

APPLIED MULTIVARIATE STATISTICS FOR THE SOCIAL SCIENCES

KEENAN A. PITUCH & JAMES P. STEVENS



SIXTH EDITION

ANALYSES WITH SAS AND IBM'S SPSS



Applied Multivariate Statistics Social Sciences

James P. Stevens



Applied Multivariate Statistics Social Sciences:

Applied Multivariate Statistics for the Social Sciences James Paul Stevens, 2009 Conceptual approach to multivariate statistical methods tailored for social science researchers and students The book emphasizes understanding rather than proving results providing practical examples annotated SPSS and SAS outputs and guidelines for data checking and assumption assessment The new edition introduces chapters on Hierarchical Linear Modeling and Structural Equation Modeling expanded discussions on repeated measures and log linear analysis and recent journal article exercises to demonstrate real world applications *Applied Multivariate Statistics for the Social Sciences* Keenan A. Pituch, James P. Stevens, 2015-12-07 Now in its 6th edition the authoritative textbook *Applied Multivariate Statistics for the Social Sciences* continues to provide advanced students with a practical and conceptual understanding of statistical procedures through examples and data sets from actual research studies With the added expertise of co author Keenan Pituch University of Texas Austin this 6th edition retains many key features of the previous editions including its breadth and depth of coverage a review chapter on matrix algebra applied coverage of MANOVA and emphasis on statistical power In this new edition the authors continue to provide practical guidelines for checking the data assessing assumptions interpreting and reporting the results to help students analyze data from their own research confidently and professionally Features new to this edition include NEW chapter on Logistic Regression Ch 11 that helps readers understand and use this very flexible and widely used procedure NEW chapter on Multivariate Multilevel Modeling Ch 14 that helps readers understand the benefits of this newer procedure and how it can be used in conventional and multilevel settings NEW Example Results Section write ups that illustrate how results should be presented in research papers and journal articles NEW coverage of missing data Ch 1 to help students understand and address problems associated with incomplete data Completely re written chapters on Exploratory Factor Analysis Ch 9 Hierarchical Linear Modeling Ch 13 and Structural Equation Modeling Ch 16 with increased focus on understanding models and interpreting results NEW analysis summaries inclusion of more syntax explanations and reduction in the number of SPSS SAS dialogue boxes to guide students through data analysis in a more streamlined and direct approach Updated syntax to reflect newest versions of IBM SPSS 21 SAS 9.3 A free online resources site at www.routledge.com/9780415836661 with data sets and syntax from the text additional data sets and instructor's resources including PowerPoint lecture slides for select chapters a conversion guide for 5th edition adopters and answers to exercises Ideal for advanced graduate level courses in education psychology and other social sciences in which multivariate statistics advanced statistics or quantitative techniques courses are taught this book also appeals to practicing researchers as a valuable reference Pre requisites include a course on factorial ANOVA and covariance however a working knowledge of matrix algebra is not assumed *Applied Multivariate Statistics for the Social Sciences* James Stevens, 1996 Of Important Points Two Group Multivariate Analysis Of Variance Four Statistical Reasons for Preferring a Multivariate Analysis The Multivariate

Test Statistic as a Generalization of Univariate t Numerical Calculations for a Two Group Problem Three Post Hoc Procedures SAS and SPSS Control Lines for Sample Problem and Selected Printout Multivariate Significance but No Univariate Significance Multivariate Regression Analysis for the Sample Problem Power Analysis Ways of Improving Power Power Estimation on SPSS MANOVA Multivariate Estimation of Power K Group Manova A Priori And Post Hoc Procedures Multivariate Regression Analysis for a Sample Problem Traditional Multivariate Analysis of Variance Multivariate Analysis of Variance for Sample Data Post Hoc Procedures The Tukey Procedure Planned Comparisons Test Statistics for Planned Comparisons Multivariate Planned Comparisons on SPSS MANOVA Correlated Contrasts Studies Using Multivariate Planned Comparisons Stepdown Analysis Other Multivariate Test Statistics How Many Dependent Variables for a MANOVA Power Analysis A Priori Determination of Sample Size Novinec 1977 Data for Multivariate Analysis of Variance Presented in Tables 5.3 and 5.4 Assumptions In Manova ANOVA and MANOVA Assumptions Independence Assumption What Should Be Done With Correlated Observations Normality Assumption Multivariate Normality Assessing Univariate Normality Homogeneity of Variance Assumption

