A Further Step in Experimental Design (III): The Response Surface

By John A. Wass  May 10, 2013 1:20 pm EDT

Design of experiments (DOE) consists of three basic stages: screening (to identify important factors), response surface methodology (to define the optimal space), and model validation (to confirm predictions). A critical preliminary step in the screening stage is for subject matter experts to identify the key list of factors that might influence the process. A DOE design consists of a table whose rows represent experimental trials and whose columns (vectors) give the corresponding factor levels. In a DOE analysis, the factor level columns are used to estimate the corresponding factor main effects. Interaction...

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