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This text presents a comprehensive treatment of basic statistical methods and their applications. It focuses on the analysis of variance and regression, but also addressing basic ideas in experimental design and count data. The book has four connecting themes: similarity of inferential procedures, balanced one-way analysis of variance, comparison of models, and checking assumptions. Most inferential procedures are based on identifying a scalar parameter of interest, estimating that parameter, obtaining the standard error of the estimate, and identifying the appropriate reference distribution. Given these items, the inferential procedures are identical for various parameters. Balanced one-way analysis of variance has a simple, intuitive interpretation in terms of comparing the sample variance of the group means with the mean of the sample variance for each group. All balanced analysis of variance problems are considered in terms of computing sample variances for various group means. Comparing different models provides a structure for examining both balanced and unbalanced analysis of variance problems and regression problems. Checking assumptions is presented as a crucial part of every statistical analysis. Examples using real data from a wide variety of fields are used to motivate theory. Christensen consistently examines residual plots and presents alternative analyses using different transformation and case deletions. Detailed examination of interactions, three factor analysis of variance, and a split-plot design with four factors are included. The numerous exercises emphasize analysis of real data. Senior undergraduate and graduate students in statistics and graduate students in other disciplines using analysis of variance, design of experiments, or regression analysis will find this book useful.

Statistical Power Analysis is a nontechnical guide to power analysis in research planning that provides users of applied statistics with the tools they need for more effective analysis. The Second Edition includes: \* a chapter covering power analysis in set correlation and multivariate methods; \* a chapter considering effect size, psychometric reliability, and the efficacy of "qualifying" dependent variables and; \* expanded power and sample size tables for multiple regression/correlation.

Amstat News asked three review editors to rate their topfive favorite books in the September 2003 issue. Methods ofMultivariate Analysis was among those chosen. When measuring several variables on a complex experimental unit,it is often necessary to analyze the variables simultaneously,rather than isolate them and consider them individually.Multivariate analysis enables researchers to explore the jointperformance of such variables and to determine the effect of eachvariable in the presence of the others. The Second Edition of AlvinRencher's Methods of Multivariate Analysis provides studentsof all statistical backgrounds with both the fundamental and moresophisticated skills necessary to master the discipline. To illustrate multivariate applications, the author providesexamples and exercises based on fifty-nine real data sets from awide variety of scientific fields. Rencher takes a "methods"approach to his subject, with an emphasis on how students andpractitioners can employ multivariate analysis in real-lifesituations. The Second Edition contains revised and updatedchapters from the critically acclaimed First Edition as well asbrand-new chapters on: Cluster analysis Multidimensional scaling Correspondence analysis Biplots Each chapter contains exercises, with corresponding answers andhints in the appendix, providing students the opportunity to testand extend their understanding of the subject. Methods ofMultivariate Analysis provides an authoritative reference forstatistics students as well as for practicing scientists andclinicians.

This book provides an introduction to turbulence in vortex systems, and to turbulence theory for incompressible flow described in terms of the vorticity field. It is the author's hope that by the end of the book the reader will believe that these subjects are identical, and constitute a special case of fairly standard statistical mechanics, with both equilibrium and non-equilibrium aspects. The author's main goal is to relate turbulence to statistical mechanics. The book is organized as follows: the first three chapters constitute a fairly standard introduction to homogeneous turbulence in incompressible flow; a quick review of fluid mechanics; a summary of the appropriate Fourier theory; a summary of Kolmogorov's theory of the inertial range. The next four chapters present the statistical theory of vortex notion, and the vortex dynamics of turbulence. The book ends with the major conclusion that turbulence can no longer be viewed as incomprehensible. This book will be appropriate for professionals in the fields of applied mathematics, mechanical engineering, or physics, as well as graduate students in these noted areas.

This book investigates the complex relationship between funerary treatment and wider social dynamics through a contextual analysis of human skeletal remains and associated mortuary data from Voudeni, an important Mycenaean (1400-1050 BC) chamber tomb cemetery in Achaea, Greece. Voudeni is one of the most significant sites of Achaea, thoroughly investigated under the direction of the former Ephor of Antiquities, Dr Lazaros Kolonas. Over 60 chamber tombs have been excavated (Late Helladic IIB to IIIC periods), yielding an unprecedented wealth of biocultural information. This study explores the post-mortem treatment of the body, through a novel interpretive approach that transcends unproductive cross-disciplinary divisions. This biosocial approach integrates traditional archaeology, current reflections in mortuary archaeological theory and cutting-edge bioarchaeological methods, primarily focused on funerary taphonomy and archaeoethanatology of commingled skeletal assemblages. The author proposes that the most effective route to explore the social dimensions of mortuary data is through an emic understanding of historically situated actions and experiences, both of the living actors, the mourners, and of the dead themselves. Human skeletal remains are used as the primary strand of evidence, both as the object of the acts of the living and the subject of their own lived experiences. The topic is explored in successive stages: a) theoretical and methodological framework, b) detailed taphonomic analysis and osteological results of 20 tombs, c) multivariate analysis of bio-cultural data across socio-temporal parameters (with special emphasis on the distinction between the palatial LHIIIA-B and the transitional post-palatial LHIIIC period), and d) final synthesis, aiming to questions pertaining to changing social conditions in Achaea and key issues of current Mycenaean mortuary research. These include: tomb re-use; form, diversity, sequence and frequency of mortuary activities; mortality profiles; differential inclusion, visibility and funerary treatment of different groups/identities; changes in treatment of the dead body, reflecting shifts in notions of the self and social relationships. The results shed new light to social developments in Mycenaean Achaea, showing that the complex interaction between changing social conditions and mortuary practice is often reflected in subtle, yet meaningful, shifts of emphasis in the post-mortem treatment of bodies and bones, rather than in blatant radical changes.