Applied Multivariate Statistics for the Social Sciences James Paul Stevens, 2001 This best selling text is written for those who use rather than develop advanced statistical methods Dr Stevens focuses on a conceptual understanding of the material rather than proving results Helpful narrative and numerous examples enhance understanding and a chapter on matrix algebra serves as a review Printouts from SPSS and SAS with annotations indicate what the numbers mean and encourage interpretation of the results In addition to demonstrating how to use the packages effectively the author stresses the importance of checking the data assessing the assumptions and ensuring adequate sample size by providing guidelines so that the results can be generalized The new edition features a CD ROM with the data sets and many new exercises Ideal for courses on advanced or multivariate statistics found in psychology education and business departments the book also appeals to practicing researchers with little or no training in multivariate methods Prerequisites include a course on factorial analysis of variance It does not assume a working knowledge of matrix algebra

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Applied Multivariate Statistics for the Social Sciences Stevens, 1995 This successful text includes coverage of both exploratory and confirmatory factor analysis plus illustrations of LISREL and EQS the EXAMINE procedure from SPSSX terrific for

exploring data a new section on the doubly multivariate problem in which subjects are measured on several dependent outcome variables at each point in time or for each treatment condition and added exercises on categorical data analysis and the answers for the more difficult problems There is a 3 5 disk free to those adopting the text of all data sets in the book along with several large data sets **Applied Multivariate Statistical Analysis** Wolfgang Karl Härdle, Léopold Simar, 2015-02-26 Focusing on high dimensional applications this 4th edition presents the tools and concepts used in multivariate data analysis in a style that is also accessible for non mathematicians and practitioners All chapters include practical exercises that highlight applications in different multivariate data analysis fields All of the examples involve high to ultra high dimensions and represent a number of major fields in big data analysis The fourth edition of this book on Applied Multivariate Statistical Analysis offers the following new features A new chapter on Variable Selection Lasso SCAD and Elastic Net All exercises are supplemented by R and MATLAB code that can be found on www.quantlet.de The practical exercises include solutions that can be found in Härdle W and Hlavka Z **Multivariate Statistics Exercises and Solutions** Springer Verlag Heidelberg **Applied Multivariate Statistics for the Social Sciences, Fifth Edition** James P. Stevens, 2012-11-12 This best selling text is written for those who use rather than develop statistical methods Dr Stevens focuses on a conceptual understanding of the material rather than on proving results Helpful narrative and numerous examples enhance understanding and a chapter on matrix algebra serves as a review Annotated printouts from SPSS and SAS indicate what the numbers mean and encourage interpretation of the results In addition to demonstrating how to use these packages the author stresses the importance of checking the data assessing the assumptions and ensuring adequate sample size by providing guidelines so that the results can be generalized The book is noted for its extensive applied coverage of MANOVA its emphasis on statistical power and numerous exercises including answers to half The new edition features New chapters on Hierarchical Linear Modeling Ch 15 and Structural Equation Modeling Ch 16 New exercises that feature recent journal articles to demonstrate the actual use of multiple regression Ch 3 MANOVA Ch 5 and repeated measures Ch 13 A new appendix on the analysis of correlated observations Ch 6 Expanded discussions on obtaining non orthogonal contrasts in repeated measures designs with SPSS and how to make the identification of cell ID easier in log linear analysis in 4 or 5 way designs Updated versions of SPSS 15 0 and SAS 8 0 are used throughout the text and introduced in chapter 1 A book website with data sets and more Ideal for courses on multivariate statistics found in psychology education sociology and business departments the book also appeals to practicing researchers with little or no training in multivariate methods Prerequisites include a course on factorial ANOVA and covariance Working knowledge of matrix algebra is not assumed **Applied Multivariate Statistics for the Social Sciences** James P. Stevens, 1988-01 This book was written for those who will be using rather than developing advanced statistical methods It focuses on a conceptual understanding of the material rather than proving results It is a graduate level textbook with abundant examples **Applied**

