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R COMPANION FOR SAMPLING

DESIGN AND ANALYSIS, THIRD EDITION

CRC Press **The R Companion for Sampling: Design and Analysis, designed to be read alongside Sampling: Design and Analysis, Third Edition by Sharon L. Lohr (SDA; 2022, CRC Press), shows how to use functions in base R and contributed packages to perform calculations for the examples in SDA. No prior experience with R is needed. Chapter 1 tells you how to obtain R and RStudio, introduces basic features of the R statistical software environment, and helps you get started with analyzing data. Each subsequent chapter provides step-by-step guidance for working through the data examples in the corresponding chapter of SDA, with code, output, and interpretation. Tips and warnings help you develop good programming practices and avoid common survey data analysis errors. R features and functions are introduced as they are needed so you can see how each type of sample is selected and analyzed. Each chapter builds on the knowledge developed earlier for simpler designs; after finishing the book, you will know how to use R to select and analyze almost any type of probability sample. All R code and data sets used in this book are available online to help you develop your skills analyzing survey data from social and public opinion research, public health, crime, education, business, agriculture, and ecology.**

A FIRST COURSE IN DESIGN AND ANALYSIS OF EXPERIMENTS

W. H. Freeman **Oehlert's text is suitable for either a service course for non-statistics graduate students or for statistics majors. Unlike most texts for the one-term grad/upper level course on experimental design, Oehlert's new book offers a superb balance of both analysis and design, presenting three practical themes to students: • when to use various designs • how to analyze the results • how to recognize various design options Also, unlike other older texts, the book is fully oriented toward the use of statistical software in analyzing experiments.**

IMPACT EVALUATION IN PRACTICE, SECOND EDITION

World Bank Publications **The second edition of the Impact Evaluation in Practice handbook is a comprehensive and accessible introduction to impact evaluation for policy makers and development practitioners. First published in 2011, it has been used widely across the development and academic communities. The book incorporates real-world examples to present practical guidelines for designing and implementing impact evaluations. Readers will gain an understanding of impact evaluations and the best ways to use them to design evidence-based policies and programs. The updated version covers the newest techniques for evaluating programs and includes state-of-the-art implementation advice, as well as an expanded set of examples and case studies that draw on recent development challenges. It also includes new material on research ethics and partnerships to conduct impact evaluation. The handbook is divided into four sections: Part One discusses what to evaluate and why; Part Two presents the main impact evaluation methods; Part Three addresses how to manage impact evaluations; Part Four reviews impact evaluation sampling and data collection. Case studies illustrate different applications of impact evaluations. The book links to complementary instructional material available online, including an applied case as well as questions and answers. The updated second edition will be a valuable resource for the international development community, universities, and policy makers looking to build better evidence around what works in development.**

COMPLEX SURVEYS

A GUIDE TO ANALYSIS USING R

John Wiley & Sons **A complete guide to carrying out complex survey analysis usingR As survey analysis continues to serve as a core component ofsociological research, researchers are increasingly relying upondata gathered from complex surveys to carry out traditionalanalyses. Complex Surveys is a practical guide to theanalysis of this kind of data using R, the freely available anddownloadable statistical programming language. As creator of thespecific survey package for R, the author provides the**

ultimatepresentation of how to successfully use the software for analyzingdata from complex surveys while also utilizing the most currentdata from health and social sciences studies to demonstrate theapplication of survey research methods in these fields. The book begins with coverage of basic tools and topics withinsurvey analysis such as simple and stratified sampling, clustersampling, linear regression, and categorical data regression.Subsequent chapters delve into more technical aspects of complexsurvey analysis, including post-stratification, two-phase sampling,missing data, and causal inference. Throughout the book, anemphasis is placed on graphics, regression modeling, and two-phasedesigns. In addition, the author supplies a unique discussion ofepidemiological two-phase designs as well as probability-weightingfor causal inference. All of the book's examples and figures aregenerated using R, and a related Web site provides the R code thatallows readers to reproduce the presented content. Each chapterconcludes with exercises that vary in level of complexity, anddetailed appendices outline additional mathematical andcomputational descriptions to assist readers with comparing resultsfrom various software systems. Complex Surveys is an excellent book for courses onsampling and complex surveys at the upper-undergraduate andgraduate levels. It is also a practical reference guide for appliedstatisticians and practitioners in the social and health scienceswho use statistics in their everyday work.

THE RESEARCH IMAGINATION

AN INTRODUCTION TO QUALITATIVE AND QUANTITATIVE METHODS

Cambridge University Press **The idea that science is a blueprint for research, and imagination gives research its life and purpose inspired this comprehensive explanation of research methodology. The authors' decades of experience have revealed that research is a craft requiring judgment and creativity, not simply memorization and application of the rules of science. Whether one is conducting an intimate one-on-one interview or a large-scale examination of an entire society, human imagination and scientific principles of inquiry go hand in hand. To that end, this book emphasizes scientific method, but also acknowledges its critics. It covers a wide variety of data-collection techniques, but presents them as reinforcing rather than competing with one another, thus striking a balance between qualitative and quantitative methods. It is designed for students and instructors who want a comprehensive treatment of a variety of research techniques with special emphasis on qualitative approaches.**

