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Applied Linear Statistical Models

APPLIED LINEAR STATISTICAL MODELS

FIFTH EDITION

Kutner

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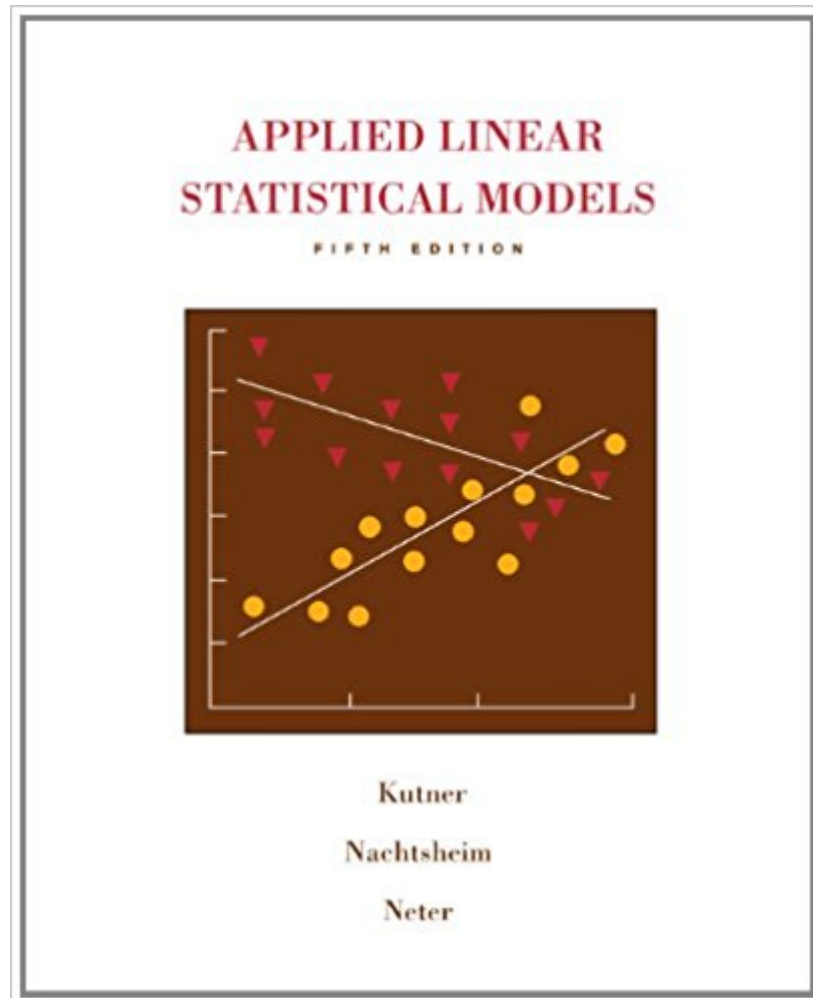
Synopsis

Applied Linear Statistical Models 5e is the long established leading authoritative text and reference on statistical modeling, analysis of variance, and the design of experiments. For students in most any discipline where statistical analysis or interpretation is used, ALSM serves as the standard work. The text proceeds through linear and nonlinear regression and modeling for the first half, and through ANOVA and Experimental Design in the second half. All topics are presented in a precise and clear style supported with solved examples, numbered formulae, graphic illustrations, and "Comments" to provide depth and statistical accuracy and precision. Applications used within the text and the hallmark problems, exercises, projects, and case studies are drawn from virtually all disciplines and fields providing motivation for students in virtually any college. The Fifth edition provides an increased use of computing and graphical analysis throughout, without sacrificing concepts or rigor. In general, the 5e uses larger data sets in examples and exercises, and the use of automated software without loss of understanding.

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Customer Reviews

Michael H. Kutner is a professor at Emory University in Atlanta. Chris J. Nachtsheim is a professor at the University of Minnesota at Minneapolis. John Neter is a professor at the University of Georgia in Athens. --This text refers to an out of print or unavailable edition of this title.

