



Pharmaceutical Experimental Design (Drugs and the Pharmaceutical Sciences)

Gareth A. Lewis, Didier Mathieu, Roger Phan-Tan-Luu

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This useful reference describes the statistical planning and design of pharmaceutical experiments, covering all stages in the development process-including preformulation, formulation, process study and optimization, scale-up, and robust process and formulation development. Shows how to overcome pharmaceutical, technological, and economic constraints on experiment design! Directly comparing the advantages and disadvantages of specific techniques, *Pharmaceutical Experimental Design* offers broad, detailed, up-to-date descriptions of designs and methods not easily accessible in other books - reviews screening designs for qualitative factors at different levels - presents designs for predictive models and their use in optimization - highlights optimization methods, such as steepest ascent, optimum path, canonical analysis, graphical analysis, and desirability - discusses the Taguchi method for quality assurance and approaches for robust scaling up and process transfer - details nonstandard designs and mixtures - analyzes factorial, D-optimal design, and offline quality assurance techniques - reveals how one experimental design evolves from another - and more! Featuring over 700 references, tables, equations, and drawings, *Pharmaceutical Experimental Design* is suitable for industrial, research, and clinical pharmaceutical scientists, pharmacists, and pharmacologists; statisticians and biostatisticians; drug regulatory affairs personnel; biotechnologists; formulation, analytical, and synthetic chemists and engineers, quality assurance personnel; all users of statistical experimental design in research and development; and postgraduate and postdoctoral research workers in these disciplines.

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