ENTERTAINMENT SCIENCE

DATA ANALYTICS AND PRACTICAL THEORY FOR MOVIES, GAMES, BOOKS, AND MUSIC

Springer **The entertainment industry has long been dominated by legendary**

screenwriter William Goldman's "Nobody-Knows-Anything" mantra, which argues that success is the result of managerial intuition and instinct. This book builds the case that combining such intuition with data analytics and rigorous scholarly knowledge provides a source of sustainable competitive advantage – the same recipe for success that is behind the rise of firms such as Netflix and Spotify, but has also fueled Disney's recent success. Unlocking a large repertoire of scientific studies by business scholars and entertainment economists, the authors identify essential factors, mechanisms, and methods that help a new entertainment product succeed. The book thus offers a timely alternative to "Nobody-Knows" decision-making in the digital era: while coupling a good idea with smart data analytics and entertainment theory cannot guarantee a hit, it systematically and substantially increases the probability of success in the entertainment industry. Entertainment Science is poised to inspire fresh new thinking among managers, students of entertainment, and scholars alike. Thorsten Hennig-Thurau and Mark B. Houston – two of our finest scholars in the area of entertainment marketing – have produced a definitive research-based compendium that cuts across various branches of the arts to explain the phenomena that provide consumption experiences to capture the hearts and minds of audiences. Morris B. Holbrook, W. T. Dillard Professor Emeritus of Marketing, Columbia University Entertainment Science is a must-read for everyone working in the entertainment industry today, where the impact of digital and the use of big data can't be ignored anymore. Hennig-Thurau and Houston are the scientific frontrunners of knowledge that the industry urgently needs. Michael Kölmel, media entrepreneur and Honorary Professor of Media Economics at University of Leipzig Entertainment Science's winning combination of creativity, theory, and data analytics offers managers in the creative industries and beyond a novel, compelling, and comprehensive approach to support their decision-making. This ground-breaking book marks the dawn of a new Golden Age of fruitful conversation between entertainment scholars, managers, and artists. Allègre Hadida, Associate Professor in Strategy, University of Cambridge

OPEN SOURCE

TECHNOLOGY AND POLICY

Cambridge University Press From the Internet's infrastructure to operating systems like GNU/Linux, the open source movement comprises some of the greatest accomplishments in computing over the past quarter century. Its story embraces technological advances, unprecedented global collaboration, and remarkable tools for facilitating distributed development. The evolution of the Internet enabled an enormous expansion of open development, allowing developers to exchange information and ideas without regard to constraints of space, time, or national boundary. The movement has had widespread impact on

education and government, as well as historic cultural and commercial repercussions. Part I discusses key open source applications, platforms, and technologies used in open development. Part II explores social issues ranging from demographics and psychology to legal and economic matters. Part III discusses the Free Software Foundation, open source in the public sector (government and education), and future prospects.

CLINICAL INFORMATICS STUDY GUIDE

TEXT AND REVIEW

Springer **This books provides content that arms clinicians with the core knowledge and competencies necessary to be effective informatics leaders in health care organizations. The content is drawn from the areas recognized by the American Council on Graduate Medical Education (ACGME) as necessary to prepare physicians to become Board Certified in Clinical Informatics. Clinical informaticians transform health care by analyzing, designing, selecting, implementing, managing, and evaluating information and communication technologies (ICT) that enhance individual and population health outcomes, improve patient care processes, and strengthen the clinician-patient relationship. As the specialty grows, the content in this book covers areas useful to nurses, pharmacists, and information science graduate students in clinical/health informatics programs. These core competencies for clinical informatics are needed by all those who lead and manage ICT in health organizations, and there are likely to be future professional certifications that require the content in this text.**

TRANSFORMING LEARNING WITH MEANINGFUL TECHNOLOGIES

14TH EUROPEAN CONFERENCE ON TECHNOLOGY ENHANCED LEARNING, EC-TEL 2019, DELFT, THE NETHERLANDS, SEPTEMBER 16–19, 2019, PROCEEDINGS

Springer Nature **This book constitutes the proceedings of the 14th European Conference on Technology Enhanced Learning, EC-TEL 2019, held in Delft, The Netherlands, in September 2019. The 41 research papers and 50 demo and poster papers presented in this volume were carefully reviewed and selected from 149 submissions. The contributions reflect the debate around the role of and challenges for cutting-edge 21st century meaningful technologies and advances such as artificial intelligence and robots, augmented reality and ubiquitous computing technologies and at the same time connecting them to different pedagogical approaches, types of learning settings, and application domains that can benefit from such technologies.**

VETERINARY PSYCHOPHARMACOLOGY

John Wiley & Sons **Every day veterinarians in practice are asked to treat pets exhibiting problem behaviors. In the last several years pharmacologic treatments of behavior have made significant advances and can serve as a critical part of therapy. Veterinary Pscyhopharmacology is a complete source of current knowledge on the subject of pharmacologic behavior modification that veterinarians can turn to for the answers they need. Classification of disorders is eschewed in favor of in-depth explanations of pharmacologic options in inducing behavior changes. Special emphasis is given to explaining the underlying mechanism of pharmacologic agents used in therapy; thus, veterinarians will know not only which drugs to prescribe but why they should be prescribed and how they work. Veterinary behaviorists, their students and residents, veterinary practitioners of all levels, and veterinary students will find this book invaluable in providing information about their patients' behavior problems and the psychoactive medications that might help them.**

