New Features in SigmaXL *Version 11*

ADVANCED DESIGN OF EXPERIMENTS (DOE)

Extends DOE functionality to include:

- Improved 2-Level Factorial/Screening Designs:
  - o Expanded catalog with up to 128 design runs
  - o Up to 19 Continuous and/or Categorical Factors
  - o Aliasing of Effects Report with Interactions to Specified Order
- Augment 2-Level Factorial/Screening Design:
  - o Foldover Design
  - o Add Center/Axial Points
  - o Replicate Design
- General Full Factorial Designs:
  - o 1 to 10 Categorical Factors with 10 Levels
  - o Use 1 Categorical Factor with Block on Replicates for Randomized Complete Block Design
- Improved Response Surface Designs:
  - o Expanded catalog with up to 128 design (cube) runs
  - o Up to 8 Continuous Factors and 10 Categorical Factors with 8 Levels
  - o Central Composite Designs with minimum of 2 center points, Uniform Precision or Orthogonal Blocks
  - o Box-Behnken Designs for 3 to 7 Continuous Factors
- Definitive Screening Designs:
  - o Up to 19 Continuous and/or Categorical Factors (minimum of 2 Continuous)
- Optimal Designs:
  - o D-Optimal (recommended as an efficient general purpose alternative to classical screening and two-level factorial designs)
  - o I-Optimal (recommended for response surface designs)
  - o A-Optimal (recommended for screening designs)
  - o 1 to 19 Continuous and/or Categorical Factors (maximum of 10 Categorical Factors with 10 Levels)
  - o Continuous Factor linear constraint formulas
  - o Report of Optimal Design Diagnostic Metrics and Model Term SE and VIF values
- Improved power calculator with detailed power information (2-Level Factorial/Screening, Augment and General Full Factorial Designs)
- Fraction of Design Space (FDS) Plots (Augment 2-Level Factorial/Screening for Add Center/Axial Points, Definitive Screening, Response Surface and Optimal Designs)
- Option for randomized or equally spaced center points (2-Level Factorial/Screening, Definitive Screening and Response Surface Designs)
- Randomize runs with Seed (Base) as Clock or Specified Value
- Analysis (for all designs) uses Advanced Multiple Regression, with options such as Stepwise/Best Subsets and includes Multiple Response Optimization

NEW GRAPHICAL TOOLS

- Overlay Histograms & Descriptive Statistics
- Interaction Plot

DOWNLOAD A 30 DAY FREE TRIAL at www.SIGMAXL.com