global Findex data are used to track progress toward the World Bank goal of Universal Financial Access by 2020 and the United Nations Sustainable Development Goals. The database, the full text of the report, and the underlying country-level data for all figures—along with the questionnaire, the survey methodology, and other relevant materials—are available at www.worldbank.org/globalfindex. Comprehensive book to assist the primary care physician in the challenges of managing patients with neurological disorders. Provides the initial treatment, referral guidelines and continuing care for disorders covering the breadth of the clinical neurosciences. Guide to 1,179 species of endangered mammals with maps of their distribution. This book describes some of the key epidemiological principles, scientific approaches and quality assurance frameworks required to design and conduct biobank studies in various settings. Using examples from contemporary biobanks, the book addresses the design features and practical procedures needed in order to launch and manage biobank studies, including consent and regulatory approval, the organisation of field work, management of data and biological samples, follow-up and verification of disease outcomes, development of IT systems for data collection, quality assurance and study management. Over the last two decades, several large biobank studies have been initiated in different populations, intended to greatly enhance the development of precision medicine. Contemporary biobank studies are extremely large and complex, and involve several decades of follow-up. Such studies pose major challenges in terms of ensuring rapid recruitment, obtaining high-quality data, minimising loss to follow-up, reliably classifying disease outcomes, and optimising the use of the biological samples collected. In this regard, the key to success lies not in planning the perfect study, but in planning the most appropriate, reliable, sustainable and future-proof study given the practical constraints of available resources, time and capacity. The authors of this handbook are epidemiologists, clinicians, software engineers, and laboratory and data scientists with extensive experience in conducting large biobank studies. The eight chapters can be read separately or together, and provide readers with essential information on how to design, implement and manage these studies. The state-of-the-art, innovative and scalable approaches and methodologies

presented here are intended to stimulate the development of further population-based and hospital-based biobank studies in diverse populations. Offering a wealth of reliable information, The Oxford Guide to People & Places of the Bible provides more than 300 articles that cover everyone from Adam and Eve to Jesus Christ and everywhere from the Garden of Eden to Golgotha and Gethsemane. Readers will find fascinating, informative entries on virtually every major figure who walked across the biblical stage. Here are Hebrew Bible figures such as Cain and Abel, Noah and Methuselah, Abraham and Isaac, David and Goliath, Solomon and Sheba, Moses and Aaron, Naomi and Ruth, and Samson and Delilah. The New Testament is likewise well covered, with pieces on Peter and Paul, John the Baptist and Mary Magdalene, the apostles (Matthew, Mark, Luke, and John), Pontius Pilate and Judas Iscariot, and of course Jesus, Mary, and Joseph. Articles also define groups of people who figure in the Bible, such as Angels, Archangels, and Demons, the Magi, the Tribes of Israel, and Women. Entries on the significant places of the Bible, both ancient and modern, include kingdoms and countries (Egypt, Assyria, Mesopotamia) and cities (Bethlehem, Jerusalem, Sodom and Gomorrah), as well as geographical features such as the Sea of Galilee and Mount Hebron. The guide includes a detailed index for ease of use, and 14 pages of color maps, providing an accurate, detailed portrait of the biblical world. Here then is the first place to turn to find factual information on the people and places of Holy Scripture. Written by an international team of noted biblical experts, it is an essential addition to any family library as well as a useful, reliable resource for scholars and students.