SAMPLING METHODOLOGIES WITH APPLICATIONS

Chapman & Hall/CRC **Sampling methods are integral to the design of surveys and experiments, to the validity of results, and thus to the study of statistics, social science, and a variety other disciplines that use statistical data. Yet most of the available texts on the subject are either quite advanced and theoretical or too applied, descriptive, and lacking statistical results. Sampling Methodologies with Applications offers a balanced, practical treatment of the techniques and applications of the commonly used procedures for sampling from finite populations. It keeps mathematics to a minimum, but does not avoid them entirely: it features the principle results within the text but provides their derivations in the Appendices to each chapter. In an easily followed, step-by-step presentation, the author motivates each topic with illustrations followed by examples and exercises. All of these are constructed from everyday, practical situations covering a wide variety of topics, from scholastic aptitude tests to healthcare expenditures and presidential elections. Why wade through advanced, theoretical tomes when what you need is straightforward, practical information? Why risk missing important statistical results often omitted from more basic texts? Sampling Methodologies with Applications has everything you need, presented clearly and logically for quick access to topics central to actual practice.**

TREATMENT OF CHRONIC PAIN BY INTERVENTIONAL APPROACHES

THE AMERICAN ACADEMY OF PAIN MEDICINE TEXTBOOK ON PATIENT MANAGEMENT

Springer **From reviews of Deer, eds., Comprehensive Treatment of Chronic Pain by Medical, Interventional, and Integrative Approaches:**

"Comprehensive Treatment of Chronic Pain by Medical, Interventional, and Integrative Approaches is a major textbook... [I]t should be a part of all departmental libraries and in the reference collection of pain fellows and pain practitioners. In fact, this text could be to pain as Miller is to general anesthesia." Journal of Neurosurgical Anesthesiology Edited by master clinician-experts appointed by the American Academy of Pain Medicine, this is a soft cover version of the Interventional sections of the acclaimed Deer, eds., Comprehensive Treatment of Chronic Pain by Medical, Interventional, and Integrative Approaches. It is intended as a primary reference for busy clinicians who seek up-to-date and authoritative information about interventional approaches to treating chronic pain. State-of-the-art coverage of full range of techniques: neural blockades, neurolysis blocks, and neurostimulation Review of clinically relevant anatomy and physiology "Key Points" preview contents of each chapter

SAS® SOFTWARE COMPANION FOR SAMPLING

DESIGN AND ANALYSIS, THIRD EDITION

CRC Press **The SAS® Software Companion for Sampling: Design and Analysis, designed to be read alongside Sampling: Design and Analysis, Third Edition by Sharon L. Lohr (SDA; 2022, CRC Press), shows how to use the survey selection and analysis procedures of SAS® software to perform calculations for the examples in SDA. No prior experience with SAS software is needed. Chapter 1 tells you how to access the software, introduces basic features, and helps you get started with analyzing data. Each subsequent chapter provides step-by-step guidance for working through the data examples in the corresponding chapter of SDA, with code, output, and interpretation. Tips and warnings help you develop good programming practices and avoid common survey data analysis errors. Features of the SAS software procedures are introduced as they are needed so you can see how each type of sample is selected and analyzed. Each chapter builds on the knowledge developed earlier for simpler designs; after finishing the book, you will know how to use SAS software to select and analyze almost any type of probability sample. All code is available on the book website and is easily adapted for your own survey data analyses. The website also contains all data sets from the examples and exercises in SDA to help you develop your skills through analyzing survey data from social and public opinion research, public health, crime, education, business, agriculture, and ecology**

USERS' GUIDES TO THE MEDICAL LITERATURE

A MANUAL FOR EVIDENCE-BASED CLINICAL PRACTICE, SECOND EDITION

McGraw Hill Professional **The #1 guide to the principles and clinical applications of evidence-based medicine has just gotten better! A Doody's**

Core Title ESSENTIAL PURCHASE for 2011! No other resource helps you to put key evidence-based medicine protocols into daily clinical practice better than Users' Guides to the Medical Literature. An instant classic in its first edition, this detailed, yet highly readable reference demystifies the statistical, analytical, and clinical principles of evidence-based medicine, giving you a hands-on, practical resource that no other text can match. Here, you'll learn how to distinguish solid medical evidence from poor medical evidence, devise the best search strategies for each clinical question, critically appraise the medical literature, and optimally tailor evidence-based medicine for each patient. The new second edition of this landmark resource is now completely revised and refreshed throughout, with expanded coverage of both basic and advanced issues in using evidence-based medicine in clinical practice. FEATURES: Completely revised and updated to reflect the enormous expansion in medical research and evidence-based resources since the first edition Innovative organization guides you from the fundamentals of using the medical literature to the more advanced strategies and skills for use in every day patient care situations Abundant and current real-world examples drawn from the medical literature are woven throughout, and include important related principles and pitfalls in using medical literature in patient care decisions Practical focus on the key issues in evidence-based practice: What are the results? Are the results valid? How to I apply to results to the care of my patients? More than 60 internationally recognized editors and contributors from the U.S., Canada, South America, Europe, and Asia -- the best of the best in the discipline NEW coverage on how to: --Avoid being misled by biased presentations of research findings --Interpret the significance of clinical trials that are discontinued early --Influence clinician behavior to improve patient care --Apply key strategies for teaching evidence-based medicine Also look for JAMAevidence.com, a new interactive database for the best practice of evidence based medicine.