Multivariate Statistical Concepts Debbie L. Hahs-Vaughn, 2024-10-29 This second edition of Applied Multivariate Statistical Concepts covers the classic and cutting edge multivariate techniques used in today's research. Through clear writing and engaging pedagogy and examples using real data, Hahs-Vaughn walks students through the most used methods to learn why and how to apply each technique. A conceptual approach with a higher than usual text-to-formula ratio helps readers master key concepts so they can implement and interpret results generated by today's sophisticated software. Additional features include examples using real data from the social sciences, templates for writing research questions and results that provide manuscript-ready models, step-by-step instructions on using R and SPSS statistical software with screenshots and annotated output, clear coverage of assumptions including how to test them and the effects of their violation, and conceptual, computational, and interpretative example problems that mirror the real-world problems students encounter in their studies and careers. This edition features expanded coverage of topics such as propensity score analysis, path analysis, and confirmatory factor analysis, and centering/moderation effects and power as related to multilevel modelling. New topics are introduced such as addressing missing data and latent class analysis, while each chapter features an introduction to using R statistical software. This textbook is ideal for courses on multivariate statistics, analysis, design, advanced statistics, and quantitative techniques, as well as for graduate students broadly in social sciences, education, and behavioral sciences. It also appeals to researchers with no training in multivariate methods.

Handbook of Applied Multivariate Statistics and Mathematical Modeling Howard E.A. Tinsley, Steven D. Brown, 2000-05-22 Multivariate statistics and mathematical models provide flexible and powerful tools essential in most disciplines. Nevertheless, many practicing researchers lack an adequate knowledge of these techniques or did once know the techniques but have not been able to keep abreast of new developments. The Handbook of Applied Multivariate Statistics and Mathematical Modeling explains the appropriate uses of multivariate procedures and mathematical modeling techniques and prescribes practices that enable applied researchers to use these procedures effectively without needing to concern themselves with the mathematical basis. The Handbook emphasizes using models and statistics as tools. The objective of the book is to inform readers about which tool to use to accomplish which task. Each chapter begins with a discussion of what kinds of questions a particular technique can and cannot answer. As multivariate statistics and modeling techniques are useful across disciplines, these examples include issues of concern in biological and social sciences as well as the humanities.

Handbook of Research Design and Social Measurement Delbert C. Miller, Neil J. Salkind, 2002-01-16 If a student researcher had only one handbook on their bookshelf, Miller and Salkind's Handbook would certainly have to be it. With the updated material, the addition of the section on ethical issues, which is so well done that I'm recommending it to the departmental representative to the university IRB, and a new Part 4 on Qualitative Methods, the new Handbook is an indispensable resource for researchers. Dan Cover, Department of Sociology, Furman University. I have observed that most instructors want to teach methodology their way to imbue the course with their own

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organized table of contents with four levels of headings and for the first time in the history of the book a comprehensive index

Applied Multivariate Statistics in Geohydrology and Related Sciences Charles E. Brown, 2012-12-06 It has been evident from many years of research work in the geohydrologic sciences that a summary of relevant past work present work and needed future work in multivariate statistics with geohydrologic applications is not only desirable but is necessary This book is intended to serve a broad scientific audience but more specifically is geared toward scientists doing studies in geohydrology and related geo sciences Its objective is to address both introductory and advanced concepts and applications of the multivariate procedures in use today Some of the procedures are classical in scope but others are on the forefront of statistical science and have received limited use in geohydrology or related sciences The past three decades have seen a significant jump in the application of new research methodologies that focus on analyzing large databases With more general applications being developed by statisticians in various disciplines multivariate quantitative procedures are evolving for better scientific application at a rapid rate and now provide for quick and informative analyses of large datasets The procedures include a family of statistical research methods that are alternatively called multivariate analysis or multivariate statistical methods

