



# Probability and Statistics for Computer Scientists, Second Edition

By Michael Baron

Download now

Read Online ➔

**Probability and Statistics for Computer Scientists, Second Edition** By Michael Baron

## *Student-Friendly Coverage of Probability, Statistical Methods, Simulation, and Modeling Tools*

Incorporating feedback from instructors and researchers who used the previous edition, **Probability and Statistics for Computer Scientists, Second Edition** helps students understand general methods of stochastic modeling, simulation, and data analysis; make optimal decisions under uncertainty; model and evaluate computer systems and networks; and prepare for advanced probability-based courses. Written in a lively style with simple language, this classroom-tested book can now be used in both one- and two-semester courses.

## **New to the Second Edition**

- Axiomatic introduction of probability
- Expanded coverage of statistical inference, including standard errors of estimates and their estimation, inference about variances, chi-square tests for independence and goodness of fit, nonparametric statistics, and bootstrap
- More exercises at the end of each chapter
- Additional MATLAB® codes, particularly new commands of the Statistics Toolbox

## *In-Depth yet Accessible Treatment of Computer Science-Related Topics*

Starting with the fundamentals of probability, the text takes students through topics heavily featured in modern computer science, computer engineering, software engineering, and associated fields, such as computer simulations, Monte Carlo methods, stochastic processes, Markov chains, queuing theory, statistical inference, and regression. It also meets the requirements of the Accreditation Board for Engineering and Technology (ABET).

## *Encourages Practical Implementation of Skills*

Using simple MATLAB commands (easily translatable to other computer languages), the book provides short programs for implementing the methods of probability and statistics as well as for visualizing randomness, the behavior of random variables and stochastic processes, convergence results, and Monte Carlo

simulations. Preliminary knowledge of MATLAB is not required. Along with numerous computer science applications and worked examples, the text presents interesting facts and paradoxical statements. Each chapter concludes with a short summary and many exercises.

 [Download Probability and Statistics for Computer Scientists ...pdf](#)

 [Read Online Probability and Statistics for Computer Scientis ...pdf](#)

# Probability and Statistics for Computer Scientists, Second Edition

*By Michael Baron*

**Probability and Statistics for Computer Scientists, Second Edition** By Michael Baron

## *Student-Friendly Coverage of Probability, Statistical Methods, Simulation, and Modeling Tools*

Incorporating feedback from instructors and researchers who used the previous edition, **Probability and Statistics for Computer Scientists, Second Edition** helps students understand general methods of stochastic modeling, simulation, and data analysis; make optimal decisions under uncertainty; model and evaluate computer systems and networks; and prepare for advanced probability-based courses. Written in a lively style with simple language, this classroom-tested book can now be used in both one- and two-semester courses.

## **New to the Second Edition**

- Axiomatic introduction of probability
- Expanded coverage of statistical inference, including standard errors of estimates and their estimation, inference about variances, chi-square tests for independence and goodness of fit, nonparametric statistics, and bootstrap
- More exercises at the end of each chapter
- Additional MATLAB® codes, particularly new commands of the Statistics Toolbox

## *In-Depth yet Accessible Treatment of Computer Science-Related Topics*

Starting with the fundamentals of probability, the text takes students through topics heavily featured in modern computer science, computer engineering, software engineering, and associated fields, such as computer simulations, Monte Carlo methods, stochastic processes, Markov chains, queuing theory, statistical inference, and regression. It also meets the requirements of the Accreditation Board for Engineering and Technology (ABET).

## *Encourages Practical Implementation of Skills*

Using simple MATLAB commands (easily translatable to other computer languages), the book provides short programs for implementing the methods of probability and statistics as well as for visualizing randomness, the behavior of random variables and stochastic processes, convergence results, and Monte Carlo simulations. Preliminary knowledge of MATLAB is not required. Along with numerous computer science applications and worked examples, the text presents interesting facts and paradoxical statements. Each chapter concludes with a short summary and many exercises.

## **Probability and Statistics for Computer Scientists, Second Edition** By Michael Baron Bibliography

- Sales Rank: #861786 in Books
- Brand: Brand: Chapman and Hall/CRC
- Published on: 2013-08-05
- Original language: English

- Number of items: 1
- Dimensions: 10.50" h x 7.25" w x 1.25" l, .0 pounds
- Binding: Hardcover
- 473 pages

 [Download Probability and Statistics for Computer Scientists ...pdf](#)

 [Read Online Probability and Statistics for Computer Scientis ...pdf](#)

## **Editorial Review**

### **Review**

"... an immensely readable text intended for junior undergraduate to beginning graduate students in computer-related fields, though it could be suitable for any calculus-based probability and/or mathematical statistics course. ... the book is well written, and very well suited to the target audience?individuals in computer-related fields. Through examples and exercises, the author does an excellent job demonstrating how probability and statistics are used in computer-related fields. The text could also be used for a standalone probability course or a two-semester probability and mathematical statistics sequence for mathematics and statistics students."

?*The American Statistician*, February 2015

"The author has done his homework on the statistical tools needed for the particular challenges computer scientists encounter in statistics. Since the author has taken great care to select examples that are interesting and practical for computer scientists, the book should hold special appeal for that group. ... The content is illustrated with numerous figures, and concludes with appendices and an index. The book is erudite and demands a reader with a firm background in calculus. It could work well as a required text for an advanced undergraduate or graduate course."