THE MICROBIOME IN RHEUMATIC DISEASES AND INFECTION

Springer **This book discusses the role of the microbiome in rheumatic diseases and details its implications for patient treatment. Recently, with technological advances, there has been significant research into the microbiome. This has enabled us to more profoundly understand its role in our immune system maturation as well as the role played by microorganisms in autoimmunity and the deeply related rheumatic diseases. This book comprehensively explains the emerging microbiome research through the interrelationships of biomedical sciences, including: immunology, microbiology, bioinformatics, and, with special emphasis, the clinical aspect of rheumatology. It examines the interplay between infectious organisms and major autoimmune diseases, including rheumatoid arthritis, psoriatic arthritis, juvenile arthritis, systemic lupus erythematosus, and vasculitis, and explains how to apply that knowledge**

to diagnostic techniques and treatment decisions. The international team of expert authors provides insight into current therapies and future interventions specifically targeting the microbiota and explores the impact of our deeper understanding on enhancing personalized medicine. The Microbiome in Rheumatic Diseases and Infection is an essential resource for rheumatologists, pediatricians, internists, microbiologists, and critical care providers caring for children and adults with rheumatic diseases.

SAMPLING

DESIGN AND ANALYSIS

CRC Press **This edition is a reprint of the second edition published by Cengage Learning, Inc. Reprinted with permission. What is the unemployment rate? How many adults have high blood pressure? What is the total area of land planted with soybeans? Sampling: Design and Analysis tells you how to design and analyze surveys to answer these and other questions. This authoritative text, used as a standard reference by numerous survey organizations, teaches sampling using real data sets from social sciences, public opinion research, medicine, public health, economics, agriculture, ecology, and other fields. The book is accessible to students from a wide range of statistical backgrounds. By appropriate choice of sections, it can be used for a graduate class for statistics students or for a class with students from business, sociology, psychology, or biology. Readers should be familiar with concepts from an introductory statistics class including linear regression; optional sections contain the statistical theory, for readers who have studied mathematical statistics. Distinctive features include: More than 450 exercises. In each chapter, Introductory Exercises develop skills, Working with Data Exercises give practice with data from surveys, Working with Theory Exercises allow students to investigate statistical properties of estimators, and Projects and Activities Exercises integrate concepts. A solutions manual is available. An emphasis on survey design. Coverage of simple random, stratified, and cluster sampling; ratio estimation; constructing survey weights; jackknife and bootstrap; nonresponse; chi-squared tests and regression analysis. Graphing data from surveys. Computer code using SAS® software. Online supplements containing data sets, computer programs, and additional material. Sharon Lohr, the author of Measuring Crime: Behind the Statistics, has published widely about survey sampling and statistical methods for education, public policy, law, and crime. She has been recognized as Fellow of the American Statistical Association, elected member of the International Statistical Institute, and recipient of the Gertrude M. Cox Statistics Award and the Deming Lecturer Award. Formerly Dean's Distinguished Professor of Statistics at Arizona State University and a Vice President at Westat, she is now a freelance statistical consultant and writer. Visit her website at www.sharonlohr.com.**

APPLIED BAYESIAN MODELING AND CAUSAL INFERENCE FROM INCOMPLETE-DATA PERSPECTIVES

John Wiley & Sons **This book brings together a collection of articles on statistical methods relating to missing data analysis, including multiple imputation, propensity scores, instrumental variables, and Bayesian inference. Covering new research topics and real-world examples which do not feature in many standard texts. The book is dedicated to Professor Don Rubin (Harvard). Don Rubin has made fundamental contributions to the study of missing data. Key features of the book include: Comprehensive coverage of an imporant area for both research and applications. Adopts a pragmatic approach to describing a wide range of intermediate and advanced statistical techniques. Covers key topics such as multiple imputation, propensity scores, instrumental variables and Bayesian inference. Includes a number of applications from the social and health sciences. Edited and authored by highly respected researchers in the area.**

NURSE AS EDUCATOR

PRINCIPLES OF TEACHING AND LEARNING FOR NURSING PRACTICE

Jones & Bartlett Learning **Designed to teach nurses about the development, motivational, and sociocultural differences that affect teaching and learning, this text combines theoretical and pragmatic content in a balanced, complete style. --from publisher description.**

