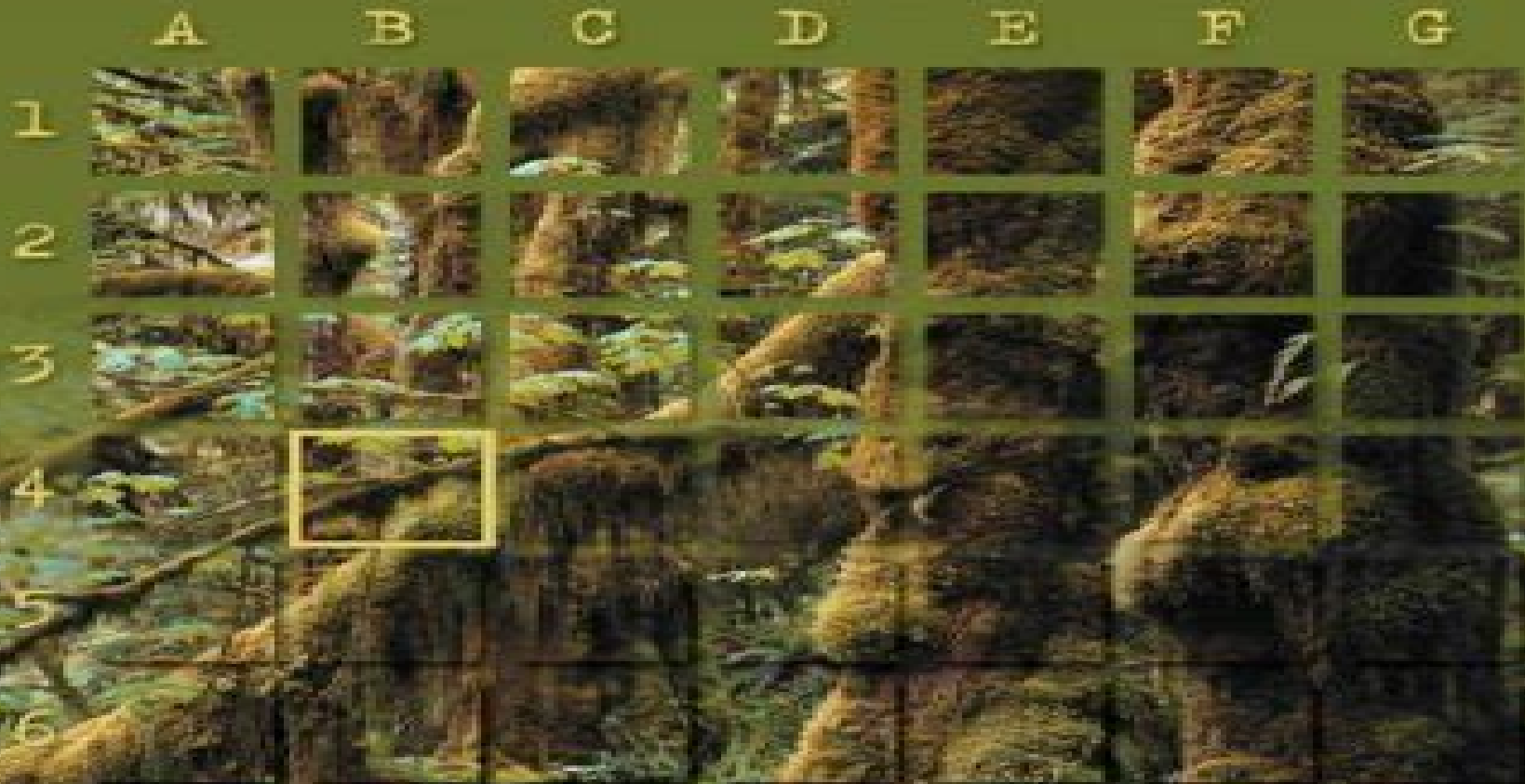


Spreadsheet Exercises in Ecology and Evolution

THERESE M. DONOVAN • CHARLES W. WELDEN



Spreadsheet Exercises In Ecology And Evolution

Richard Halliburton



Spreadsheet Exercises In Ecology And Evolution:

