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Statistics and Probability with Applications for Engineers and Scientists (Hardback)

By Bhisham C. Gupta, Irwin Guttman

John Wiley Sons Inc, United States, 2013. Hardback. Book Condition: New. New.. 260 x 208 mm. Language: English . Brand New Book. 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(R) and Microsoft(R) Office Excel(R) 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...



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