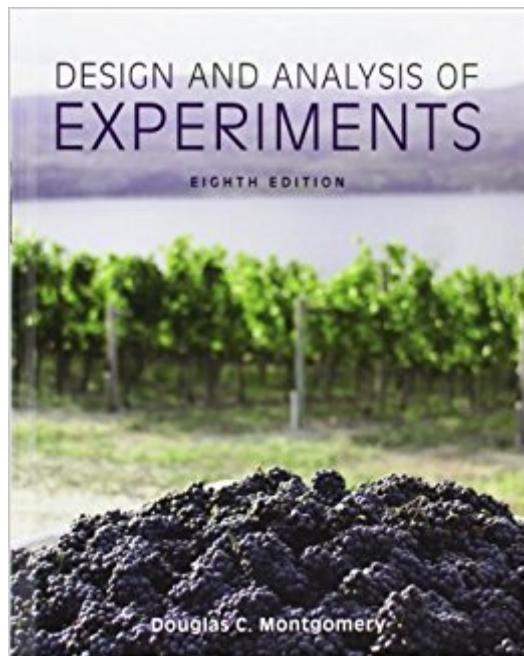


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# Design And Analysis Of Experiments



## **Synopsis**

The eighth edition of this best selling text continues to help senior and graduate students in engineering, business, and statistics-as well as working practitioners-to design and analyze experiments for improving the quality, efficiency and performance of working systems. The eighth edition of Design and Analysis of Experiments maintains its comprehensive coverage by including: new examples, exercises, and problems (including in the areas of biochemistry and biotechnology); new topics and problems in the area of response surface; new topics in nested and split-plot design; and the residual maximum likelihood method is now emphasized throughout the book. Continuing to place a strong focus on the use of the computer, this edition includes software examples taken from the four most dominant programs in the field: Design-Expert, Minitab, JMP, and SAS.

## **Book Information**

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## **Customer Reviews**

I'm actually in Montgomery's class at ASU. The book is a great companion to the already great lectures, and the practice problems are very helpful. The math and theory is explained in excruciating detail, if you're into that sort of thing. You'd be hard-pressed to find a finer tome about design of experiments and basic statistics. With that being said, each edition adds and omits some information. So the current edition is up-to-date with current methods and research, but if you wanted to get an older edition, you could probably scrimp by. Some of the practice problems are different between the editions as well (in part to capitalize on the new content and remove the old), but if you don't have assigned bookwork in your class you could definitely get away with it.

Alternately, you could also get a much cheaper older edition as well as the current edition solutions manual for half the cost of the book (at the time I bought mine). Only throwing this last bit in there because I know what it's like to be a poor, overworked engineering student and this might help you if you need options. ;)

An excellent text that has greatly reinforced some course material that only provided a very preliminary exposure to design and analysis of experiments. With my initial course work, self-study of this text, and acquisition of a stats package (I'm using JMP) I'm now prepared to advocate the use of design of experiments for a test program in my workplace which I expect will provide a better answer for lower cost and time than our traditional approach of testing one threshold at a time to accept a developmental system. This text book was cited as a valuable resource in a July 2013 internal memo by the U.S. DoD Director of Operational Test and Evaluation which was another reason I chose this book from several alternative texts I'd researched.

If you're reading this review, there's a good chance that you are currently enrolled in Dr. Montgomery's "Design of Engineering Experiments" class. Prior to starting this class, I didn't have substantial knowledge on developing and analyzing experiments (above and beyond what was taught in undergraduate and masters classes) - but this class has proven one of the best that I have taken during my PhD. The book relies heavily on the JMP statistical processing software, so it is beneficial to also have this program installed in order to check book problem answers, and follow along on some of the book examples. The book lays out everything in a straightforward way, and I'm sure would be a valuable tool to all scientists and those in academia who are looking for reference material or a refresher on designing and analyzing experiments.

This international edition is the seventh edition, not the eighth as advertised. The text is out of order which is manageable, but the questions for each chapter are different which is unacceptable if this book is being advertised as the eighth. I can't use it at all for my coursework.

Book description was not as promised. Was sent an International Student Version that specifically says it is restricted for sale in India, Bangladesh, Nepal, Pakistan, Sri Lanka & Bhutan. This might be okay if it was identical to the original version, but many of the problems are different.

Overall a very well written book that goes into great detail about most common aspects of

experimental design. The only issue I had with this book was the adjustment to its style of writing and presentation of the information earlier on in the course. The first couple chapters were a little bit hard to fully appreciate the mathematics behind the statistics which in turn made understanding the important parts of the experimental design a little difficult. However, once you understand how to pull out particular information such as how the actual equations of certain designs differ from one another as well as the assumptions and constraint differences between fixed and random effects models the book is very consistent and easy to follow. This was for a graduate level statistics course.

The text is well written. The homework problems are useful when testing personal knowledge. The only downfall is if you need extra help. This book will teach you the necessary information, but if you need a book that has examples giving you a specific step by step process of what to write next then this is not for you. This book is not for beginners, but students or readers who have a good background in statistics and are looking for ways to build upon their knowledge. It gives examples, but you must use critical thinking in many cases to determine just exactly what steps were used to reach a specific conclusion. Other than that, this is a great textbook!

This is a very complete book on DOE with good examples and explanations all the way. However, I feel that this is not a "beginners book" but rather a book for people who already have some background in DOE and who want to increase their knowledge, or for people willing to put in a good deal of time to learn about the subject.

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