

## Application Of Orthogonal Experimental Design For The

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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.

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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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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 e.xperimenta1 runs and be able to estimate separately the effects of each of the parameters on a response variable.

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

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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.