

(Library ebook) Statistics and Experimental Design: An Introduction for Biologists and Biochemists

Statistics and Experimental Design: An Introduction for Biologists and Biochemists

Geoffrey M. Clarke

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before purchasing it in order to gauge whether or not it would be worth my time, and all praised Statistics and Experimental Design: An Introduction for Biologists and Biochemists:

This popular textbook provides a non-mathematical account of all those statistical methods used commonly in the biological sciences. The methods are described first, then how to use them and understand the results, and finally how to use modern computing methods to both facilitate the experiment and illustrate reports with appropriate pictures and diagrams. There are many worked examples and exercises making the text as useful for personal study as for the classroom.

The material is well written with clear notation and ample examples and exercises...A nice little book that can be highly recommended for a non-mathematical introductory course in statistics for experimental scientists. -- Teaching Statistics, reviewing a previous edition ...it should appeal to those wishing to learn statistical methods in an 'applied' way. It is easy to follow, gives an excellent grounding in statistical methods for the less mathematically inclined, and can be recommended to biologists and to science students generally. -- Bias A book of this kind, addressed to a

specialist audience will...be judged mainly on the examples chosen to illustrate the procedures described and on the exercises set for the reader. Here the author has been very successful; he has drawn on a wide range of biological experiments. Particularly pleasing are those exercises which really make the reader think. -- Journal of Applied Bacteriology

From the Publisher Explains standard statistical methods in a non-mathematical manner. Describes how to use them, interpret the results, and how to illustrate reports with suitable graphics. Includes numerous, detailed worked examples and exercises.

From the Back Cover Many gross errors in applying statistical methods arise through not knowing when they work, or when the results are a nonsense, and through using methods that are not entirely appropriate to the problems being analysed. The most effective way of learning to use and appreciate statistical methods is through an applied approach. Clarke's popular textbook provides a non-mathematical account of all the statistical methods commonly used by students and researchers in the biological sciences. It describes the methods, their uses and the interpretation of results and in addition, presents the ideas behind, and the limitations of, standard statistical procedure. The text acknowledges the importance of computers in the analysis of data and gives students advice on the use of MINITAB in statistical work and the use of computer graphics to illustrate reports.