BUSINESS ETHICS AND VALUES

INDIVIDUAL, CORPORATE AND INTERNATIONAL PERSPECTIVES

Pearson Education **"Business Ethics and Values" introduces students to the complexities and principles of ethical issues by focusing on developing ethical awareness and the ability to argue business ethics matters. A proven resource, the second edition of this text continues to present a successful blend of concrete issues and academic theory, suitable for undergraduate and postgraduate students with or without practical experience of the world of organisations. It gives as much importance to individual conscience at work as it does to socially responsible behaviour at the corporate level and within the global business world. Hallmark features: Broad coverage of the many issues in this subject ensures that students see the whole picture. The use of real-world case studies and simulations helps to stimulate debate and appreciate the multi-faceted aspects of ethical arguments. New to this edition: New material on the ethics of e-communication, sustainability and the ethical impact of globalisation ensures that students are learning from the most up-to-date material available. Further analysis of Anglo-American approaches to corporate governance and their ethical underpinnings. Short test and assignment questions at the end of each chapter help students to**

consolidate their learning. More simulation exercises and activities give students the opportunity to reflect on their attitudes to this engaging subject. A well-developed supplements package to support tutors and students includes an instructor's manual, PowerPoint slides and a companion website. Colin Fisher is Professorof Managerial Ethics and Values, Nottingham Business School, Nottingham Trent University. Alan Lovell is Professor of Organisational Accountability and Head of the Department of Accounting, Finance & Economics, Nottingham Business School, Nottingham Trent University.

MANAGEMENT INFORMATION SYSTEMS

MANAGING THE DIGITAL FIRM

Pearson Educación **Management Information Systems provides comprehensive and integrative coverage of essential new technologies, information system applications, and their impact on business models and managerial decision-making in an exciting and interactive manner. The twelfth edition focuses on the major changes that have been made in information technology over the past two years, and includes new opening, closing, and Interactive Session cases.**

TELEMEDICINE

OVERVIEW AND APPLICATION IN PULMONARY, CRITICAL CARE, AND SLEEP MEDICINE

Springer Nature **This book provides an overview of key issues with regards to implementing telemedicine services as well as an in depth overview of telemedicine in pulmonary, critical care, and sleep medicine. Topics range from specific practices to program development. Telemedicine has experienced explosive growth in recent years and yet, implementing telemedicine solutions is complex with substantial regulatory, legal, financial, logistical, and intra-organization/intra-personal barriers that must be overcome. This book provides the necessary information and guidance to address those complex issues. This book is broadly divided into two parts 1) a primer on requisite steps before embarking on telemedicine service development and 2) specific applications and examples where telemedicine is successfully utilized to improve quality of care in pulmonary, critical care, and sleep medicine. The first part includes coverage of telemedicine and finance, regulatory and legal issues, and program development. The second part delves into specifics with information on ambulatory telemedicine programs, inpatient consultations, and tele-ICU programs. All chapters are written by interprofessional authors that are leaders in the field of telemedicine with extensive knowledge of diverse telemedicine programs and robust real-world experience on the topic. This is an ideal guide for telehealth program managers, and pulmonary, critical care, and sleep medicine professionals**

interested in improving their telehealth practice.

HANDBOOK OF RESEARCH ON EDUCATIONAL COMMUNICATIONS AND TECHNOLOGY

A PROJECT OF THE ASSOCIATION FOR EDUCATIONAL COMMUNICATIONS AND TECHNOLOGY

Routledge **First Published in 2008. Routledge is an imprint of Taylor & Francis, an informa company.**

THE GREAT LAKES WATER WARS

Island Press **The Great Lakes are the largest collection of fresh surface water on earth, and more than 40 million Americans and Canadians live in their basin. Will we divert water from the Great Lakes, causing them to end up like Central Asia's Aral Sea, which has lost 90 percent of its surface area and 75 percent of its volume since 1960? Or will we come to see that unregulated water withdrawals are ultimately catastrophic? Peter Annin writes a fast-paced account of the people and stories behind these upcoming battles. Destined to be the definitive story for the general public as well as policymakers, The Great Lakes Water Wars is a balanced, comprehensive look behind the scenes at the conflicts and compromises that are the past-and future-of this unique resource.**

SOCIAL INEQUALITY

FORMS, CAUSES, AND CONSEQUENCES

Routledge **A user-friendly introduction to social inequality. This text is a broad introduction to the many types of inequality– economics, status, political power, sex and gender, sexual orientation, race, and ethnicity– in U.S. society and in a global setting. The author provides a wide range of explanations for inequality and, using the latest research on the multiple impacts of inequality, surveys in detail the personal and social consequences of social inequality. Learning Goals Upon completing this book, readers will be able to: Understand that inequality is multidimensional Understand that it is essential to understand the explanations of the various forms of inequality in order to further a resolution to any inequality's undesirable consequences Understand the discussion of inequality in its broader, historical cultural and international context**

METHODS AND TECHNIQUES IN ETHNOBIOLOGY AND ETHNOECOLOGY

Humana Press **Ethnobiology and ethnoecology have become very popular in recent years. Particularly in the last 20 years, many manuals of methods have published the most classical approaches to the subject. There have been, however, many advances in research as a result of interaction with**

different disciplines, but also due to more recent results, new original and interesting questions. This handbook provides the current state of the art methods and techniques in ethnobiology and ethnoecology, and related fields. This new volume, besides bringing new and original aspects of what is found in the literature, fills some of the gaps in volume one by including the most systematic and extensive treatment of methods and techniques in qualitative research. Along with the various methods covered in the individual chapters, the handbook also includes an extensive bibliography that details the current literature in the field.

