

## Statistical Principles In Experimental Design

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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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The basic principles of experimental designs are randomization, replication and local control. These principles make a valid test of significance possible. Each of them is described briefly in the following subsections. (1) Randomization. The first principle of an experimental design is randomization, which is a random process of assigning treatments to the experimental units.

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

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