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Statistical principles in experimental design 2d ed. by B. J. Winer. 4 Want to read; Published 1971 by McGraw-Hill in New York. Written in English

## **Statistical principles in experimental design (1971 ...**

1.1.5 - Principles of Experimental Design  
The following principles of experimental

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design have to be followed to enable a researcher to conclude that differences in the results of an experiment, not reasonably attributable to chance, are likely caused by the treatments.

## **1.1.5 - Principles of Experimental Design | STAT 500**

The basic principles of experimental



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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.

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Statistical Principles for the Design of Experiments - by R. Mead September 2012. ... studies using spotted microarray technologies allow the comparison of gene transcription responses for different experimental samples, such as plant samples taken from different plant lines (a wild-type and lines with different genetic

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mutations), having been ...

**Experimental units (Chapter 5) -  
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Principles of Experimental Design 20.  
Replication 21. Randomization 22.  
Blocking 24. Control 26. Assignment 27.  
References 27. 3 Fundamentals of  
Statistical Data Analysis 29. Introduction

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29. Boys' Shoes Experiment 30.  
Experimental design 30. Graphical  
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Principles for Neurobiologists introduces readers to basic experimental design and statistical thinking in a comprehensive, relevant manner.

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As with other branches of statistics, experimental design is pursued using

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## **Statistical Principles in Experimental Design | B. J ...**

Randomization is the cornerstone underlying the use of statistical methods in experimental designs. Randomization is the random process of assigning treatments to the experimental units. The random process implies that every possible allotment of treatments has the



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same probability.

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Statistical Principles in Experimental  
Design (McGraw-Hill series in  
psychology) Benjamin J. Winer Published  
by McGraw-Hill Publishing Co. November  
1971 (1971)

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associated with the plan (Kirk, 1982).

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researchers can manipulate the conditions of the experiment and can control the factors that are irrelevant to the research objectives.

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Modern Experimental Design highlights the guiding role of statistical principles

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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.

**Modern Experimental Design**  
cal foundations of experimental design and analysis in the case of a very simple

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experiment, with emphasis on the theory that needs to be understood to use statistics appropriately in practice. Chapter 7 covers experimental design principles in terms of preventable threats to the acceptability of your experimental conclusions.

## **Experimental Design and Analysis -**

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Among experimental psychologists, successful replication enhances belief in a finding, while a failure to replicate is often interpreted to mean that one of the experiments is flawed. This view is wrong. Because experimental psychology uses statistics, empirical findings should appear with predictable

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Statistical Thinking in Biomedical Research October 2, 2000 Mark Conaway. October 2, 2000 Experimental Design 2 Use examples to illustrate principles • Reference: Maughan et al. (1996) Effects of Ingested Fluids on Exercise Capacity and on Cardiovascular and

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