StatEase®

DESIGN OF EXPERIMENTS MADE EASY

Powerful Product & Process Improvement

StatEase® 360

DESIGN EXPERT

About Us

A better product. An improved process. Stat-Ease, armed with an expertise in design of experiments (DOE), has been helping people make breakthroughs since 1985.

MAKE THE MOST FROM EVERY EXPERIMENT

Design Your Experiment

Lay out your ideal experiments with in-line power calculations and the ability to add blocks and center points. Design wizards and intuitive layouts make it all far easier than you'd even imagine.

Analyze Your Data

Easily see what is statistically significant and how to model the results most precisely. Gain the confidence you need to present, or even publish, your findings.

Visualize Your Results

Choose from a wide selection of graphs that help you identify standout effects and visualize your results. These outputs create a strong impression when you communicate your findings to supervisors and peers.

Design-Expert® and Stat-Ease® 360 Software: Major Features

Powerful, yet easy-to-use, computerized tools for design of experiments (DOE). Make the most from every experiment!

DESIGNEXPERT

Design

- Factorial and fractional-factorial designs, including minimum-run designs, optimal multi-level
- Response surface designs including central composite, Box-Behnken, optimal
- Mixture designs including screening, simplex and optimal
- Custom optimal combined designs for mixture-process, double-mixture, mixture-amount
- Split-plot designs for factorial, response surface and combined mixture-process
- Import/export capabilities with XML or Microsoft Excel

Design Augmentation

- Replicates, blocking, center points
- Foldover, semi-foldover, optimal augmentation
- Custom augmentation by shifting, expanding or contracting the design space

Analysis

- Design evaluation tools including standard error, fraction of design space (FDS)
- Model comparison summary table, multiple model reduction methods
- Analysis summary with ANOVA, Poisson regression, logistic regression, restricted maximum likelihood, and more
- Residual diagnostics and influence graphs including Box-Cox plot for transformations
- Propagation of error (POE)

Graphics

- One factor, multi-factor profiler, interaction, contour, 3D Surface, cube, perturbation/trace graphs
- 2D and 3D scatterplots, histogram, box plot, and custom graphs for plotting analysis data
- Customizable graphs & analysis interface

Post-Analysis

- Numerical & graphical optimization with confidence interval options
- Point prediction, confirmation run analysis

STAT-EASE 360

Contains all features included with Design-Expert, AND:

- Python integration for programmable customization
- Python libraries for Weibull analysis, Poisson variation, and more
- Random block analysis
- Space-filling designs for computer experiments
- Gaussian process models for zero-error and noisy experiments
- Threshold and ROC curves for logistic classification