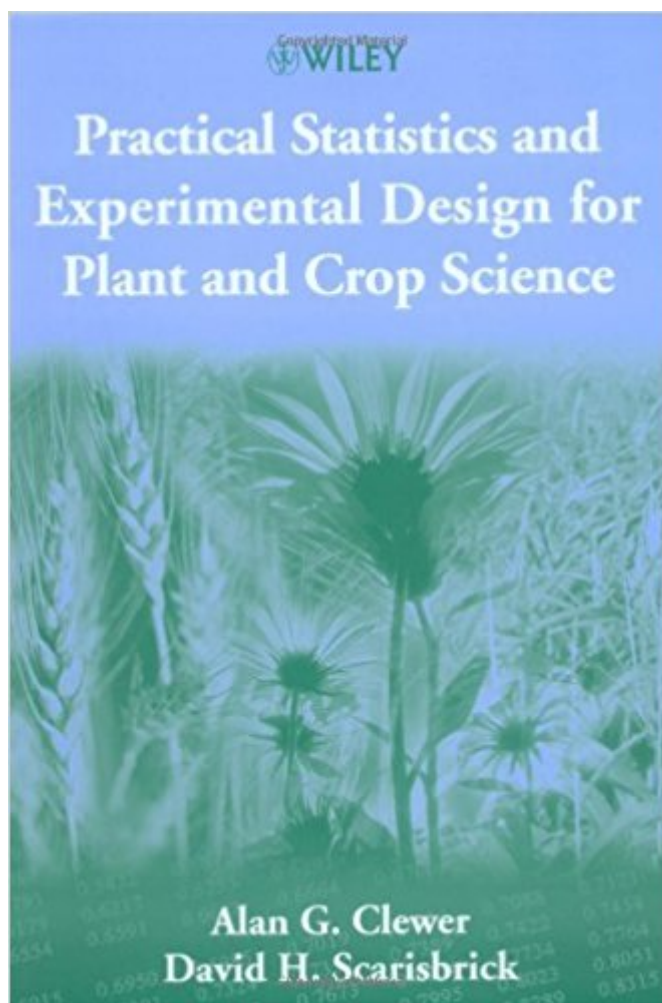


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# Practical Statistics And Experimental Design For Plant And Crop Science



## Synopsis

Presents readers with a user-friendly, non-technical introduction to statistics and the principles of plant and crop experimentation. Avoiding mathematical jargon, it explains how to plan and design an experiment, analyse results, interpret computer output and present findings. Using specific crop and plant case studies, this guide presents:

- \* The reasoning behind each statistical method is explained before giving relevant, practical examples
- \* Step-by-step calculations with examples linked to three computer packages (MINITAB, GENSTAT and SAS)
- \* Exercises at the end of many chapters
- \* Advice on presenting results and report writing

Written by experienced lecturers, this text will be invaluable to undergraduate and postgraduate students studying plant sciences, including plant and crop physiology, biotechnology, plant pathology and agronomy, plus ecology and environmental science students and those wanting a refresher or reference book in statistics.

## Book Information

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## Customer Reviews

"...suitable for a practical course to science students wishing to appreciate statistical methods in agricultural and environmental research." (Short Book Reviews, Vol. 21, No. 2, August 2001)

"...useful to undergraduate students..." (Zentralblatt MATH, Vol. 961, 2001/11)

Practical Statistics and Experimental Design for Plant and Crop Science provides an introduction to the principles of plant and crop experimentation. Avoiding mathematical jargon, this text explains how to plan and design an experiment, analyse results, interpret computer output and present

findings. Using specific crop and plant case studies this user-friendly guide presents: The reasoning behind each statistical method before giving practical examples Step-by-step calculations with examples linked to three computer packages (MINITAB, GENSTAT and SAS) Exercises at the end of many chapters Advice on presenting results and report writing Written by experienced lecturers, this text will be invaluable to undergraduate and postgraduate students studying plant sciences, including plant and crop physiology, biotechnology, plant pathology and agronomy, plus ecology and environmental science students and those wanting a refresher or reference book in statistics.

I like this book, because it discusses some of the nuts and bolts of basic statistical analysis for crop science, as well as supplying the formulas for the statistical parameters. I would recommend this book for graduate students or researchers looking for a useful description of common experimental designs, statistical tests such as regression analysis, anova, and basic analysis of covariance. As with any statistics textbook meant for general readership, it will be a little above the capabilities of someone without any background in statistics and a little inadequate for those who are heavily invested in detailed statistical analysis, but I think it covers a nice middle ground in the literature. It would be nice if the next edition had an appendix of the basic formulas that are used commonly in the book so that there would be a more ready reference.

The authors partition topics well into easy-to-read sections, which is nice if you don't want to read long passages at a time. It provides information on a number of methods that were not covered in my intro plant experimental design class, so it should be useful later as a reference.

Needed this for my Master class in Agronomy. I cannot say I love it, because it is statistics, but it is a good book for my class. Paperback book.

This give detailed reviews of equations but also provides examples with applicable situations of when an experimental design or equation would be necessary.

This book was very well written and went well with my statistical course in graduate school. It is a must if you an agricultural researcher.

Things were not adequately described in this book to help learn stat concepts. This needed to be a

step by step book on how to take field data and confidently analyze it for a research project. It did not do this.

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