?James Van Speybroeck, *Computing Reviews*, January 2014

### **Praise for the First Edition:**

"... students of all majors will benefit from the author's fine presentation of applied probability models and computer simulation. I am seriously considering adopting it for a [probability-oriented course] ... the chapters on simulation and applied probability models are truly outstanding ..."

?Matthew A. Carlton, *The American Statistician*, August 2008

"...well-organized text seems designed as a gentle introduction to the mathematics of probability and statistics. ...helpful diagrams...surprisingly detailed."

?John Maindonald, *International Statistical Review*, Vol. 75, No. 2, 2007

"... an ideal textbook for computer science students. ... This book is primarily intended for junior undergraduate to beginning graduate level students majoring in computer-related fields. It can also be used by electrical engineering, mathematics, statistics, actuarial science, and other majors for a standard introductory statistics course. Graduate students can use this book to prepare for probability-based courses such as queuing theory, artificial neural networks, and computer performance. Overall, this well-written text can be used as a standard reference on probability and statistical methods, simulation and modeling tools."

?*Journal of the Royal Statistical Society*

"The book represents a good reference to all who are interested in statistics, modeling stochastic processes, and computer simulation. ... The book's material is invaluable and presented with clarity ..."

?*Journal of Applied Statistics*, 2007

### **About the Author**

**Michael Baron** is a professor of statistics at the University of Texas at Dallas. He has published two books

and numerous research articles and book chapters. Dr. Baron is a fellow of the American Statistical Association, a member of the International Society for Bayesian Analysis, and an associate editor of the *Journal of Sequential Analysis*. In 2007, he was awarded the Abraham Wald Prize in Sequential Analysis. His research focuses on the use of sequential analysis, change-point detection, and Bayesian inference in epidemiology, clinical trials, cyber security, energy, finance, and semiconductor manufacturing. He received a Ph.D. in statistics from the University of Maryland.

## **Users Review**

### **From reader reviews:**

#### **Gary Bloomfield:**

Book is to be different for every single grade. Book for children till adult are different content. We all know that that book is very important for people. The book Probability and Statistics for Computer Scientists, Second Edition has been making you to know about other knowledge and of course you can take more information. It is extremely advantages for you. The guide Probability and Statistics for Computer Scientists, Second Edition is not only giving you a lot more new information but also to become your friend when you really feel bored. You can spend your own personal spend time to read your e-book. Try to make relationship with the book Probability and Statistics for Computer Scientists, Second Edition. You never experience lose out for everything in the event you read some books.

#### **Jennifer Darby:**

Hey guys, do you wants to finds a new book to study? May be the book with the name Probability and Statistics for Computer Scientists, Second Edition suitable to you? Typically the book was written by popular writer in this era. Often the book untitled Probability and Statistics for Computer Scientists, Second Edition is one of several books in which everyone read now. This specific book was inspired many men and women in the world. When you read this publication you will enter the new dimensions that you ever know just before. The author explained their thought in the simple way, so all of people can easily to be aware of the core of this publication. This book will give you a wide range of information about this world now. So that you can see the represented of the world on this book.

#### **Floy Knowles:**

Reading a publication can be one of a lot of action that everyone in the world adores. Do you like reading book so. There are a lot of reasons why people fantastic. First reading a e-book will give you a lot of new data. When you read a e-book you will get new information due to the fact book is one of various ways to share the information or maybe their idea. Second, looking at a book will make you actually more imaginative. When you studying a book especially tale fantasy book the author will bring you to imagine the story how the characters do it anything. Third, it is possible to share your knowledge to some others. When you read this Probability and Statistics for Computer Scientists, Second Edition, you are able to tells your family, friends as well as soon about yours e-book. Your knowledge can inspire average, make them reading a publication.

**Sandra Black:**

Your reading sixth sense will not betray a person, why because this Probability and Statistics for Computer Scientists, Second Edition guide written by well-known writer who really knows well how to make book that could be understand by anyone who all read the book. Written with good manner for you, still dripping wet every ideas and publishing skill only for eliminate your current hunger then you still question Probability and Statistics for Computer Scientists, Second Edition as good book not just by the cover but also through the content. This is one reserve that can break don't ascertain book by its cover, so do you still needing another sixth sense to pick this kind of!? Oh come on your examining sixth sense already told you so why you have to listening to yet another sixth sense.

**Download and Read Online Probability and Statistics for Computer Scientists, Second Edition By Michael Baron #AJCG4HW5IXT**

# **Read Probability and Statistics for Computer Scientists, Second Edition By Michael Baron for online ebook**

Probability and Statistics for Computer Scientists, Second Edition By Michael Baron Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Probability and Statistics for Computer Scientists, Second Edition By Michael Baron books to read online.

## **Online Probability and Statistics for Computer Scientists, Second Edition By Michael Baron ebook PDF download**

### **Probability and Statistics for Computer Scientists, Second Edition By Michael Baron Doc**

Probability and Statistics for Computer Scientists, Second Edition By Michael Baron Mobipocket

Probability and Statistics for Computer Scientists, Second Edition By Michael Baron EPub

AJCG4HW5IXT: Probability and Statistics for Computer Scientists, Second Edition By Michael Baron