

## Application Of Box Behnken Design To Optimize The

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Box – Behnken experimental design was used to optimize the GAS process variables for minimal dissolution time of MEF. A mathematical model was developed to study the effects of operating temperature, PAR-to-MEF molar ratio and %MEF saturation in the ranges of 25 ° C – 45 ° C, 3:1 – 5:1 and 70 – 90%, respectively.

### Application of Box – Behnken design for processing of ...

The variables involved in Box-Behnken design included sonication time (5 – 25 min), amplitude (20 – 60%), and sugar replacement level with ultrasound treated pectin (10 – 30%) to determine the effects on batter density and consistency index, and cake density, volume, hardness and chewiness.

### 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 diameter of mill. Coal grinding tests were performed changing these three variables for three size fractions of coals ( – 3350 + 1700 μ m, – 1700 + 710 μ m and – 710 μ m).

### Application of Box – Behnken design and response surface ...

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.

### 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 minimal experiment number compared with other designs [ 12 ].

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

Box-Behnken experimental design BBD was employed to examine the effects of four factors on the response function (absorbance). The independent factors were volumes of 0.5 mol L – 1 HCl (X 1 ), 5.6 × 10 – 4 mol L – 1 NBS (X 2 ), 4.2 × 10 – 2 mol L – 1 KBr (X 3 ) and 1.53 × 10 – 4 mol L – 1 methyl orange (X 4 ).

### Application of Box-Behnken design and desirability ...

Application of Box – Behnken Design to Investigate the Effect of Process Parameters on the Microparticle Production of Ethenzamide through the Rapid Expansion of the Supercritical Solutions Process by Yung-Tai Hsu and Chie-Shaan Su \*

### Application of Box – Behnken Design to Investigate the ...

Box-Behnken, a spherical and revolving design, has been applied in optimisation of chemical and physical processes (Oscar et al., 1999, Qiu and Chen, 1999; Muthukumar et al., 2003) because of its reasoning design and excellent outcomes.

### Application of Box-Behnken design in optimisation for ...

Application of Box-Behnken Design to Hybrid Electrokinetic-Adsorption Removal of Mercury from Contaminated Saline-Sodic Clay Soil Mohammed H. Essa Department of Civil and Environmental Engineering, King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia

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

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 for the optimization of ...

A 3-factor, 3-level Box-Behnken design was used for the optimization procedure, with the molar ratio of CaCl<sub>2</sub>: Na<sub>2</sub>CO<sub>3</sub> (X1), the concentration of drug (X2), and the speed of homogenization (X3) as the independent variables. The particle size and entrapment efficiency were considered as response variables.

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

Response surface methodology has been applied using Box-Behnken design for the statistics analysis. Heat affected zone and striation formation of laser cut surface were examined using scanning electron microscope and optical microscope.

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

In statistics, Box – Behnken designs are experimental designs for response surface methodology, devised by George E. P. Box and Donald Behnken in 1960, to achieve the following goals: Each factor, or independent variable, is placed at one of three equally spaced values, usually coded as – 1, 0, +1.

### Box – Behnken design - Wikipedia

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

Response surface methodology and Box – Behnken design In recent years, design of experiment (DOE) has been frequently applied to optimize analytical methods due to its advantages, such as a reduction in the number of experiments that need to be executed, which results in lower consumption and considerably less laboratory work ( Ferreira et al., 2007 ).

### Application of the Box – Behnken design to the optimization ...

Box – Behnken design (BBD) and its desirability function were used to optimize the SMEDDS. The independent factors were the amounts of Labrafil M 1944 CS, Labrasol, and Capryol PGMC and the dependent variables were droplet size, cumulative percentage of drug released in 30 min and equilibrium solubility of fenofibrate in SMEDDS.

### Application of Box – Behnken design in the preparation and ...

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 dosage, and stirring speed as variables.

### Application of Box – Behnken design and response surface ...

This combined process was successfully modeled and optimized using a Box-Behnken design with response surface methodology (RSM). The effects of the US power density, the initial concentration of...

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

Application of Box – Behnken design in the optimization of a simple graphene oxide/zinc oxide nanocomposite-based pipette tip micro-solid phase extraction for the determination of Rhodamine B and Malachite green in seawater samples by spectrophotometry S. H. Hashemi, M ...

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