The Reviewer's Guide to Quantitative Methods in the Social Sciences Gregory R. Hancock, Ralph O. Mueller, Laura M. Stapleton, 2010-04-26 Designed for reviewers of research manuscripts and proposals in the social and behavioral sciences and beyond this title includes chapters that address traditional and emerging quantitative methods of data analysis

Applied Multivariate Statistical Analysis (Classic Version) Richard A. Johnson, Dean W. Wichern, 2018-03-18 This title is part of the Pearson Modern Classics series Pearson Modern Classics are acclaimed titles at a value price Please visit www.pearsonhighered.com/mathclassics series for a complete list of titles For courses in Multivariate Statistics Marketing Research Intermediate Business Statistics Statistics in Education and graduate level courses in Experimental Design and Statistics Appropriate for experimental scientists in a variety of disciplines this market leading text offers a readable introduction to the statistical analysis of multivariate observations Its primary goal is to impart the knowledge necessary to make proper interpretations and select appropriate techniques for analyzing multivariate data Ideal for a junior senior or graduate level course that explores the statistical methods for describing and analyzing multivariate data the text assumes two or more statistics courses as a prerequisite

Applied Multivariate Research Lawrence S. Meyers, Glenn Gamst, A.J. Guarino, 2006 Multivariate designs were once the province of the very few exalted researchers who understood the underlying advanced mathematics Today through the sophistication of statistical software packages such as SPSS virtually all graduate students across the social and behavioural sciences are exposed to the complex multivariate statistical techniques without having to learn the mathematical computations needed to acquire the data output These students in psychology education political science etc will never be statisticians and appropriately so their preparation and coursework reflects less of an emphasis on the mathematical complexities of multivariate statistics and more on the

analysis and the interpretation of the methods themselves and the actual data output This book provides full coverage of the wide range of multivariate topics in a conceptual rather than mathematical approach The author gears toward the needs level of sophistication and interest in multivariate methodology of students in applied areas that need to focus on design and interpretation rather than the intricacies of specific computations The book includes Coverage of the most widely used multivariate designs multiple regression exploratory factor analysis MANOVA and structural equation modeling Integrated SPSS examples for hands on learning from one large study for consistency of application throughout the text Examples of written results to enable students to learn how the results of these procedures are communicated Practical application of the techniques using contemporary studies that will resonate with students

Handbook of Parametric and Nonparametric Statistical Procedures, Fifth Edition David J. Sheskin, 2020-06-09 Following in the footsteps of its bestselling predecessors the Handbook of Parametric and Nonparametric Statistical Procedures Fifth Edition provides researchers teachers and students with an all inclusive reference on univariate bivariate and multivariate statistical procedures New in the Fifth Edition Substantial updates and new material th

Applied Multivariate Analysis Neil H. Timm, 2007-06-21 Univariate statistical analysis is concerned with techniques for the analysis of a single random variable This book is about applied multivariate analysis It was written to p vide students and researchers with an introduction to statistical techniques for the ana sis of continuous quantitative measurements on several random variables simultaneously While quantitative measurements may be obtained from any population the material in this text is primarily concerned with techniques useful for the analysis of continuous obser tions from multivariate normal populations with linear structure While several multivariate methods are extensions of univariate procedures a unique feature of multivariate data an ysis techniques is their ability to control experimental error at an exact nominal level and to provide information on the covariance structure of the data These features tend to enhance statistical inference making multivariate data analysis superior to univariate analysis While in a previous edition of my textbook on multivariate analysis I tried to precede a multivariate method with a corresponding univariate procedure when applicable I have not taken this approach here Instead it is assumed that the reader has taken basic courses in multiple linear regression analysis of variance and experimental design While students may be familiar with vector spaces and matrices important results essential to multivariate analysis are reviewed in Chapter 2 I have avoided the use of calculus in this text

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