Principles of Experimental Design for the Life Sciences

Murray R. Selwyn
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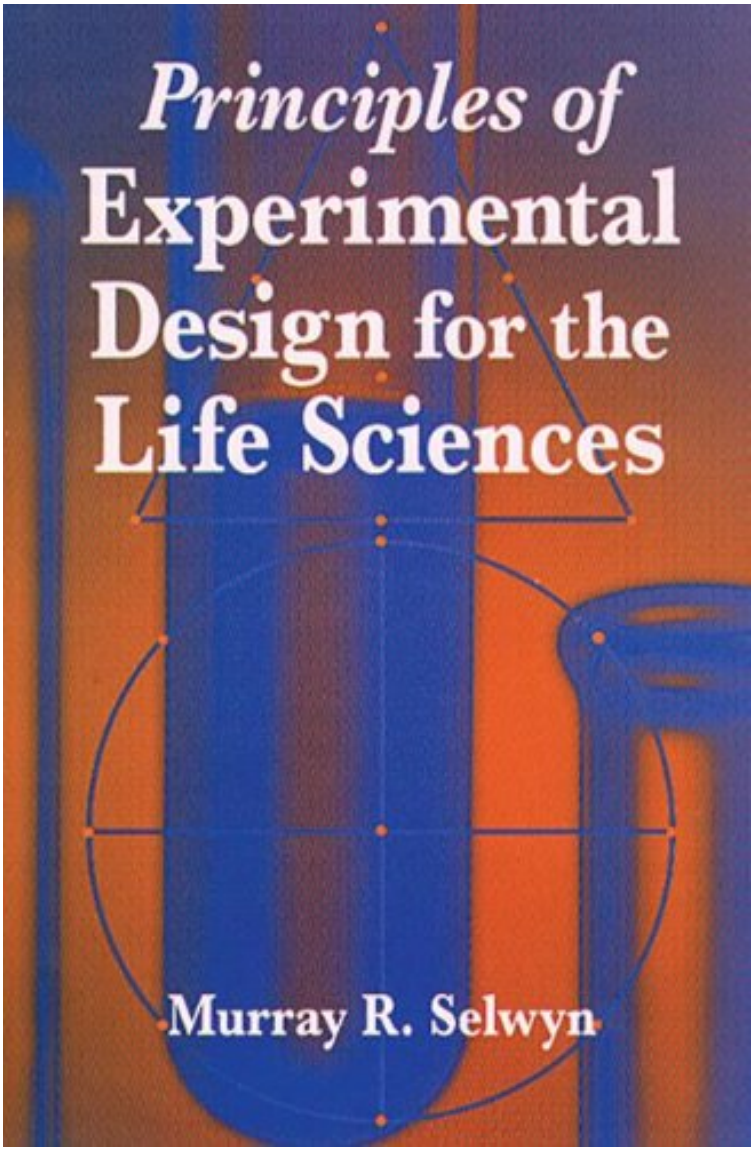

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Murray R. Selwyn : Principles of Experimental Design for the Life Sciences before purchasing it in order to gage whether or not it would be worth my time, and all praised Principles of Experimental Design for the Life Sciences:

9 of 9 people found the following review helpful. A wonderful Guide for Designing Research StudiesBy David A. Johnson, Ph.D.This slim volume offers a great overview for how to design experimental research studies for the life sciences. It is relatively light on mathmatical formulas, but emphasizes the rational step by step approach one needs to take to plan out a study that will avoid the pitfalls of experimental design (or lack thereof) that can spell disaster for

the researcher. The writing is understandable and straight forward. A number of practical examples are presented throughout the book which facilitate an understanding of the concepts presented. One key area which I especially appreciated was Selwyn's discusion of Power from the standpoint of sample size and how this can influence the selection of a particular experimental design.In summary, this is an excellent text for classes which study scientific methods and design in the life sciences, and a good companion for a standard statistics text book. It is also great for investigators who want to conduct their research in a scientifically sound and efficient manner.

Let this down-to-earth book be your guide to the statistical integrity of your work. Without relying on the detailed and complex mathematical explanations found in many other statistical texts, Principles of Experimental Design for the Life Sciences teaches how to design, conduct, and interpret top-notch life science studies. Learn about the planning of biomedical studies, the principles of statistical design, sample size estimation, common designs in biological experiments, sequential clinical trials, high dimensional designs and process optimization, and the correspondence between objectives, design, and analysis. Each of these important topics is presented in an understandable and non-technical manner, free of statistical jargon and formulas. Written by a biostatistical consultant with 25 years of experience, Principles of Experimental Design for the Life Sciences is filled with real-life examples from the author's work that you can quickly and easily apply to your own. These examples illustrate the main concepts of experimental design and cover a broad range of application areas in both clinical and nonclinical research. With this one innovative, helpful book you can improve your understanding of statistics, enhance your confidence in your results, and, at long last, shake off those statistical shackles!

From the Back CoverWithout relying on the detailed and complex mathematical explanations found in many other statistical texts, Principles of Experimental Design for the Life Sciences teaches how to design, conduct, and interpret top-notch life science studies. Learn about planning biomedical studies, the principles of statistical design, sample size estimation, common designs in biological experiments, sequential clinical trials, high dimensional designs and process optimization, and the correspondence between objectives, design, and analysis. Each of these important topics is presented in an understandable and non-technical manner, free of statistical jargon and formulas. The book also includes real-life examples from the author's 25-year biostatistical consulting career. With Principles of Experimental Design for the Life Sciences you can improve your understanding of statistics, enhance your confidence in your results, and, at long last, shake off those statistical shackles!