

## **Technical Paper #803**

# **Exploration of Power Transformations with Monotonic Curvilinear Responses**

### **Abstract**

This article introduces a computational method to straighten monotonic curvilinear responses such as growth curves. This method includes estimating the index of the power transformation with the Newton-Raphson optimization technique using a SAS Macro. The properties of the estimate are examined using Monte Carlo simulation. Application of the method is discussed with examples.