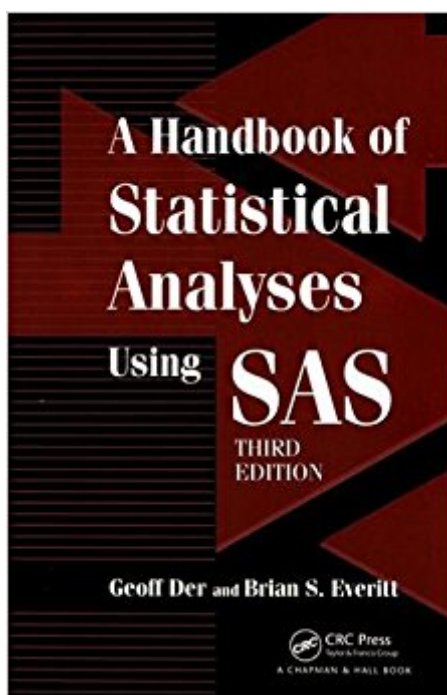


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# A Handbook Of Statistical Analyses Using SAS, Third Edition



## Synopsis

Updated to reflect SAS 9.2, *A Handbook of Statistical Analyses using SAS*, Third Edition continues to provide a straightforward description of how to conduct various statistical analyses using SAS. Each chapter shows how to use SAS for a particular type of analysis. The authors cover inference, analysis of variance, regression, generalized linear models, longitudinal data, survival analysis, principal components analysis, factor analysis, cluster analysis, discriminant function analysis, and correspondence analysis. They demonstrate the analyses through real-world examples, including methadone maintenance treatment, the relation of cirrhosis deaths to alcohol consumption, a sociological study of children, heart transplant treatment, and crime rate determinants. With the data sets and SAS code available online, this book remains the go-to resource for learning how to use SAS for many kinds of statistical analysis. It serves as a stepping stone to the wider resources available to SAS users.

## Book Information

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## Customer Reviews

â | this edition has new chapters for simple linear regression, generalized additive models, generalized estimating equations and generalized mixed models. Chapters have been re-arranged to fit the content better. The SAS outputs are more compact and easier to follow â | This edition also incorporates some of the latest features, such as the enriched Output Delivery System, in version 9.2 of SAS. Overall, the book provides an effective way for researchers and students to quickly identify the appropriate statistical methods for their research, manipulate datasets, write up the

basic framework of SAS codes and interpret the SAS output. â | a valuable resource for any researcher or student who wants to learn the basics about various statistical analyses covered in the book or for anyone involved in statistical consulting or in applied statistical analysis.

â |â •Pharmaceutical Statistics, 2011 â |Overall, the structure that was chosen by the authors is effective in making the reading entertaining and engaging. The third edition of this handbook will prove to be an extremely useful reference tool for current and future SAS users.â •Antonio Pinon, Barclays, Journal of the Royal Statistical Society, Series A, 2010 â | Like the first two editions, this edition emphasizes how to conduct a range of statistical analyses using the latest version of SAS, version 9.2. â | I think the authors did a nice job in achieving the targeted goal. The SAS programs and data used in this edition are available online. The Output Delivery System (ODS), the new graphic procedures, and ODS graphics can be used for presenting the results. I expect that SAS users will appreciate this feature of the edition. â | In summary, SAS users will find the new edition quite useful.â •Technometrics, November 2009, Vol. 51, No. 4 â |The authors largely succeed in the content of the book, expanding on the second edition of the book with practical examples of modeling and graphing techniques that have been added to SAS in recent years. They cover a wide range of topics efficientlyâ •the explanations are brief, but not overly simplistic; the examples are sufficient and never excessive. â | this a good resource for the user who is acquainted with the very basics of SAS, but unsure of how to conduct analysis. â |â •Journal of Statistical Software, April 2009 â |The major distinction between this edition and previous versions is that this edition uses new procedures that are available in SAS version 9.2 to make data analysis easier and to provide results that are ready for publication through the output delivery system (ODS), the new graphics procedures, and ODS graphics. â | This book combines data management using the SAS system and data analysis into one book. â | There are many positive aspects of the book. It is a great reference for someone who is already familiar with the SAS language and the statistical techniques. It cuts out all of the intricate detail and gets to the basic steps needed to perform a particular analysis. The book has shortcuts to reduce the time spent on common tasks. It also has an excellent introduction to the new graphical capabilities of SAS V9.2, which would elate anyone who has used previous versions of SAS graphics by the inclusion of new capabilities.â •Clinical Trials, 2009 Praise for the Second Edition â | a simple manual for using SAS. It has put thousands of pages of SAS manuals in less than 400 pages of a paperback â | The authors have again done an excellent job of explaining each statement as well as the resulting output â | In summary, the handbook introduces SAS programming through a number of data sets of varied complexity, makes the data sets suitable for analysis through programming statements, then uses SAS procedures for

