



## Engineering Statistics, 5th Edition

Douglas C. Montgomery, George C. Runger, Norma F. Hubele

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### DESCRIPTION

Montgomery, Runger, and Hubele's *Engineering Statistics, 5th Edition* provides modern coverage of engineering statistics by focusing on how statistical tools are integrated into the engineering problem-solving process. All major aspects of engineering statistics are covered, including descriptive statistics, probability and probability distributions, statistical test and confidence intervals for one and two samples, building regression models, designing and analyzing engineering experiments, and statistical process control. This edition features new introductions, revised content to help students better understand ANOVA, new examples to help calculate probability and approximately 80 new exercises.

### ABOUT THE AUTHOR

**Douglas C. Montgomery**, Regents' Professor of Industrial Engineering and Statistics at Arizona State University, received his B.S., M.S., and Ph.D. degrees from Virginia Polytechnic Institute, all in engineering. From 1969 to 1984, he was a faculty member of the School of Industrial & Systems Engineering at the Georgia Institute of Technology; from 1984 to 1988, he was at the University of Washington, where he held the John M. Fluke Distinguished chair of Manufacturing Engineering, was Professor of Mechanical Engineering, and Director of the Program in industrial Engineering. He has authored and coauthored many technical papers as well as twelve other books. Dr. Montgomery is a Stewart Medalist of the American Society for Quality, and has also received the Brumbaugh Award, the William G. Hunter Award, and the Shewell Award (twice) from the ASQ.

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## NEW TO EDITION

- New introductions in each chapter demonstrate the relevance of statistics to engineering
  - Design of experiments content revised and inclusion of additional material helps students to better interpret computer software output related to ANOVA
  - New examples demonstrate calculating probability in Excel (Chapter 3)
  - Practical interpretations in example problems provide improved linking of statistical conclusions to the actual engineering decision outcome
  - Approximately 80 new exercises related to biology and health care (in most chapters)
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## FEATURES

- Accessible and manageable - presents important topics that can be covered in one semester
- Emphasis on professional practice - students get the coverage most useful to engineers with strong emphasis on data analysis and statistical inference with less focus on distributions and probability
- A strong focus on P-value approach to hypothesis testing familiarizes students with practical approaches to engineering problems
- Provides real engineering situations and applications as well as real data sets in examples and homework that help motivate students by applying statistics to the engineering profession
- A step-by-step problem solving approach integrated into examples

- Supports an active learning environment - reading questions and homework problems in WileyPlus help motivate and build student confidence with instant feedback. The supplemental problems and team exercises in the text can be used for in-class team activities, including designing experiments, generating data, and performing analyses.
- End of section exercises are structured to reinforce the concepts and techniques introduced in each section
- End of chapter supplemental exercises integrate concepts and techniques from multiple sections and reinforce student mastery of these concepts
- Team exercises challenge students to apply chapter methods and concepts to problems requiring data collection
- Software output in MINITAB throughout the text demonstrates the capability of modern statistical software

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