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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 ArabiaApplication 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 $\text{CaCl}_2 : \text{Na}_2\text{CO}_3$ (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

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