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Things to remember when designing a Statistical Experiment. Ø Select the right type of experimental design. Ø Should have an adequate number of replications. Ø Treatments should be randomly allocated to the experimental units. Ø Try to reduce extraneous factors as possible.

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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 fol

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Design of experiments - Wikipedia

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The Design of Experiments: Statistical Principles For ...

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1.1.5 - Principles of Experimental Design
The following principles of experimental 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

What Is Design of Experiments (DOE)?
Quality Glossary Definition: Design of experiments. Design of experiments (DOE) is defined as a branch of applied statistics that deals with planning, conducting, analyzing, and interpreting controlled tests to evaluate the factors that control the value of a parameter or group of parameters.

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The Design of Experiments:

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Statistical Principles for ...

The three basic principles of statistical design of experiments are Control, Randomization and Repetition. When we say the design of an experiment (or experimental design), we refer to the manner in which these three principles are carried out.

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