



Modern Experimental Design (Wiley Series in Probability and Statistics)

Thomas P. Ryan

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Modern Experimental Design (Wiley Series in Probability and Statistics) Thomas P. Ryan
A complete and well-balanced introduction to modern experimental design

Using current research and discussion of the topic along with clear applications, *Modern Experimental Design* highlights the guiding role of statistical principles in experimental design construction. This text can serve as both an applied introduction as well as a concise review of the essential types of experimental designs and their applications.

Topical coverage includes designs containing one or multiple factors, designs with at least one blocking factor, split-unit designs and their variations as well as supersaturated and Plackett-Burman designs. In addition, the text contains extensive treatment of:

- Conditional effects analysis as a proposed general method of analysis
- Multiresponse optimization
- Space-filling designs, including Latin hypercube and uniform designs
- Restricted regions of operability and debarred observations
- Analysis of Means (ANOM) used to analyze data from various types of designs
- The application of available software, including Design-Expert, JMP, and MINITAB

This text provides thorough coverage of the topic while also introducing the reader to new approaches. Using a large number of references with detailed analyses of datasets, *Modern Experimental Design* works as a well-rounded learning tool for beginners as well as a valuable resource for practitioners.

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