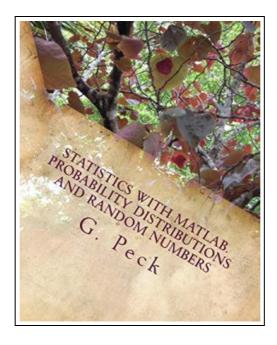
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Reviews

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(Prof. Damon Kautzer III)

STATISTICS WITH MATLAB. PROBABILITY DISTRIBUTIONS AND RANDOM NUMBERS (PAPERBACK)



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Createspace Independent Publishing Platform, 2017. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****. Probability distributions are theoretical distributions based on assumptions about asource population. The distributions assign probability to the event that a random variable has a specific, discrete value, or falls within a specified range of continuous values. Statistics and Machine Learning Toolbox offers several ways to work with probability distributions. -Use Probability Distribution Objects to fit a probability distributionobject to sample data, or to create a probability distribution object with specifiedparameter values. -Use Probability Distribution Functions to work with data input frommatrices, tables, and dataset arrays. -Use Probability Distribution Apps and User Interfaces to interactively fit, explore, and generate random numbers from probability distributions. Available apps and user interfaces include: -The Distribution Fitter app -The Probability Distribution Function user interface -The Random Number Generation user interface (randtool) Pseudorandom numbers are generated by deterministic algorithms. They are random in the sense that, on average, they pass statistical tests regarding their distribution and correlation. They differ from true random numbers in that they are generated by analgorithm, rather than a truly random process.Random number generators (RNGs) like those in MATLAB are algorithms for generatingpseudorandom numbers with a specified distribution. Methods for generating pseudorandom numbers usually start with uniform randomnumbers, like the MATLAB rand function produces, but MATLAB produce random numbers from other distributions. This book develops the work with probability distribution and random numbers across examples using MATLAB. The more important topics in the book are de next: -Working with Probability Distributions -Continuous Distributions (Data) -Continuous Distributions (Statistics) -Discrete Distributions -Multivariate Distributions -Nonparametric Distributions -Flexible Distribution Families -Maximum Likelihood Estimation - Negative Loglikelihood Functions - Random Number Generation - Nonparametric and Empirical Probability Distributions - Fit Kernel Distribution Object to Data -Fit Kernel Distribution Using ksdensity -Fit Distributions to Grouped Data Using ksdensity...



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