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and replaces them with R software throughout and updates both MINITAB and IMP software instructions and content A new chapter discussing data mining including big data classification machine learning and visualization is featured Another new chapter covers cluster analysis methodologies in hierarchical nonhierarchical and model based clustering The book also offers a chapter on Response Surfaces that previously appeared on the book's companion website Statistics and Probability with Applications for Engineers and Scientists using MINITAB R and IMP Second Edition is broken into two parts Part I covers topics such as describing data graphically and numerically elements of probability discrete and continuous random variables and their probability distributions distribution functions of random variables sampling distributions estimation of population parameters and hypothesis testing Part II covers elements of reliability theory data mining cluster analysis analysis of categorical data nonparametric tests simple and multiple linear regression analysis analysis of variance factorial designs response surfaces and statistical quality control SQC including phase I and phase II control charts The appendices contain statistical tables and charts and answers to selected problems Features two new chapters one on Data Mining and another on Cluster Analysis Now contains R exhibits including code graphical display and some results MINITAB and JMP have been updated to their latest versions Emphasizes the p value approach and includes related practical interpretations Offers a more applied statistical focus and features modified examples to better exhibit statistical concepts Supplemented with an Instructor's only solutions manual on a book's companion website Statistics and Probability with Applications for Engineers and Scientists using MINITAB R and JMP is an excellent text for graduate level data science students and engineers and scientists It is also an ideal introduction to applied statistics and probability for undergraduate students in engineering and the natural sciences Statistics and Probability with Applications for Engineers and Scientists Bhisham C Gupta, Irwin Guttman, 2014-03-06 Introducing the tools of statistics and probability from the ground up An understanding of statistical tools is essential for engineers and scientists who often need to deal with data analysis over the course of their work Statistics and Probability with Applications for Engineers and Scientists walks readers through a wide range of popular statistical techniques explaining step by step how to generate analyze and interpret data for diverse applications in engineering and the natural sciences Unique among books of this kind Statistics and Probability with Applications for Engineers and Scientists covers descriptive statistics first then goes on to discuss the fundamentals of probability theory Along with case studies examples and real world data sets the book incorporates clear instructions on how to use the statistical packages Minitab and Microsoft Office Excel to analyze various data sets The book also features Detailed discussions on sampling distributions statistical estimation of population parameters hypothesis testing reliability theory statistical quality control including Phase I and Phase II control charts and process capability indices A clear presentation of nonparametric methods and simple and multiple linear regression methods as well as a brief discussion on logistic regression method Comprehensive guidance on the design of experiments including randomized block designs one

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