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An orthogonal experimental design method combining with quantitative analysis of small-angle X-ray scattering (SAXS) pattern was applied to optimize the synthesis of bioactive glasses with highly ordered mesoporous structure (MBGs). The quantitative analysis of SAXS pattern allows a quantified evaluation of the ordering of the mesoporous structure, which makes it possible to tailoring the mesoporous structure of the MBGs with complex component by a traditional orthogonal experimental design method.

Application of orthogonal experimental design in synthesis ...

In order to generate high quality test cases as early as possible to improve the efficiency of software testing, it is designed a generation tool of the automatic software testing case on orthogonal experimental design. For the test data, the use of that tool design test cases.

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Design of Experiments Application, Concepts, Examples ...

Using Orthogonal Arrays to design an experimental matrix it is possible to vary a large number of parameters simultaneously in a designed experiment with a relatively small number of experimental runs and be able to estimate separately the effects of each of the parameters on a response variable.

Applying Orthogonal Array Design Matrices to Experimental ...

Application of Orthogonal Experimental Design for the Automatic Software Testing According to inputting different combination of conditions so as to produce different impacts, software testing designs a large number of test cases If the implementation of an overall test, due to the limit of the ...

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Orthogonal experiments designing The quantitative evaluation and statistic analysis of the effects of solution properties and processing parameters were investigated on the fiber diameter and morphologies through orthogonal experiments design- ing.10Six relevant factors were investigated: the concentration of polymer solution, applied voltage, molecular weight (MW) of matrix polymer, flow velocity of polymer solution, solvent system, and nozzle size.

Investigation on Process Parameters of Electrospinning ...

design of the experiment. After obtaining the sufficient experimental unit, the treatments are allocated to the experimental units in a random fashion. Design of experiment provides a method by which the treatments are placed at random on the experimental units in such a way that the responses are estimated with the utmost precision possible.

Chapter 4 Experimental Designs and Their Analysis

Example of orthogonal factorial design Orthogonality concerns the forms of comparison (contrasts) that can be legitimately and efficiently carried out. Contrasts can be represented by vectors and sets of orthogonal contrasts are uncorrelated and independently distributed if the data are normal.

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