Spreadsheet Exercises in Ecology and Evolution Therese Marie Donovan, Charles Woodson Welden, 2002 The exercises in this unique book allow students to use spreadsheet programs such as Microsoft Excel to create working population models. The book contains basic spreadsheet exercises that explicate the concepts of statistical distributions, hypothesis testing, and power sampling techniques and Leslie matrices. It contains exercises for modeling such crucial factors as population growth, life histories, reproductive success, demographic stochasticity, Hardy Weinberg equilibrium, metapopulation dynamics, predator-prey interactions, Lotka-Volterra models, and many others. Building models using these exercises gives students hands-on information about what parameters are important in each model, how different parameters relate to each other, and how changing the parameters affects outcomes. The mystery of the mathematics dissolves as the spreadsheets produce tangible, graphic results. Each exercise grew from hands-on use in the authors' classrooms. Each begins with a list of objectives, background information that includes standard mathematical formulae, and annotated step-by-step instructions for using this information to create a working model. Students then examine how changing the parameters affects model outcomes and, through a set of guided questions, are challenged to develop their models further. In the process, they become proficient with many of the functions available on spreadsheet programs and learn to write and use complex but useful macros. Spreadsheet Exercises in Ecology and Evolution can be used independently as the basis of a course in quantitative ecology and its applications or as an invaluable supplement to undergraduate textbooks in ecology, population biology, evolution, and population genetics.

Carrion Ecology, Evolution, and Their Applications M. Eric Benbow, Jeffery K. Tomberlin, Aaron M. Tarone, 2025-07-17 The first edition of Carrion Ecology, Evolution, and Their Applications brought together multiple scientific disciplines to shed light on the importance of carrion within the context of ecology and evolutionary biology and through applications ranging from human mass disasters to habitat ecosystem conservation. This second edition builds upon this foundation to include a huge amount of new research consisting of 33 chapters, 9 brand new and the remaining 24 substantially updated and expanded. One of the most significant changes for this edition is the coverage of aquatic ecosystems, both freshwater and marine. The book is now represented by 73 authors from eight countries, incorporating more diverse perspectives and engagement into this multidisciplinary and expanding science. The resulting new edition showcases a broader scope of topics, geographic areas, ecosystems, and history of carrion ecology, evolution, and their applications for humanity. It provides the most comprehensive resource on carrion from all ecosystems of the world. The student, academic, and professional will find this book insightful, providing new insights for the fields of molecular ecology, microbiology, entomology, population biology, community and ecosystem ecology, as well as applications in forensics and human and environmental health.

Biological Invasions in Marine Ecosystems Gil Rilov, Jeffrey A. Crooks, 2008-11-12 Biological invasions are considered to be one of the greatest threats to the integrity of most ecosystems on earth. This volume explores

the current state of marine bioinvasions which have been growing at an exponential rate over recent decades Focusing on the ecological aspects of biological invasions it elucidates the different stages of an invasion process starting with uptake and transport through inoculation establishment and finally integration into new ecosystems Basic ecological concepts all in the context of bioinvasions are covered such as propagule pressure species interactions phenotypic plasticity and the importance of biodiversity The authors approach bioinvasions as hazards to the integrity of natural communities but also as a tool for better understanding fundamental ecological processes Important aspects of managing marine bioinvasions are also discussed as are many informative case studies from around the world Environmental Modeling Mike J.

Barnsley,2007-02-13 Increasingly used to represent climatic biogeochemical and ecological systems computer modeling has become an important tool that should be in every environmental professional s toolbox Environmental Modeling A Practical Introduction is just what it purports to be a practical introduction to the various methods techniques and skills required for computerized environmental modeling Exploring the broad arena of environmental modeling the book demonstrates how to represent an environmental problem in conceptual terms formalize the conceptual model using mathematical expressions convert the mathematical model into a program that can be run on a desktop or laptop computer and examine the results produced by the computational model Equally important the book imparts skills that allow you to develop implement and experiment with a range of computerized environmental models The emphasis is on active engagement in the modeling process rather than on passive learning about a suite of well established models The author takes a practical approach throughout one that does not get bogged down in the details of the underlying mathematics and that encourages learning through hands on experimentation He provides a set of software tools and data sets that you can use to work through the various examples and exercises presented in each chapter as well as presentational material and handouts for course tutors Comprehensive and up to date the book discusses how computational models can be used to represent environmental systems and illustrates how such models improve understanding of the ways in which environmental systems function

Population Genetics Matthew B. Hamilton,2011-09-23 This book aims to make population genetics approachable logical and easily understood To achieve these goals the book s design emphasizes well explained introductions to key principles and predictions These are augmented with case studies as well as illustrations along with introductions to classical hypotheses and debates Pedagogical features in the text include Interact boxes that guide readers step by step through computer simulations using public domain software Math boxes that fully explain mathematical derivations Methods boxes that give insight into the use of actual genetic data Numerous Problem boxes are integrated into the text to reinforce concepts as they are encountered Dedicated website at www.wiley.com/go/hamiltongenetics This text also offers a highly accessible introduction to coalescent theory the major conceptual advance in population genetics of the last two decades