INTRODUCTION TO STATISTICS AND DATA ANALYSIS

Brooks/Cole **Roxy Peck, Chris Olsen and Jay Devore's new edition uses real data and attention-grabbing examples to introduce students to the study of statistical output and methods of data analysis. Based on the best-selling STATISTICS: THE EXPLORATION AND ANALYSIS OF DATA, Fifth Edition, this new INTRODUCTION TO STATISTICS AND DATA ANALYSIS, Second Edition integrates coverage of the graphing calculator and includes expanded coverage of probability. Traditional in structure yet modern in approach, this text guides students through an intuition-based learning process that stresses interpretation and communication of statistical information. Conceptual comprehension is cemented by the simplicity of notation--frequently substituting words for symbols. Simple notation helps students grasp concepts. Hands-on activities and Seeing Statistics applets in each chapter allow students to practice statistics firsthand.**

ACUTE HEART FAILURE

Springer Science & Business Media **For many years, there has been a great deal of work done on chronic congestive heart failure while acute heart failure has been considered a difficult to handle and hopeless syndrome. However, in recent years acute heart failure has become a growing area of study and this is the first book to cover extensively the diagnosis and management of this complex condition. The book reflects the considerable amounts of new data reported and many new concepts which have been proposed in the last 3-4 years looking at the epidemiology, diagnostic and treatment of acute heart failure.**

PRINCIPLES OF INFORMATION SYSTEMS

Cengage Learning **Now thoroughly streamlined and revised, PRINCIPLES OF INFORMATION SYSTEMS, Ninth Edition, retains the overall vision and framework that made the previous editions so popular while eliminating outdated topics and updating information, examples, and case studies. In just 600 pages, accomplished authors Ralph Stair and George Reynolds cover IS principles and their real-world applications using timely, current business examples and hands-on activities. Regardless of their majors, students can use this book to understand and practice IS principles so they**

can function more effectively as workers, managers, decision makers, and organizational leaders. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

PAEDIATRIC SURGERY

A TEXT FOR AFRICA

ACHIEVING PRODUCT RELIABILITY

A KEY TO BUSINESS SUCCESS

CRC Press **Are you buying a car or smartphone or dishwasher? We bet long-term, trouble-free operation (i.e., high reliability) is among the top three things you look for. Reliability problems can lead to everything from minor inconveniences to human disasters. Ensuring high reliability in designing and building manufactured products is principally an engineering challenge–but statistics plays a key role. Achieving Product Reliability explains in a non-technical manner how statistics is used in modern product reliability assurance. Features: Describes applications of statistics in reliability assurance in design, development, validation, manufacturing, and field tracking. Uses real-life examples to illustrate key statistical concepts such as the Weibull and lognormal distributions, hazard rate, and censored data. Demonstrates the use of graphical tools in such areas as accelerated testing, degradation data modeling, and repairable systems data analysis. Presents opportunities for profitably applying statistics in the era of Big Data and Industrial Internet of Things (IIoT) utilizing, for example, the instantaneous transmission of large quantities of field data. Whether you are an intellectually curious citizen, student, manager, budding reliability professional, or academician seeking practical applications, Achieving Product Reliability is a great starting point for a big-picture view of statistics in reliability assurance. The authors are world-renowned experts on this topic with extensive experience as company-wide statistical resources for a global conglomerate, consultants to business and government, and researchers of statistical methods for reliability applications.**

BAYESIAN STATISTICAL METHODS

CRC Press **Bayesian Statistical Methods provides data scientists with the foundational and computational tools needed to carry out a Bayesian analysis. This book focuses on Bayesian methods applied routinely in practice including multiple linear regression, mixed effects models and generalized linear models (GLM). The authors include many examples with complete R code and comparisons with analogous frequentist procedures. In addition to the basic concepts of Bayesian inferential methods, the book covers many general topics: Advice on selecting prior distributions**

Computational methods including Markov chain Monte Carlo (MCMC) Model-comparison and goodness-of-fit measures, including sensitivity to priors Frequentist properties of Bayesian methods Case studies covering advanced topics illustrate the flexibility of the Bayesian approach: Semiparametric regression Handling of missing data using predictive distributions Priors for high-dimensional regression models Computational techniques for large datasets Spatial data analysis The advanced topics are presented with sufficient conceptual depth that the reader will be able to carry out such analysis and argue the relative merits of Bayesian and classical methods. A repository of R code, motivating data sets, and complete data analyses are available on the book's website. Brian J. Reich, Associate Professor of Statistics at North Carolina State University, is currently the editor-in-chief of the Journal of Agricultural, Biological, and Environmental Statistics and was awarded the LeRoy & Elva Martin Teaching Award. Sujit K. Ghosh, Professor of Statistics at North Carolina State University, has over 22 years of research and teaching experience in conducting Bayesian analyses, received the Cavell Brownie mentoring award, and served as the Deputy Director at the Statistical and Applied Mathematical Sciences Institute.

