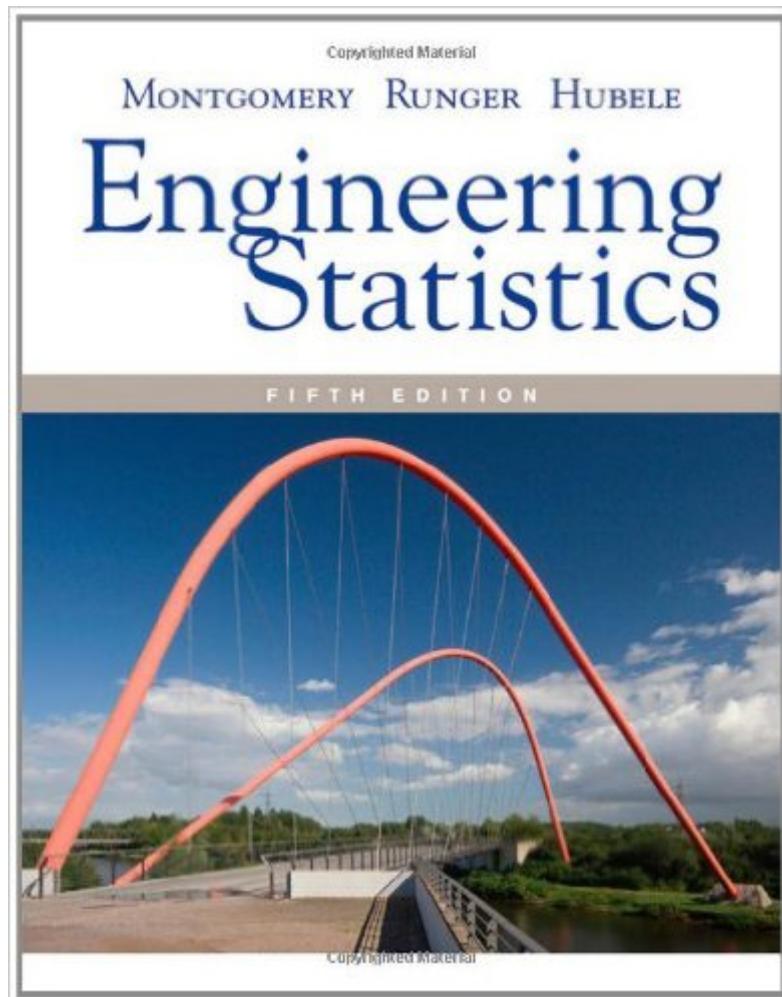


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# Engineering Statistics



## Synopsis

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.

## Book Information

Hardcover: 544 pages

Publisher: Wiley; 5 edition (December 21, 2010)

Language: English

ISBN-10: 0470631473

ISBN-13: 978-0470631478

Product Dimensions: 8.3 x 0.9 x 10 inches

Shipping Weight: 2.4 pounds (View shipping rates and policies)

Average Customer Review: 3.4 out of 5 stars (See all reviews) (45 customer reviews)

Best Sellers Rank: #354,029 in Books (See Top 100 in Books) #183 in Books > Textbooks > Engineering > Industrial Engineering #233 in Books > Computers & Technology > Software > Mathematical & Statistical #1365 in Books > Engineering & Transportation > Engineering > Industrial, Manufacturing & Operational Systems

## Customer Reviews

This was the prescribed textbook for my statistics course. The book was not my choice, but I thought to myself, any stats textbook is a good stats textbook. Let me go through the good points first, then I will talk about the issues. From content alone, I think this book is the first book that completely covers the critical aspects of statistics. I have never come across any text that explains the relationship between Type I and Type II errors as detailed and meticulously as this book. Other areas, such as ANOVA and decision making, are also very well covered. It might take a couple of readings to fully understand it, but in the end they did the best they could to explain these otherwise very difficult topics. I also liked the on-line support provided for the instructors. Contents and solutions could be easily obtained in digital format, and it saved some time for preparing lecture

notes on Powerpoint. However, I found this textbook a little difficult to teach from directly. On the topic of confidence interval and hypothesis testing, the authors decided to lump it all in one giant unit. Yes, according to them, confidence interval is a special case of hypothesis testing, and yes, I think this way is much more coherent. On the other hand, this would be a almost vertical learning curve for students so I went back to the "old" way of teaching confidence interval first in my lectures. The number of errors in the books also bugged me somewhat. Whole terms in formulae would either be missing, or not defined at all. There was also another section, where the authors went off tangent on a topic. I was left wondering why they went on and on for pages until I saw an ad spot for some of their other textbooks.

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