Parameter Estimation for Animal Populations Larkin Powell,George Gale,2015 This book is a simple introduction to

the logic behind analyses and sampling design for mark recapture and survey efforts With a focus on the early user and beginner the book explains the complicated formulas and statistics that can be effectively used around the world in support of conservation efforts *A Voice in the Wilderness* Professor Joseph L Graves Jr.,2022-09-13 Why understanding evolution the most reviled branch of science can help us all from fighting pandemics to undoing racism Evolutionary science has long been regarded as conservative a tool for enforcing regressive ideas particularly about race and gender But in *A Voice in the Wilderness* evolutionary biologist Joseph L Graves Jr once styled as the Black Darwin argues that his field is essential to social justice He shows for example why biological races do not exist He dismantles recent work in human biodiversity seeking genes to explain the achievements of different ethnic groups He decimates homophobia sexism and classism as well As a pioneering Black biologist a leftist and a Christian Graves uses his personal story his journey from a child of Jim Crow to a major researcher and leader of his peers to rewrite his field *A Voice in the Wilderness* is a powerful work of scientific anti racism and a moving account of a trailblazing life *American Entomologist* ,2003 *Natural Areas Journal* ,2003

Official Meeting Program Ecological Society of America. Meeting,2002 **A Computational Approach to Statistical Arguments in Ecology and Evolution** George F. Estabrook,2011-09-29 Scientists need statistics Increasingly this is accomplished using computational approaches Freeing readers from the constraints mysterious formulas and sophisticated mathematics of classical statistics this book is ideal for researchers who want to take control of their own statistical arguments It demonstrates how to use spreadsheet macros to calculate the probability distribution predicted for any statistic by any hypothesis This enables readers to use anything that can be calculated or observed from their data as a test statistic and hypothesize any probabilistic mechanism that can generate data sets similar in structure to the one observed A wide range of natural examples drawn from ecology evolution anthropology palaeontology and related fields give valuable insights into the application of the described techniques while complete example macros and useful procedures demonstrate the methods in action and provide starting points for readers to use or modify in their own research **Heredity** ,1947 **The American Biology Teacher** ,2004 **Introduction to Population Genetics** Richard Halliburton,2004 Making the theory of population genetics relevant to readers this book explains the related mathematics with a logical organization It presents the quantitative aspects of population genetics and employs examples of human genetics medical evolution human evolution and endangered species For an introduction to and understanding of population genetics **Book Review Index Cumulation** Dana Ferguson,2005-09 Book Review Index provides quick access to reviews of books periodicals books on tape and electronic media representing a wide range of popular academic and professional interests The up to date coverage wide scope and inclusion of citations for both newly published and older materials make Book Review Index an exceptionally useful reference tool More than 600 publications are indexed including journals and national general interest publications and newspapers Book Review Index is available in a three issue subscription covering the current year or as an annual

cumulation covering the past year **Quantitative Ecotoxicology** Michael C. Newman, 2012-08-29 Quantitative Ecotoxicology Second Edition explores models and methods of quantitative ecotoxicology at progressively higher biological scales using worked examples and common software packages It complements the author's previous books Fundamentals of Ecotoxicology Third Edition and Ecotoxicology A Comprehensive Treatment Encouraging a more r Canadian Journal of Zoology ,2007 The British National Bibliography Arthur James Wells, 2004 American Book Publishing Record ,2002

Environmental Data Analysis Carsten Dormann, 2020-12-20 Environmental Data Analysis is an introductory statistics textbook for environmental science It covers descriptive inferential and predictive statistics centred on the Generalized Linear Model The key idea behind this book is to approach statistical analyses from the perspective of maximum likelihood essentially treating most analyses as multiple regression problems The reader will be introduced to statistical distributions early on and will learn to deploy models suitable for the data at hand which in environmental science are often not normally distributed To make the initially steep learning curve more manageable each statistical chapter is followed by a walk through in a corresponding R based how to chapter which reviews the theory and applies it to environmental data In this way a coherent and expandable foundation in parametric statistics is laid which can be expanded in advanced courses The content has been field tested in several years of courses on statistics for Environmental Science Geography and Forestry taught at the University of Freiburg

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