A second edition of the easy-to-use standard text guiding biomedical researchers in the use of advanced statistical methods.

The recording and analysis of food data are becoming increasingly sophisticated. Consequently, the food scientist inindustry or at study faces the task of using and understandingstatistical methods. Statistics is often viewed as a difficultsubject and is often avoided because of its complexity and a lackof specific application to the requirements of food science. Thissituation is changing – there is now much material onmultivariate applications for the more advanced reader, but a caseexists for a univariate approach aimed at thenon-statistician. This second edition of Statistical Methods for Food Scienceprovides a source text on accessible statistical procedures for thefood scientist, and is aimed at professionals and students in foodlaboratories where analytical, instrumental and sensory data aregathered and require some form of summary and analysis beforeinterpretation. It is suitable for the food analyst, the sensoryscientist and the product developer, and others who work infood-related disciplines involving consumer survey investigationswill also find many sections of use. There is an emphasis on a ' hands-on ' approach, and worked examples using computersoftware packages and the minimum of mathematical formulae areincluded. The book is based on the experience and practice of ascientist engaged for many years in research and teaching ofanalytical and sensory food science at undergraduate andpost-graduate level. This revised and updated second edition is accompanied by a newcompanion website giving the reader access to the datasets andExcel spreadsheets featured in the book. Check it out now byvisiting ahref="http://www.wiley.com/go/bower/statistical"www.wiley.com/go/bower/statistical/a orby scanning the QR code below.

The Basic Practice of Statistics has become a bestselling textbook by focusing on how statistics are gathered, analyzed, and applied to real problems and situations—and by confronting student anxieties about the course's relevance and difficulties head on. With David Moore's pioneering "data analysis" approach (emphasizing statistical thinking over computation), engaging narrative and case studies, current problems and exercises, and an accessible level of mathematics, there is no more effective textbook for showing students what working statisticians do and what accurate interpretations of data can reveal about the world we live in. In the new edition, you will once again see how everything fits together. As always, Moore's text offers balanced content, beginning with data analysis, then covering probability and inference in the context of statistics as a whole. It provides a wealth of opportunities for students to work with data from a wide range of disciplines and real-world settings, emphasizing the big ideas of statistics in the context of learning specific skills used by professional statisticians. Thoroughly updated throughout, the new edition offers new content, features, cases, data sources, and exercises, plus new media support for instructors and students—including the latest version of the widely-adopted StatsPortal. The full picture of the contemporary practice of statistics has never been so captivantly presented to an uninitiated audience.

A timely and applied approach to the newly discovered methods and applications of U-statistics Built on years of collaborative research and academic experience, Modern Applied U-Statistics successfully presents a thorough introduction to the theory of U-statistics using in-depth examples and applications that address contemporary areas of study including biomedical and psychosocial research. Utilizing a "learn by example" approach, this book provides an accessible, yet in-depth, treatment of U-statistics, as well as addresses key concepts in asymptotic theory by integrating translational and cross-disciplinary research. The authors begin with an introduction of the essential and theoretical foundations of U-statistics such as the notion of convergence in probability and distribution, basic convergence results, stochastic Os, inference theory, generalized estimating equations, as well as the definition and asymptotic properties of U-statistics. With an emphasis on nonparametric applications when and where applicable, the authors then build upon this established foundation in order to equip readers with the knowledge needed to understand the modern-day extensions of U-statistics that are explored in subsequent chapters. Additional topical coverage includes: Longitudinal data modeling with missing data Parametric and distribution-free mixed-effect and structural equation models A new multi-response based regression framework for non-parametric statistics such as the product moment correlation, Kendall's tau, and Mann-Whitney-Wilcoxon rank tests A new class of U-statistic-based estimating equations (UBEE) for dependent responses Motivating examples, in-depth illustrations of statistical and model-building concepts, and an extensive discussion of longitudinal study designs strengthen the real-world utility and comprehension of this book. An accompanying Web site features SAS? and S-Plus? program codes, software applications, and additional study data. Modern Applied U-Statistics accommodates second- and third-year students of biostatistics at the graduate level and also serves as an excellent self-study for practitioners in the fields of bioinformatics and psychosocial research.

This book explores the interdisciplinary and transdisciplinary fields of energy systems, occupant behavior, thermal comfort, air quality and economic modelling across levels of building, communities and cities, through various data analytical approaches. It highlights the complex interplay of heating/cooling, ventilation and power systems in different processes, such as design, renovation and operation, for buildings, communities and cities. Methods from classical statistics, machine learning and artificial intelligence are applied into analyses for different building/urban components and systems. Knowledge from this book assists to accelerate sustainability of the society, which would contribute to a prospective improvement through data analysis in the liveability of both built and urban environment. This book targets a broad readership with specific experience and knowledge in data analysis, energy system, built environment and urban planning. As such, it appeals to researchers, graduate students, data scientists, engineers, consultants, urban scientists, investors and policymakers, with interests in energy flexibility, building/city resilience and climate neutrality.