



Response Surface Methodology: Process and Product Optimization Using Designed Experiments

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

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"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."

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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.

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- 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
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- 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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