SINGLE-CELL SEQUENCING AND METHYLATION

METHODS AND CLINICAL APPLICATIONS

Springer Nature **With the rapid development of biotechnologies, single-cell sequencing has become an important tool for understanding the molecular mechanisms of diseases, defining cellular heterogeneities and characteristics, and identifying intercellular communications and single-cell-based biomarkers. Providing a clear overview of the clinical applications, the book presents state-of-the-art information on immune cell function, cancer progression, infection, and inflammation gained from single-cell DNA or RNA sequencing. Furthermore, it explores the role of target gene methylation in the pathogenesis of diseases, with a focus on respiratory cancer, infection and chronic diseases. As such it is a valuable resource for clinical researchers and physicians, allowing them to refresh their knowledge and improve early diagnosis and therapy for patients.**

PSYCHOSOCIAL CARE OF END-STAGE ORGAN DISEASE AND TRANSPLANT PATIENTS

Springer **Th is book takes an integrated, evidence-based approach the psychiatricaspects of organ transplantation. Unlike any other text currently on the market, this title presents the core principles of transplant psychiatry through an organ-based structure that includes the heart, lungs, liver, GI organs, kidney, composite tissue, and other key areas of transplantation. Each section is divided into chapters discussing psychosocial, medical, and surgical considerations prior to and post-**

transplant, such as indications leading to a particular type of transplantation, medical course and complications aft er transplantation, psychiatric and psychosocial considerations before and aft er transplantation, history of each type of organ transplant, and any other special considerations. Th e text ends with special topics in care, including psychopharmacology, substance abuse, psychosocial evaluation of recipients and donors, ethical considerations, cross-cultural aspects, and building the transplant psychiatry practice. It includes excellent learning tools, including over 140 tables and figures for ease of use. Written by interdisciplinary experts, Psychosocial Care of End-Stage Disease and Transplant Patients is a valuable resource for students and medical professionals interested in psychiatry, psychology, psychosomatic medicine, transplant surgery, internists, hospital administrators, pharmacists, nurses, and social workers.

HANDBOOK OF DATABASE SECURITY

APPLICATIONS AND TRENDS

Springer Science & Business Media **Handbook of Database Security: Applications and Trends provides an up-to-date overview of data security models, techniques, and architectures in a variety of data management applications and settings. In addition to providing an overview of data security in different application settings, this book includes an outline for future research directions within the field. The book is designed for industry practitioners and researchers, and is also suitable for advanced-level students in computer science.**

A FIRST COURSE IN LINEAR MODEL THEORY

CRC Press **Thoroughly updated throughout, A First Course in Linear Model Theory, Second Edition is an intermediate-level statistics text that fills an important gap by presenting the theory of linear statistical models at a level appropriate for senior undergraduate or first-year graduate students. With an innovative approach, the authors introduce to students the mathematical and statistical concepts and tools that form a foundation for studying the theory and applications of both univariate and multivariate linear models. In addition to adding R functionality, this second edition features three new chapters and several sections on new topics that are extremely relevant to the current research in statistical methodology. Revised or expanded topics include linear fixed, random and mixed effects models, generalized linear models, Bayesian and hierarchical linear models, model selection, multiple comparisons, and regularized and robust regression. New to the Second Edition: Coverage of inference for linear models has been expanded into two chapters. Expanded coverage of multiple comparisons, random and mixed effects models, model selection, and missing data. A new chapter on generalized linear models (Chapter**

12). A new section on multivariate linear models in Chapter 13, and expanded coverage of the Bayesian linear models and longitudinal models. A new section on regularized regression in Chapter 14. Detailed data illustrations using R. The authors' fresh approach, methodical presentation, wealth of examples, use of R, and introduction to topics beyond the classical theory set this book apart from other texts on linear models. It forms a refreshing and invaluable first step in students' study of advanced linear models, generalized linear models, nonlinear models, and dynamic models.

OXIDATIVE STRESS AND CHRONIC DEGENERATIVE DISEASES

A ROLE FOR ANTIOXIDANTS

BoD – Books on Demand **This work responds to the need to find, in a sole document, the affect of oxidative stress at different levels, as well as treatment with antioxidants to revert and diminish the damage. Oxidative Stress and Chronic Degenerative Diseases - a Role for Antioxidants is written for health professionals by researchers at diverse educative institutions (Mexico, Brazil, USA, Spain, Australia, and Slovenia). I would like to underscore that of the 19 chapters, 14 are by Mexican researchers, which demonstrates the commitment of Mexican institutions to academic life and to the prevention and treatment of chronic degenerative diseases.**

TWO PHASE SAMPLING

Cambridge Scholars Publishing **The development of estimators of population parameters based on two-phase sampling schemes has seen a dramatic increase in the past decade. Various authors have developed estimators of population using either one or two auxiliary variables. The present volume is a comprehensive collection of estimators available in single and two phase sampling. The book covers estimators which utilize information on single, two and multiple auxiliary variables of both quantitative and qualitative nature. The estimators discussed in the text are based upon different mechanisms of the availability of auxiliary information, termed here as Full, Partial and No Information. Multivariate estimators in survey sampling are also discussed in the book. Two Phase Sampling will prove an invaluable point of reference for researchers working in the field of survey sampling in general and in the field of two-phase sampling in particular.**

