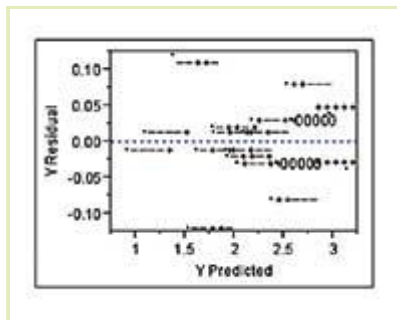


First Steps in Experimental Design II: More on Screening Experiments

By **John A. Wass** May 11, 2013 1:31 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 may 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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