This book covers so much knowledge. The book takes an algebraic approach to most topics and

shies away from the matrix algebra approach used by so many other books. The examples in the book are thorough and easy to follow. This book is really only about linear regression and ANOVA (one-way, two-way, MANOVA, mixed effects, etc.) models with a few other topics thrown in. The book is organized well and thorough.The only pitfall is it uses MINITAB. I wish it used R instead.

I'm only into chapter 2 and I really like the way the book is laid out. Good examples and clear explanations and proofs regarding what is going on. I agree with other reviewers that you are going to want to take an introductory statistics class at a minimum, and preferably including some calculus-based probability. But once you have that background, this book will help you get to the next level. If anyone refers to this as a statistical "bible", they aren't kidding.

This book may be a little old, but the clarity and explanations that this book gives can't be beat. If you want an intermediate applied textbook, I'd recommend this one. It covers a lot of types of Regression, such as linear, Logistic, and Poisson. It also covers one-way ANOVA, multi-way ANOVA, ANCOVA, and much more. It also talks about mixed and Random models. I'm still reading, but what I have read is very good.

As a Statistics student, I love this book. However, it is probably best for an upperclassman in a statistics program or a first year master's degree student. Our school uses the first half for the business students taking regression and even though they use it, I think it is quite challenging for them. Also, if you want only the first half of the book, you can buy Applied Linear Regression Models.This book is not the be all and end all of statistics books, but it gives a basic overview of many topics. It is easy for someone with a background knowledge in basic statistics to read. If you want to know more about a topic, there is a bibliography. I like to read first from this book, to get a general idea about the concepts and then go to a more difficult text for all the details.My book came with a CD, which I have never used because all the data and the student solution guide (odd answers) are online through mcgraw-hill.

This book was a required text for my Data Analysis course. I am not a stats person and have had only a rudimentary introduction to the subject, so I was surprised to find that this is a very approachable book. It is A TOME, but only because the authors are so thorough in their explanations. If you have seen hypothesis testing and are comfortable with the normal distribution, you will be able to face this book. If you are not, be aware that the exercises in the first chapter refer

to the prerequisite material not covered by the book.After the introductory chapter, the authors gave just the right amount of theory to explain the topic at hand and give extensive footnotes for further information. Lots of graphs and example software output are included, all very helpful. I found the text to be well-organized, with coverage given to explanation and examples of each topic.My one complaint with the book is that it included no instruction on how to work with software programs to get the desired results, so if you are entirely new to the area and do not know how to use Statistix (which has a thorough and self-explanatory help system), R, Minitab, and SAS (which do not), going will be rough. One of the other reviewers mentioned a SAS guide. You may need it if your professor does not demonstrate software use in class.

Some statistical background is required prior to picking up this book (need to know basic probability and statistics), but this book presents linear analysis in an incredibly straightforward manner. There are also plenty of examples, but the text doesn't rely on them to teach the material. Generally, proofs are provided as "Comments" at the end of the section.It can serve either as a reference for someone already familiar with these techniques, but is also definitely a book to learn from. Data for examples is also provided in the CD or online if you want to follow along with a statistical language as well. Output shown in the book is usually from MINITAB. The book does not provide any example code, however.Overall, an absolutely excellent book. I highly recommend it to anyone learning linear modeling techniques.

This is the introductory book my university uses for Statistics 336, the starting class for Statistics majors. Overall, this was an excellent book. It is clear and comprehensive. A lot is covered (and so the length can seem imposing) and so not everything is completely expanded (but what book should have absolutely everything).Minus the randomly placed typo, this is book is well written and well tested. Most of my professors have some edition of this book and say it is one of the best guides to basic linear models. I would definitely agree. I use it as a reference often working as a statistical consultant.

I bought this book for my applied statistics class, and I can't really understand the professor. However, all of his exams and homework are straight from the textbook. Therefore, I always ace the homework and exams. The textbook is so easy to understand and the writers laid out everything in an orderly manner. Would highly recommend this textbook for professors and students.

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