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Summary. This chapter motivates the use of statistical principles in the design of experiments. Several important facts are stressed: statistically designed experiments are economical; they allow one to measure the influence of one or several factors on a response; they allow the estimation of the magnitude of experimental error; and experiments designed without adhering to statistical principles usually violate one or more of these desirable design goals.

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experimental design particular emphasis is given to those designs that are likely to prove useful in

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Basic Principles of Experimental Design

Randomization Randomization is the cornerstone underlying the use of statistical methods in experimental designs . Replication By replication, we mean that repetition of the basic experiments. For example, If we need to compare the... It allows the ...



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## *Design ...*

As with other branches of statistics, experimental design is pursued using both frequentist and Bayesian approaches: In evaluating statistical procedures like experimental designs, frequentist statistics studies the sampling distribution while Bayesian statistics updates a probability distribution on the parameter space.

## *Design of experiments - Wikipedia*

Statistical Principles for the Design of Experiments: Applications to Real Experiments R. Mead , S. G. Gilmour , A. Mead This book is about the statistical principles behind the design of effective experiments

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and focuses on the practical needs of applied statisticians and experimenters engaged in design, implementation and analysis.

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