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Tony Hayter is in touch with engineers daily--and understands their vocabulary. The result of this familiarity with the professional community is a clear and readable writing style that

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students understand and appreciate, as well as high-interest, relevant examples and data sets that keep students' attention. A flexible approach to the use of computer tools, including tips

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for using various software packages, allows instructors to choose the program that best suits their needs. At the same time, substantial computer output (using MINITAB and other programs)

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gives students the necessary practice in interpreting output. Extensive use of examples and data sets illustrates the importance of statistical data collection and analysis for students in the fields of

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***aerospace, biochemical, civil,
electrical, environmental,
industrial, mechanical, and
textile engineering, as well as
for students in physics,
chemistry, computing,
biology, management, and***

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mathematics. Important

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Probability Theory and

Page 153/174

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***Mathematical Statistics for
Engineers focuses on the
concepts of probability theory
and mathematical statistics for
finite-dimensional random
variables. The book
underscores the probabilities***

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***of events, random variables,
and numerical characteristics
of random variables.***

***Discussions focus on
canonical expansions of
random vectors, second-order
moments of random vectors,***

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generalization of the density concept, entropy of a distribution, direct evaluation of probabilities, and conditional probabilities. The text then examines projections of random vectors and their

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distributions, including conditional distributions of projections of a random vector, conditional numerical characteristics, and information contained in random variables. The book

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elaborates on the functions of random variables and estimation of parameters of distributions. Topics include frequency as a probability estimate, estimation of statistical characteristics,

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***estimation of the expectation
and covariance matrix of a
random vector, and testing the
hypotheses on the parameters
of distributions. The text then
takes a look at estimator
theory and estimation of***

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distributions. The book is a vital source of data for students, engineers, postgraduates of applied mathematics, and other institutes of higher technical education.

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***Originally published in 1991.
Textbook on the
understanding and application
of statistical procedures to
engineering problems, for
practicing engineers who once
had an introductory course in***

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statistics, but haven't used the techniques in a long time.

Suitable for self study Use real examples and real data sets that will be familiar to the audience Introduction to the bootstrap is included – this is

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*a modern method missing in
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*Probability and Statistics for
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Science

***Statistics for Engineers and
Scientists***

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with Examples in R teaches students how to use R software to obtain summary statistics, calculate probabilities and quantiles, find confidence intervals, and conduct statistical testing. The first chapter

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introduces methods for describing statistics. Over the course of the subsequent eight chapters students will learn about probability, discrete and continuous distributions, multiple random variables, point

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estimation and testing, and inferences based on one and two samples. The book features a comprehensive table for each type of test to help students choose appropriate statistical tests and confidence

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statistics, and specifically for students in the natural sciences or engineering. The material is also suitable for business and economics students who have studied calculus.

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rigorous introduction to basic probability theory and statistical inference, illustrated by relevant applications. It assumes a background in calculus and offers a balance of theory and methodology.

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Probability Theory and Statistical Methods for Engineers brings together probability theory with the more practical applications of statistics, bridging theory and practice. It gives a series of methods or

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recipes which can be applied to specific problems. This book is essential reading for practicing engineers who need a sound background knowledge of probabilistic and statistical concepts and methods of analysis for

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their everyday work. It is also a useful guide for graduate engineering students.

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Understanding Why and How

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with Applications for
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