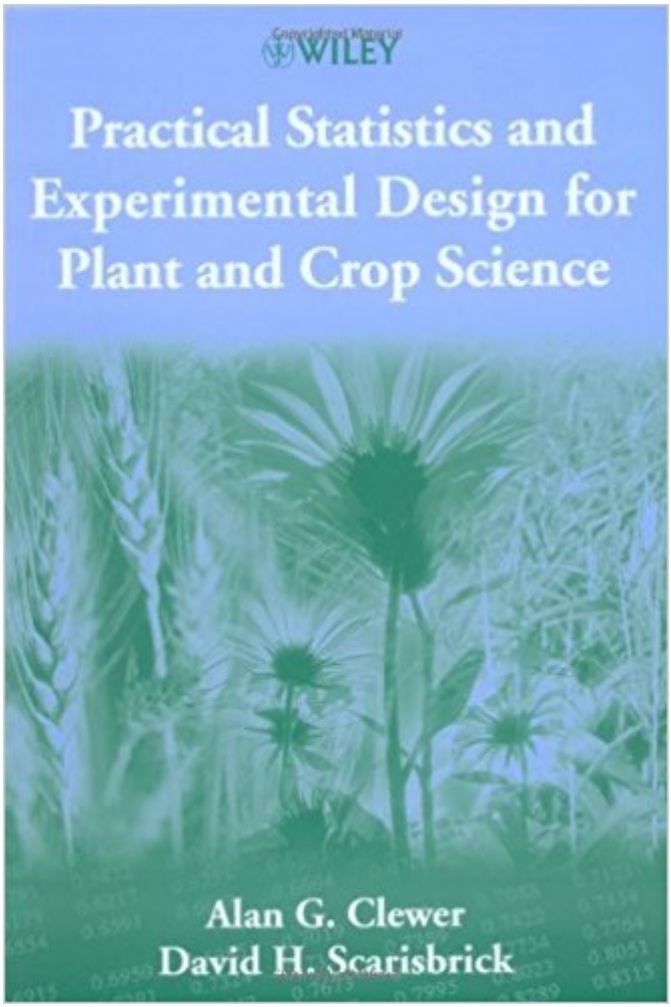
Practical Statistics And Experimental Design For Plant And Crop Science



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

Paperback: 346 pages
Publisher: Wiley; 1 edition (February 8, 2001)
Language: English
ISBN-10: 0471899097
ISBN-13: 978-0471899099
Product Dimensions: 6.7 x 1 x 9.7 inches
Shipping Weight: 1.4 pounds (View shipping rates and policies)
Average Customer Review: 4.0 out of 5 stars 6 customer reviews
Best Sellers Rank: #637,257 in Books (See Top 100 in Books) #140 inÂ Books > Science & Math > Agricultural Sciences > Crop Science #377 inÂ Books > Textbooks > Science & Mathematics > Biology & Life Sciences > Botany #599 inÂ Books > Science & Math > Experiments, Instruments & Measurement > Methodology & Statistics

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 mathod 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 undergradaute 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.

Practical Statistics and Experimental Design for Plant and Crop Science Statistics for People Who (Think They) Hate Statistics (Salkind, Statistics for People Who(Think They Hate Statistics(Without CD)) Crop Management and Postharvest Handling of Horticultural Products: Crop Fertilization, Nutrition and Growth My Father Was a Crop Duster: The Story of Atwood Crop Dusters American Horticultural Society Plant Propagation: The Fully Illustrated Plant-by-Plant Manual of Practical Techniques Plant Tissue Culture: A Classified Bibliography (Developments in Crop Science) Practical Statistics for Experimental Biologists, 2nd Edition An Introduction To Experimental Design And Statistics For Biology Experimental and Quasi-Experimental Designs for Generalized Causal Inference Experimental Psychology (PSY 301 Introduction to Experimental Psychology) Experimental Structural Dynamics: An Introduction to Experimental Methods of Characterizing Vibrating Structures Ecological Consequences of Increasing Crop Productivity: Plant Breeding and Biotic Diversity Using IBMÂ® SPSSÂ® Statistics for Research Methods and Social Science Statistics Graphic Design Success: Over 100 Tips for Beginners in Graphic Design: Graphic Design Basics for Beginners, Save Time and Jump Start Your Success (graphic ... graphic design beginner, design skills) Chemical and Process Plant Commissioning Handbook: A Practical Guide to Plant System and Equipment Installation and Commissioning Experimental Food Science, Third Edition (Food Science and Technology) Tropical Root and Tuber Crops: Cassava, Sweet Potato, Yams and Aroids (Crop Production Science in Horticulture) Ornamental Bulbs, Corms and Tubers (Crop Production Science in Horticulture) Tropical Root and Tuber Crops: 17 (Crop Production Science in Horticulture) Cucurbits (Crop Production Science in Horticulture)