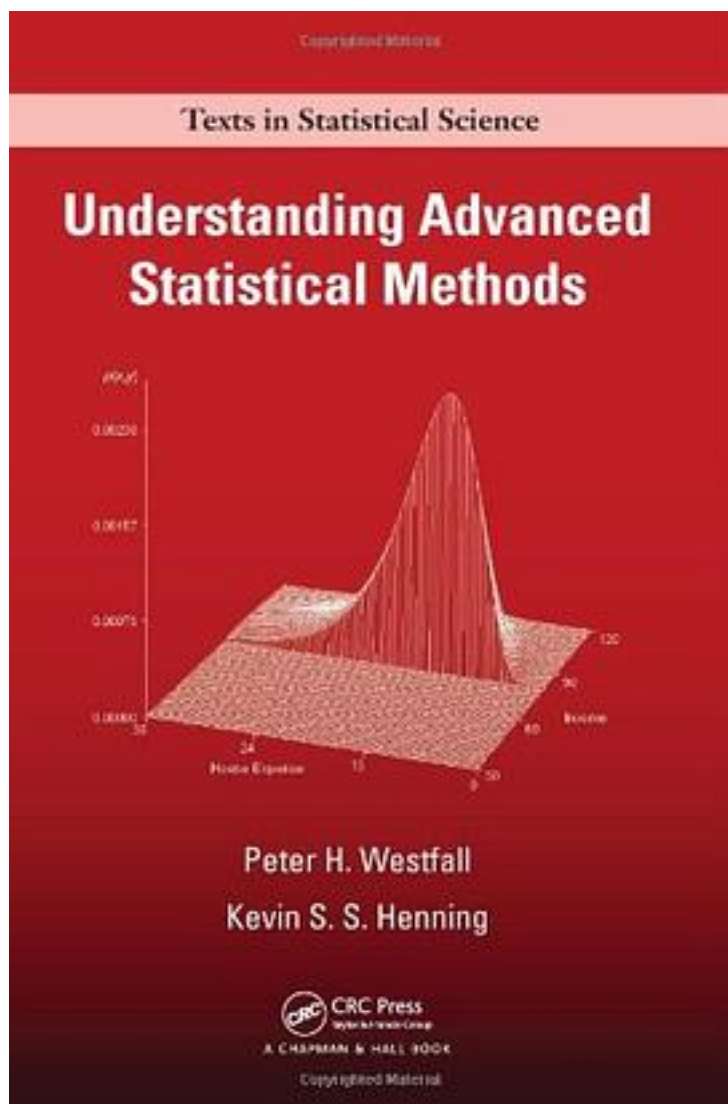


Understanding Advanced Statistical Methods



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Providing a much-needed bridge between elementary statistics courses and advanced research methods courses, Understanding Advanced Statistical Methods helps students grasp the fundamental assumptions and machinery behind sophisticated statistical topics, such as logistic regression, maximum likelihood, bootstrapping, nonparametrics, and Bayesian methods. The book teaches students how to properly model, think critically, and design their own studies to avoid common errors. It leads them to think differently not only about math and statistics but also about general research and the scientific method. With a focus on statistical models as producers of data, the book enables students to more easily understand the machinery of advanced statistics. It also downplays the "population" interpretation of statistical models and presents Bayesian methods before frequentist ones. Requiring no prior calculus experience, the text employs a "just-in-time" approach that introduces mathematical topics, including calculus, where needed. Formulas throughout the text are used to explain why calculus and probability are essential in statistical modeling. The authors also intuitively explain the theory and logic behind real data analysis, incorporating a range of application examples from the social, economic, biological, medical, physical, and engineering sciences. Enabling your students to answer the why behind statistical methods, this text teaches them how to successfully draw conclusions when the premises are flawed. It empowers them to use advanced statistical methods with confidence and develop their own statistical recipes. Ancillary materials are available on the book's website.

作者介绍:

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标签

统计学

统计

Statistics

数据科学

statistics

数据处理

教材

投资

评论

flag已拔。想打六星的教材。作者很认真地说明了主流统计检验背后的motivation，而且一步一步推公式给读者看，从来不会跳步，还会详细解释中间每一步都发生了什么。章节安排也很独特，贝叶斯统计放在了frequentist统计前面，并不断穿插二者的对比。读完有种豁然开朗的感觉。

我见过的最好的统计学导论著作

讲人话、公式推导不跳步、例子简洁有力、传递独特而非烂大街的信息，能够做到这几点的统计书一般就是好书，但如果做不到还能被广大读者公认好书的就是神书，此书属于前者。书有两个问题，书名不准确，明明是Understanding Fundamental Statistical Methods，其内容一点都不Advanced，第二是太Fundamental了，唯一看似高级一点的Robustness and Nonparametric Methods都没有介绍真正核心的技术，评价扣一星就在这里，我个人现在尤其喜好高级非参，没有就低了一个档次。此书的理想定位应该是本科相关专业统计入门辅助读物，其略显诙谐轻松的写作风格不太适合教科书，可其对专业术语和概念的剖析要比99%的教科书更为深入易懂，四星评价全在于此。

后面关于假设检验的部分写的很赞。

笔记整理中。非常厉害的解释。

一个全面涉及统计学基本理论的导论书，频率学派，贝叶斯，最大似然和似然比检验等等。时间和精力关系后面三章放弃。对于非统计专业人，需要对统计学有一定了解和初步基础。看的很痛苦，因为没有统计基础，并且英文阅读能力也受限。

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书评

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