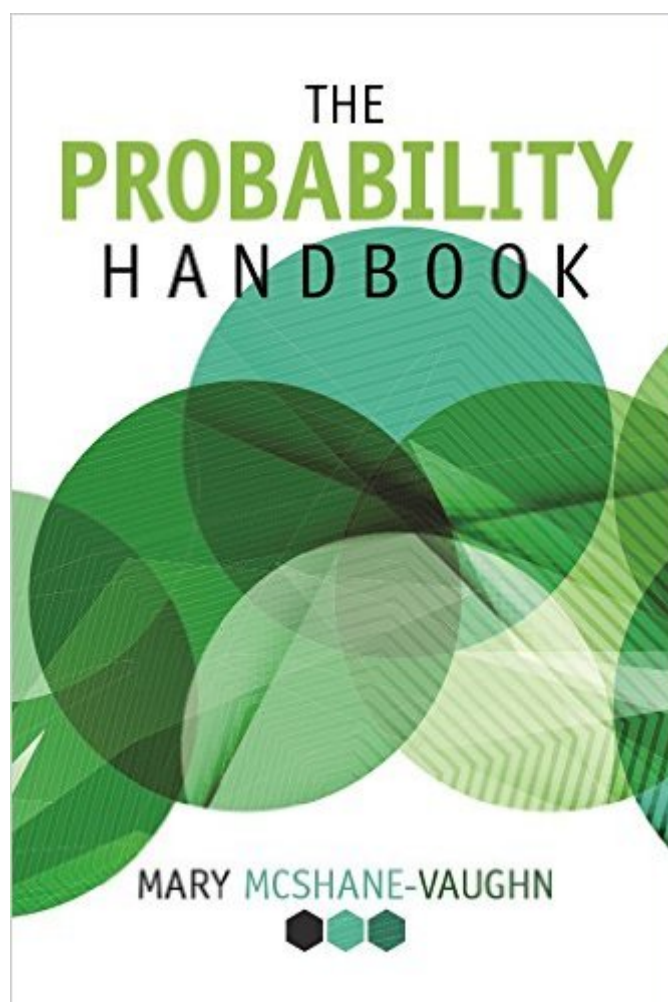


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# The Probability Handbook



## Synopsis

Probability is tough - even those fairly well versed in statistical analysis balk at the prospect of tackling it. Many probability concepts seem counter-intuitive at first, and successful students must in effect train themselves to think in a totally new way. Mastery of probability takes a lot of time, and only comes from solving many, many problems. The aim of this text and its companion, The Probability Workbook, is to present the subject of probability as a tutor would. Probability concepts are explained in everyday language and worked examples are presented in abundance. In addition to paper-and-pencil solutions, solution strategies using Microsoft Excel functions are given. All mathematical symbols are explained, and the mathematical rigor is kept on an algebra level; calculus is avoided. This book is written for quality practitioners who are currently performing statistical and probability analyses in their workplaces, and for those seeking to learn probability concepts for the American Society for Quality (ASQ) Certified Quality Engineer, Reliability Engineer, Six Sigma Green Belt, Black Belt, or Master Black Belt exams.

## Book Information

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## Customer Reviews

Review: The Probability HandbookIt is a very good reference to statistics and 6-sigma books â “ as it goes deeper into the concepts behind the study of probability. A quantitative result that most of the time we use for our arguments but have little understanding as to how it was derived. It certainly opened up some interesting debates in my household because just when you think you know the

answer, Dr. Mc-Shane-Vaughn has a different perspective that made sense but not commonly thought of as a typical response. Humor is sprinkled all throughout the text, encouraging students to have fun with probabilities, but not lose the core building blocks of what is needed to understand the concepts. If you are somewhat convinced that the study of probability have practical uses all around us, this book will guide your journey through understanding why and why not, and help us make sound and practical decisions. Why helpful? The Probability Handbook provides very helpful examples to better visualize different counting techniques and probably concepts. There are fewer derivations, instead more practical ways of interpreting given formula. It also provides helpful tips on how to get the results using MS excel functions. Just when you are wondering how these probability distributions relate to everyday work, Dr. Mc-Shane-Vaughn provides you with a section which enumerates some examples on where these concepts are commonly used and applied in the industry. What I like most about this handbook is how it is organized, i.e. learn why use it, the concepts and rules from Chapters 1 thru 3 and if you deal mostly with attribute data, refer to Chapter 4, otherwise (continuous data), refer to Chapter 5. What are some cons?

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