



# Response Surface Methodology: Process and Product Optimization Using Designed Experiments

*Raymond H. Myers, Douglas C. Montgomery, Christine M. Anderson-Cook*

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### Praise for the *Second Edition*:

"This book [is for] anyone who would like a good, solid understanding of response surface methodology. The book is easy to read, easy to understand, and very applicable. The examples are excellent and facilitate learning of the concepts and methods."

—*Journal of Quality Technology*

Complete with updates that capture the important advances in the field of experimental design, *Response Surface Methodology*, Third Edition successfully provides a basic foundation for understanding and implementing response surface methodology (RSM) in modern applications. The book continues to outline the essential statistical experimental design fundamentals, regression modeling techniques, and elementary optimization methods that are needed to fit a response surface model from experimental data. With its wealth of new examples and use of the most up-to-date software packages, this book serves as a complete and modern introduction to RSM and its uses across scientific and industrial research.

This new edition maintains its accessible approach to RSM, with coverage of classical and modern response surface designs. Numerous new developments in RSM are also treated in full, including optimal designs for RSM, robust design, methods for design evaluation, and experiments with restrictions on randomization as well as the expanded integration of these concepts into computer software. Additional features of the *Third Edition* include:

- Inclusion of split-plot designs in discussion of two-level factorial designs, two-level fractional factorial designs, steepest ascent, and second-order models
- A new section on the Hoke design for second-order response surfaces
- New material on experiments with computer models
- Updated optimization techniques useful in RSM, including multiple responses
- Thorough treatment of presented examples and experiments using JMP 7, Design-Expert Version 7, and SAS software packages
- Revised and new exercises at the end of each chapter
- An extensive references section, directing the reader to the most current RSM research

Assuming only a fundamental background in statistical models and matrix algebra, *Response Surface Methodology*, Third Edition is an ideal book for statistics, engineering, and physical sciences courses at the upper-undergraduate and graduate levels. It is also a valuable reference for applied statisticians and practicing engineers.

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