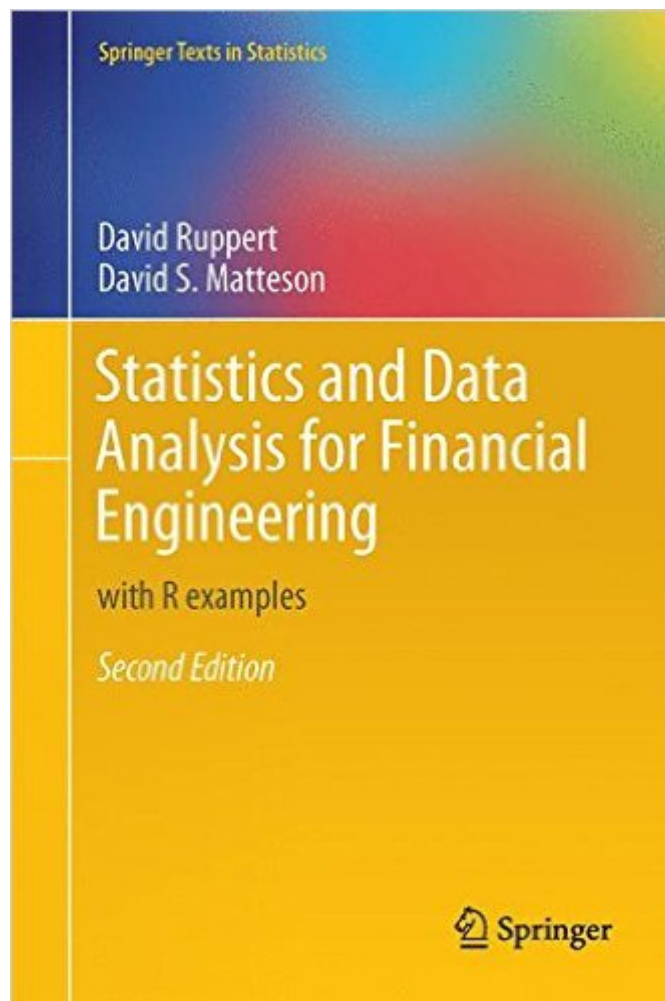# Statistics And Data Analysis For Financial Engineering: With R Examples (Springer Texts In Statistics)

Synopsis

The new edition of this influential textbook, geared towards graduate or advanced undergraduate students, teaches the statistics necessary for financial engineering. In doing so, it illustrates concepts using financial markets and economic data, R Labs with real-data exercises, and graphical and analytic methods for modeling and diagnosing modeling errors. These methods are critical because financial engineers now have access to enormous quantities of data. To make use of this data, the powerful methods in this book for working with quantitative information, particularly about volatility and risks, are essential. Strengths of this fully-revised edition include major additions to the R code and the advanced topics covered. Individual chapters cover, among other topics, multivariate distributions, copulas, Bayesian computations, risk management, and cointegration. Suggested prerequisites are basic knowledge of statistics and probability, matrices and linear algebra, and calculus. There is an appendix on probability, statistics and linear algebra. Practicing financial engineers will also find this book of interest.

Book Information

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Customer Reviews

The book includes concepts that are tremendously valuable, but the author is unable to explain these concepts in a lucid manner. Approximately 40% of the book is written in mathematical notation and the author rarely takes the time to define the notation that he uses. At times, it seems like the author purposefully obfuscates the material because his explanations on simple financial concepts are laboriously dense. The author cannot describe simple concepts such as the natural

log, or normal distributions in a lucid manner. In regard to more difficult concepts, the reader will be spending ample time at Khan Academy and on the web attempting to deduce the notation and concepts. This book is only useful for mathematicians that have a biblical grasp on mathematical notation.

Not enough example.

Useful book, fantastic!

Statistics and Data Analysis for Financial Engineering: with R examples (Springer Texts in Statistics) Analytics: Data Science, Data Analysis and Predictive Analytics for Business (Algorithms, Business Intelligence, Statistical Analysis, Decision Analysis, Business Analytics, Data Mining, Big Data) Data Analytics: Practical Data Analysis and Statistical Guide to Transform and Evolve Any Business. Leveraging the Power of Data Analytics, Data ... (Hacking Freedom and Data Driven) (Volume 2) Data Analytics: What Every Business Must Know About Big Data And Data Science (Data Analytics for Business, Predictive Analysis, Big Data) Time Series Analysis: With Applications in R (Springer Texts in Statistics) Time Series Analysis (Springer Texts in Statistics) Essentials of Stochastic Processes (Springer Texts in Statistics) A First Course in Bayesian Statistical Methods (Springer Texts in Statistics) A Modern Approach to Regression with R (Springer Texts in Statistics) An Introduction to Statistical Learning: with Applications in R (Springer Texts in Statistics) The Elements of Statistical Learning: Data Mining, Inference, and Prediction, Second Edition (Springer Series in Statistics) Regression Modeling Strategies: With Applications to Linear Models, Logistic Regression, and Survival Analysis (Springer Series in Statistics) Numerical Optimization (Springer Series in Operations Research and Financial Engineering) Sigma Delta Modulators: Nonlinear Decoding Algorithms and Stability Analysis (The Springer International Series in Engineering and Computer Science) A Primer For The Mathematics Of Financial Engineering, Second Edition (Financial Engineering Advanced Background Series) Solutions Manual - A Linear Algebra Primer for Financial Engineering (Financial Engineering Advanced Background Series) (Volume 4) Optics: Learning by Computing, with Examples Using MathCad (Springer Series in Operations Research) Corporate Taxation: Examples And Explanations (Examples & Explanations) Biomedical Engineering for Global Health (Cambridge Texts in Biomedical Engineering) The Mathematics of Medical Imaging: A Beginner's Guide (Springer Undergraduate Texts in Mathematics and Technology)