QUALITY SPINE CARE

HEALTHCARE SYSTEMS, QUALITY REPORTING, AND RISK ADJUSTMENT

Springer **Quality reporting is a rapidly growing area. Each year, new regulations in the US from the Council of Medicare and Medicaid Services make quality reporting a larger factor in determining reimbursement practices. Quality metrics are common parts of European clinical practice. Value of care is a focus of all payers, with specific interest directed at**

assessing the quality of care provided by a given healthcare team. While there are many publications in this space, no text has sought to provide an overview of quality in spine care. Quality measurement and quality reporting are ever growing aspects of the healthcare environment. Quality assessment is valuable to all healthcare stakeholders: patients, physicians, facilities, and payers. Patients are drawn to facilities that provide high value care; public reporting systems and grading systems for hospitals offer one opinion with regard to "high quality care." Most physicians email inboxes are inundated with offers of recognition for being a "Top Doc" for a nominal fee. Some payers offer incentives to patients who chose to be treated at "Centers of Excellence" or similar facilities; the definition of "Excellence" may be unclear. There is little consensus on how to measure quality, how to incorporate patient and procedure factors and achieve accurate risk adjustment, and how to define value of care. Regardless of these challenges, regulatory efforts in the US, as well as numerous international efforts, make quality assessment and quality reporting an important part of physician behaviour. Physician and facility reimbursement for procedures are often tied to quality metrics. Spine procedures are costly, elective, and are a focus of many payer-based programs. Hence, spine care is often a focus of quality reporting efforts. This text summarizes the state of the art with regard to quality measurement, reporting, and value assessment in spine care. We will review quality reporting in the US and internationally. Chapters will outline how quality improvement efforts have achieved success in hospital systems. The reader will be provided with insights in how to achieve success incorporating quality metrics into spine care. Features: 1. Illustrates the state of the art in spine quality reporting: There is no text that thoroughly addresses quality assessment and quality reporting in spine care; there are, however, numerous articles in this space. This book provides a definitive text covering the state of the art for quality reporting in spine care and will be of value to the international orthopedic and neurosurgical spine community. 2. Provides insight on quality reporting in different healthcare systems: The text will allow for comparison of different quality reporting systems from different health care systems. This will provide practitioners with insight into the strengths and weaknesses of different approaches to quality reporting, and may drive improvement in quality assessment and reporting systems. A single text that features review of US, European, and Australia/Asian health care systems' quality reporting is novel and will be thought provoking for readers. 3. Describes the US and international Healthcare reimbursement systems: Practicing physicians are provided with little information and less insight into the vagaries of the US and other healthcare systems. The text will provide insight into code development, valuation, and how quality reporting affects physician reimbursement 4. Explains risk adjustment: Appropriate risk adjustment and assessing patient and procedure factors that may impact quality reporting are invaluable to accurate quality measurement. The text

will review risk adjustment, different approaches to risk assessment/mitigation, and provide physicians with insights into appropriate measures to capture in their clinical practices 5. Provides a foundation for improved quality assessment in spine care: While there are many disparate elements and differing approaches to capturing spine quality metrics, no definitive text has attempted to summarize these efforts in a single volume. By synthesizing these variable approaches, the reader may be provided with insights into superior approaches to quality assessment and a foundation will be provided for improving healthcare systems.

LEARNING TO LIVE WITH CRIME

AMERICAN CRIME NARRATIVE IN THE NEOCONSERVATIVE TURN

But how have American writers grappled with these changes? What happens when a journalist approaches the workings of organized crime not through its legendary Godfathers but through a workaday, low-level figure who informs on his mob? Why is it that interrogation scenes have become so central to prime-time police dramas of late? What is behind writers' recent fascination with "cold case" homicides, with private security, or with prisons?

SAMPLE SURVEYS: DESIGN, METHODS AND APPLICATIONS

Elsevier **This new handbook contains the most comprehensive account of sample surveys theory and practice to date. It is a second volume on sample surveys, with the goal of updating and extending the sampling volume published as volume 6 of the Handbook of Statistics in 1988. The present handbook is divided into two volumes (29A and 29B), with a total of 41 chapters, covering current developments in almost every aspect of sample surveys, with references to important contributions and available software. It can serve as a self contained guide to researchers and practitioners, with appropriate balance between theory and real life applications. Each of the two volumes is divided into three parts, with each part preceded by an introduction, summarizing the main developments in the areas covered in that part. Volume 29A deals with methods of sample selection and data processing, with the later including editing and imputation, handling of outliers and measurement errors, and methods of disclosure control. The volume contains also a large variety of applications in specialized areas such as household and business surveys, marketing research, opinion polls and censuses. Volume 29B is concerned with inference, distinguishing between design-based and model-based methods and focusing on specific problems such as small area estimation, analysis of longitudinal data, categorical data analysis and inference on distribution functions. The volume contains also chapters dealing with case-control studies, asymptotic properties of estimators and decision theoretic**

aspects. Comprehensive account of recent developments in sample survey theory and practice Discusses a wide variety of diverse applications Comprehensive bibliography