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Application Of Box Behnken Design

The designs such as Doehlert Design, Box-Behnken Design (BBD) or Central-Composite Design can be applied to optimize the chromatographic conditions. The application of a proper design leads to the...

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The application of Box-Behnken- Design in the optimization ...

Abstract. Ultrasound treatment is widely used in food industries in order to improve the food quality. In present study, the Box-Behnken design was used to determine the optimum experimental conditions of sugar replacement with

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ultrasound treated pectin in both the cake batter and final cake product.

Application of Box-Behnken design in optimization of ...

The Box-Behnken experimental design was used to provide data for modeling and the variables of model were Bond work index, grinding time and ball

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diameter of mill. Coal grinding tests were performed changing these three variables for three size fractions of coals ($-3350 + 1700 \mu\text{m}$, $-1700 + 710 \mu\text{m}$ and $-710 \mu\text{m}$).

Application of Box-Behnken design and response surface ...

Box-Behnken design (BBD) followed by

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Derringer's desirability function was utilized to optimize the experimental variables of spectrophotometric method. The proposed method has been extended for estimation of acetazolamide in commercial tablets and human urine samples. 2.

Application of Box-Behnken design

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This paper discusses the use of Box Behnken design approach to plan the experiments for turning Inconel 718 alloy with an overall objective of optimizing the process to yield higher metal removal, better surface quality and lower cutting forces.

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Application of Box Behnken design to optimize the ...

Box-Behnken design allows calculation of the response to be made at intermediate levels which were not experimentally studied. A three-level Box-Behnken design was employed in the present study and the optimal conditions were determined through a

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minimal experiment number compared with other designs [12].

Application of Box-Behnken Design in Optimization of ...

Application of Box-Behnken Design to
Hybrid Electrokinetic-Adsorption
Removal of Mercury from Contaminated
Saline-Sodic Clay Soil. Mohammed H.

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Essa. Department of Civil and Environmental Engineering, King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia. View further author information.

Application of Box-Behnken Design to Hybrid Electrokinetic ...

Box-Behnken designs are used to

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generate higher order response surfaces using fewer required runs than a normal factorial technique, see [10]. This and the central composite techniques essentially suppress selected runs in an attempt to maintain the higher order surface definition.

Box-Behnken Design - an overview |

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ScienceDirect Topics

The application of Box-Behnken designs for optimization of analytical methods still is limited, but different applications of these designs in the optimization of procedures involving several analytical techniques are presented in this paper.

Box-Behnken design: An alternative

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for the optimization of ...

The present paper describes fundamentals, advantages and limitations of the Box-Behnken design (BBD) for the optimization of analytical methods. It establishes also a comparison between this design...

(PDF) Box-Behnken design: An

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The Box-Behnken experimental design and response surface methodology were applied for modeling the influence of some variables on the performance of coal flotation. Flotation experiments were designed and executed by a laboratory flotation machine, considering collector dosage, frother

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dosage, and stirring speed as variables.

Application of Box-Behnken design and response surface ...

Application of Box-Behnken design in optimization for crude polysaccharides from fruits of *Tribulus terrestris* L. Guowei Shu*, Chunji Dai, He Chen and Xu Wang
College of Life Science and Engineering,

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Shaanxi University of Science and
Technology, Xi'an, China

Research Article ISSN : 0975-7384
CODEN(USA) : JCPRC5

A Box-Behnken design was applied, and the response (dye removal) was maximized. A maximal dye removal (81.6%) was attained when wastewater

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was treated at pH 2.5 in the presence of nano-hematite and hydrogen peroxide in the amounts of 41 and 388 mg/L, respectively. The model is well fitted and described using the second-order polynomial equation.

**Application of Box-Behnken
factorial design for parameters ...**

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Application of Box-Behnken design for ultrasound-assisted extraction and recycling preparative HPLC for isolation of anthraquinones from *Cassia singueana*. Jibril S(1)(2), Basar N(1), Sirat HM(1), Wahab RA(1), Mahat NA(1), Nahar L(3), Sarker SD(3).

Application of Box-Behnken design

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A 3-factor, 3-level Box-Behnken design was used for the optimization procedure, with the molar ratio of CaCl_2 : Na_2CO_3 (X1), the concentration of drug (X2), and the speed of homogenization (X3) as...

(PDF) Application of Box-Behnken design to prepare ...

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Application of Box-Behnken design with response surface methodology for modeling and optimizing ultrasonic oxidation of arsenite with H_2O_2 Central European Journal of Chemistry, 12 (2), 164-172. Application of Box-Behnken design with response surface methodology for modeling and optimizing ultrasonic oxidation of

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Application of Box-Behnken design with response surface ...

Application of Box-Behnken design to
prepare gentamicin-loaded calcium
carbonate nanoparticles. Maleki Dizaj
S(1)(2), Lotfipour F(3), Barzegar-Jalali
M(4), Zarrintan MH(4), Adibkia K(4).

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Application of Box-Behnken design to prepare gentamicin ...

Application of Box-Behnken design in
the preparation and optimization of

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fenofibrate-loaded self-microemulsifying drug delivery system (SMEDDS)

Application of Box-Behnken design in the preparation and ...

Design and methods such as Box Behnken, factorial design and Taguchi methods are now widely used in place of the one factor at a time experimental

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approach, which is time consuming and exorbitant in cost. Box Behnken summarized as a collection of statistical tools and techniques for constructing and exploring an approximate functional

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