



# Design and Analysis of Experiments by Douglas Montgomery: A Supplement for Using JMP

*Heath Rushing, Jim Wisnowski, Andrew Karl*

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With a growing number of scientists and engineers using JMP software for design of experiments, there is a need for an example-driven book that supports the most widely used textbook on the subject, *Design and Analysis of Experiments by Douglas C. Montgomery*. *Design and Analysis of Experiments by Douglas Montgomery: A Supplement for Using JMP* meets this need and demonstrates all of the examples from the Montgomery text using JMP. In addition to scientists and engineers, undergraduate and graduate students will benefit greatly from this book.

While users need to learn the theory, they also need to learn how to implement this theory efficiently on their academic projects and industry problems. In this first book of its kind using JMP software, Rushing, Karl and Wisnowski demonstrate how to design and analyze experiments for improving the quality, efficiency, and performance of working systems using JMP.

Topics include JMP software, two-sample t-test, ANOVA, regression, design of experiments, blocking, factorial designs, fractional-factorial designs, central composite designs, Box-Behnken designs, split-plot designs, optimal designs, mixture designs, and 2 k factorial designs. JMP platforms used include Custom Design, Screening Design, Response Surface Design, Mixture Design, Distribution, Fit Y by X, Matched Pairs, Fit Model, and Profiler.

With JMP software, Montgomery's textbook, and *Design and Analysis of Experiments by Douglas Montgomery: A Supplement for Using JMP*, users will be able to fit the design to the problem, instead of fitting the problem to the design.

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