



## Statistics with MATLAB. Examples and Exercises (Paperback)

By Cesar Perez Lopez

Createspace Independent Publishing Platform, United States, 2013. Paperback. Condition: New. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.MATLAB is a platform for scientific computing that allows to work in virtually all areas of experimental sciences and engineering. Logically, this software allows to work in the field of statistics, presenting quite extensive capabilities. The number of commands that implements Matlab, concerning statistical work, is quite high and very efficient. In addition to statistical functions that implements the Basic module of the program Matlab presents a specific module for the statistical work called the Statistics Toolbox. The functions of this module allow to work in subjects such as descriptive statistics, probabilistic models, discrete and continuous random variables, confidence intervals and hypothesis contrasts, models of linear and non-linear regression, multivariate data analysis, quality control, design of experimentation and other content of industrial statistics. This book addresses all these materials to develop the following topics: Descriptive statistic Probability Discrete random variables Discrete probabilistic models Continuous random variables Continuous probabilistic models Confidence intervals Hypothesis tests Linear and non-linear regression Multivariate analysis Principal components analysis Discriminant analysis Cluster analysis Quality control Design of industrial statistics experiments Statistical functions of the basic module of...



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