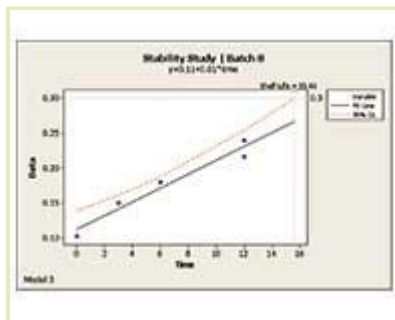


Linear Regression 102: Stability Shelf Life Estimation Using Analysis of Covariance

May 11, 2013 12:23 pm EDT



Analysis of covariance (ANCOVA) is an important kind of multiple regression that involves two predictor variables: one continuous (e.g., time) and one categorical (e.g., batch of material). Like simple linear regression, simple ANCOVA fits straight lines to response measurements (e.g., potency, related substance, or moisture content) over time: one line for each level (i.e., batch) of the categorical variable. A key objective of ANCOVA is to determine whether the straight lines for all batches are best described as having a common-intercept-common-slope (CICS) model, a separate-intercepts-common-slope...

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