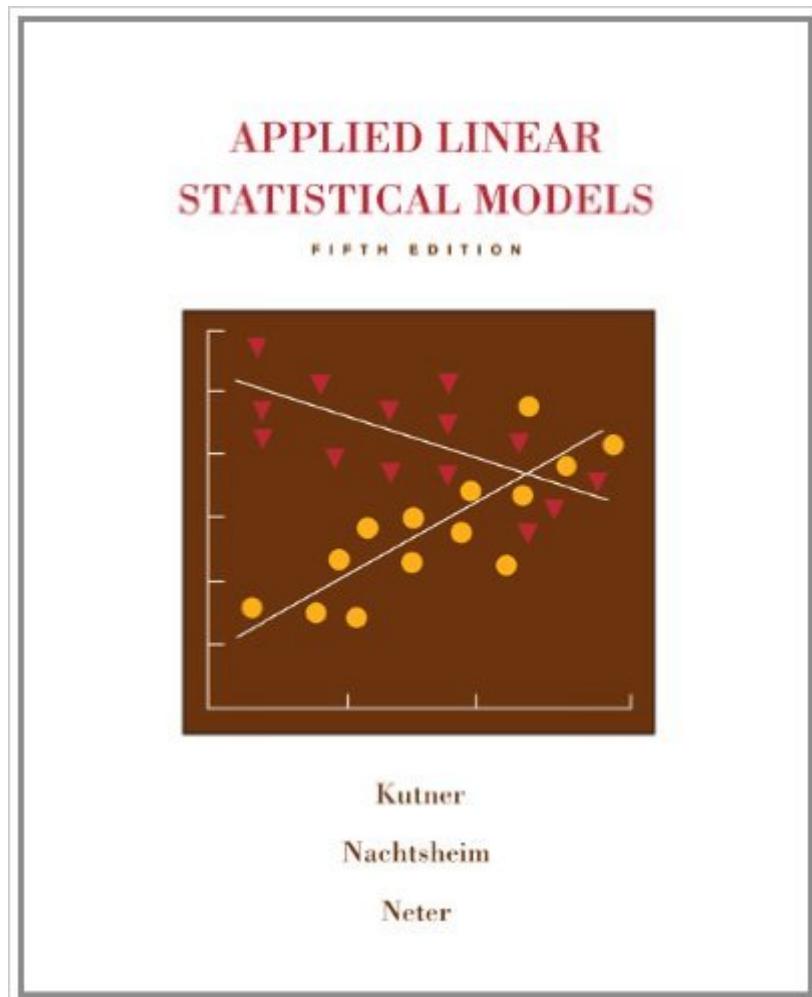


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# Applied Linear Statistical Models



## **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.

## **Book Information**

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## **Customer Reviews**

Second year Ph.D. student in Statistics at Iowa State University I can't think of a single better non-theoretic linear models book. You need to have at least one semester of undergraduate statistics under your belt to follow this book, but it's useful and readable for everyone else. Undergraduates, graduates, professionals...whoever. Given its non-theoretic approach and extremely clear explanations, it can be read by undergraduates with only a minimal background in

statistics, but it is comprehensive enough to be useful to anyone. There is no better linear models reference. The textbook is thick (almost 1400 pages) and covers most linear models topics in great detail including regression, ANOVA, and analysis of covariance. My only disappointment regarding content was the rather slim coverage of random and mixed effects models and GLM's. On a positive note, the book provides excellent coverage of diagnostics and remedial measures, which is very often skimmed over in linear models books. Additionally, it has exceptionally well-written, though fairly brief, coverage of model selection and validation, another topic that is a little lacking in many linear models books. The explanations and choice of exercises are both well-done. The explanations and examples are both clear and thorough, although I would have definitely preferred to see more graphs. It's the kind of topic where visual illustration greatly increases understanding. Generally, the exercises seem a little bit too easy, especially for graduate students, but they do mix in a few harder problems and they pick good, non-contrived problems. Whether you want a linear models book for learning purposes or if you just want a reference, this book is an excellent choice.

This book if not for business majors , engineering students and psychology students. This is an EXCELLENT book for statistics undergrad/grad and PhD students. I spent over 10 hours weekly just reading the book every week. Plus my assignments will take another 10 hours . So be prepared for a 20 hr week. YOU NEED TO TAKE A BASIC STAT / INTRO STAT course before this. If you don't know the meaning of P-values , T-test , F-test , DO NOT TAKE THIS COURSE. This book will not introduce you to those things. Unfortunately many business schools ( including top 10 ) don't offer a good intro stat course, so business majors jumping in to this course is a wrong idea. This book is also a "good to own book". The first 15 or so chapters has regression and the second half ( next 15 chapters ) has DOE (design of experiments). GREAT BOOK ! One piece of advice - make sure you learn to use SAS with this course . In real world applications many industries are using SAS. Even if your teacher insists on using R package / splus , YOU MAKE SURE YOU know how to do those things in SAS . There is a SAS student manual with this book, specially written for this book . buy it ISBN - 0-07-302177-6 good luck !

This is truly an applied text. If you've had basic stats courses and a you have a competent professor then this text will not "run away" from you with wild references to theory and obscure terminology. The authors are quite deliberate and patient in their explanations when they introduce new terminology OR they feel a review of the terminology/concept is in order. The heft and look of the book is VERY intimidating, but it's just an illusion...since the book is truly applied, the theoretical

stuff is kept to a minimum. The example data help to bring this book alive. Now don't get me wrong. I have done lots of outside reading on basic stuff like error, variance, and knowing the difference between a parameter and a statistic to get prepped for this class and it paid off. I will keep this book to refer back to it frequently.

The course I'm taking this fall requires the text, Applied Linear Regression Models- 4th Edition with Student CD (McGraw Hill/Irwin Series: Operations and Decision Sciences), written by the same authors as the book being reviewed. I was a little hesitant about purchasing the Regression Models book because of the price and the reviews on .com. So, I ordered a used copy of Applied Linear Statistical Models, 5e (2005), and I would like to add a rather important note regarding the similarities between the two books. I have no way to compare personally, since I only have one book. But I've searched several syllabi online for classes that use these books, and the professors all say that the content in the Regression Models text is identical to the first half of the Statistical Models text- chapters, chapter order, and chapter exercises. Applied Linear Statistical Models is better because you are paying on average 20% more for a book that has twice the content.

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.

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