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Application of
Taguchi L27
orthogonal array
design to ...
Since the
conventional
experimental design
techniques were
applied to industrial
applications or

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processes, these conventional methods were always covered with drawbacks and limitations. And Taguchi array, also known as orthogonal array design, adds a new dimension to conventional experimental design.

14.1: Design of Experiments via

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Taguchi Methods ...
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The design of
experiments (DOE,
DOX, or experimental

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design) is the design of any task that aims to describe and explain the variation of information under conditions that are hypothesized to reflect the variation. The term is generally associated with experiments in which the design introduces conditions that directly affect the

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variation, but may
also refer to the
design of quasi-
experiments ...

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

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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.

Application of
Orthogonal
Experimental Design
on ...

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Of Orthogonal
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Experimental Design
for the Automatic
Software Testing |
According to inputting
different combination
of conditions so as to
produce different
impacts ...

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Of Orthogonal Experimental Design

The orthogonal experimental design method is a highly efficient way capable of dealing with multifactor experiments and screening optimum levels by using the orthogonal design table. Before making an orthogonal design

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table, reasonable and representative levels of all factors are determined at first according to theories or a few experiments.

Design of
experiments -
Wikipedia

A description is given
of the first application
to LEED

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crystallographic problems of an optimization scheme called orthogonal experimental design (OED) which economizes on selection of trial values. The operational procedures required by the OED method are described, and their use in a LEED

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intensity analysis of
Experimental
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surface is discussed.

Application of
Orthogonal
Experimental Design
for the ...

[1] Dashan SUI and
Zhenshan CUI,
Application of
orthogonal
experimental design
and Tikhonov

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regularization method
Experimental
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parameters in the
casting solidification
process, Acta Metall.
Sin. (Engl. Lett.)Vol.
22 No. 1 pp.13-21
Feb. (2009). DOI: 10.
1016/s1006-7191(08)
60065-4

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Experimental
APPLICATION OF
ORTHOGONAL EXP
ERIMENTAL-DESIGN
TO LEED CRYSTALL
OGRAPHY . By WS
YANG, F JONA and
PM MARCUS. Cite .
BibTex; Full citation;
Abstract. Engineering,
Electrical & Elect
ronicNanoscience
& Nanotechnolog
yPhysics ...

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orthogonal
experimental design
in synthesis ...

An orthogonal
experimental design
method combining
with quantitative
analysis of small-
angle X-ray scattering
(SAXS) pattern was
applied to optimize
the synthesis of

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bioactive glasses with
highly ordered
mesoporous structure
(MBGs).

Application of
Orthogonal
Experimental Design
for the ...
viewed as an adaptive
experimental design
for the optimal input.
Bandit optimization
and experimental

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design in general
have been
successfully used in
many applications
such as clinical trials
(Lizotte 2008),
parameter tuning
(Kirschner et al. 2019)
and reinforcement
learning (Gopalan,
Mannor, and Mansour
2014).

Experimental Design

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for Optimization of
Orthogonal ...

The experimental design proposed by Taguchi involves using orthogonal arrays to organize the parameters affecting the process and the levels at which they should be varies. Instead of having to test all possible combinations like the

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factorial design, the
Taguchi method tests
pairs of combinations.

Robust Design and
Taguchi Method
Application
Taguchi design of
experiment was
proposed by Genichi
Taguchi [32], which
simplified the
statistical design
efforts by using

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orthogonal array.

Application of this
method can

considerably minimize
the costs and number
of experiments.

Application of taguchi
L16 orthogonal array
design to ...

The strategy of
experimental design
used in the Taguchi
method is based on

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orthogonal arrays and fractional factorial, in which not all possible combinations of factors and levels are tested. It is useful to estimate the effects of main factors on the process.

Applying Orthogonal
Array Design Matrices
to Experimental ...

The application of

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orthogonal
experimental design
to identify the
interactive forces
driving people's
perceptions of
ecosystem services
Rui Zhang BeiJing
Normal University,
China (1160877119@
qq.com) People's
perception of
ecosystem services is
usually affected by a

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variety of interacting factors,

The application of orthogonal experimental design to ...

Application of taguchi L 16 orthogonal array design to optimize hydrazine biosorption by Sargassum ilicifolium. ... Taguchi L 16 experimental

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design was applied to optimize biosorption of hydrazine by *Sargassum ilicifolium* in a batch system. ... Optimal experimental conditions were determined by calculated signal-to-noise ratios.

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ERIMENTAL-DESIGN

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Experimental
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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 ...
the application of thts
methodology to fire in

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a realistic dry bay
facility.

Application of
Orthogonal
Experimental Design
for the ...

In the present paper,
the effects of four
structural parameters
at three levels on the
reliability and
sensitivity of structure
are investigated.

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Sensitivity of parameters is achieved by the range analysis and the significance of parameters is achieved by the variance analysis. A response surface based on orthogonal experimental design and finite element calculations is elaborated so that the

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