analysis. SAS procedures and the resulting outputs are properly explained and suggestions for appropriate analyses are provided where necessary. | an excellent handbook for a beginning SAS user. Statisticians and nonstatisticians can both benefit from this book. •The American Statistician, November 2002

Geoff Der works as a consulting statistician at the Medical Research Council Social and Public Health Sciences Unit in Glasgow, Scotland. His current research interests include the relationship between cognitive functioning and health, income and health, and models for longitudinal data. In 2005, Brian S. Everitt retired from being head of the Department of Biostatistics and Computing in the Institute of Psychiatry at King's College London, UK. Currently working on his 60th statistics book, he acts as a statistical consultant to a number of companies.

Doesn't seem to offer much more information than a simple Google search would produce. Not very in depth with statements such as PROC UNIVARIATE. I would not buy this book again

This book is a good overview of how to implement in SAS some of the statistical methods you've probably already read about. I had done a lot of reading on factor analysis and clustering for my dissertation and needed a way to implement these methods in SAS. This book explains each method, then shows how to implement it using SAS. The data sets are from "The Handbook of Small Data Sets", which I got from my local university library. As I am a computer scientist and not a statistician, I found this book very helpful in putting together **the idea** of a particular statistical technique with the actual **implementation** of that technique. I have the first edition of this book also, and the second edition is much improved (especially the chapters on clustering and factor analysis).

I was required to buy this book because of my professor. However, I could not understand the book easily. I am not recommending this book for the SAS beginners. Maybe, they should look at other books. If they know about SAS, they may buy and analyze it, pretty cheap and good book for the later steps.

SAS can be challenging. However, I don't think you need a book to figure it out. There is a great resource called google that performs just as well if not better.

I borrowed this book from my adviser and he told me it is very useful. So I buy a new one. I will never sell it!

The authors covered many topics in applied statistics, but they didn't mention anything about time series analysis. I am disappointed after reading this book. The biggest problem with this book is that it's overly simplistic - typically only one technique is illustrated for each topic - for example, in cluster analysis, only hierarchical clustering was mentioned and there was nothing about partitional algorithm. The authors only used very small datasets, which ignored the biggest power of SAS, the ability to handle large datasets. The authors also printed all raw datasets in the book, which took quite a bit of space. The authors should read Venables and Ripley's *Modern Applied Statistics with SPlus* first. Venables/Ripley made a great example on how to write an applied statistics book using a specific software.

This is a nice book if you know the subject from another book ! - otherwise the explanation is limited.

Brian Everitt is the author of several very well-written statistical texts. Among them he has written a number that show how to implement statistical analyses using statistical software packages. This second edition of "A Handbook of Statistical Analyses using SAS" he has coauthored with Geoff Der. As a SAS user, I find this book very handy along with other similar texts that I have on the use of SAS. What is particularly good about this book is that it serves as a guide to the use of various SAS procedures and also as an illustration of appropriate statistical approaches to real applications using SAS. It starts out with a nice introduction to the SAS programming language and its syntax and progresses through simple descriptive statistics to categorical data analysis to regression and analysis of variance and then on to more advanced topics, including survival analysis, logistic regression, generalized linear models, longitudinal data analysis, principle components, factor analysis and cluster analysis. Appendices provide SAS MACROs and SAS solutions to exercises in the text. What is particularly good about this book, that may set it apart from some of the others, is the expert statistical advice about the implementation and interpretation of results in SAS. They provide excellent scholarly references to the statistical literature to support their advice. As an example, I particularly liked their discussion of Type I and Type III sum of squares in the analysis of variance. They give a clear explanation of what each means and when they are equivalent and when they are different. In addition, they present their own view as to which is the appropriate one to use in given situations and support their view with quotes from other researchers. Opposing

positions are also mentioned and referenced.

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