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Statistics for Engineers and Scientists stands out for its crystal clear presentation of applied statistics. The book takes a practical approach to methods of statistical modeling and data analysis that are most often used in scientific work. This edition features a unique approach highlighted by an engaging writing style that explains difficult concepts clearly, along with the use of contemporary real world data sets, to help motivate students and show direct connections to industry and research. While focusing on practical applications of statistics, the text makes extensive use of examples to motivate fundamental concepts and to develop intuition. McGraw-Hill's Connect, is also available as an optional, add on item. Connect is the only integrated learning system that empowers students by continuously adapting to deliver precisely what they need, when they need it, how they need it, so that class time is more effective. Connect allows the professor to assign homework, quizzes, and tests easily and automatically grades and records the scores of the student's work. Problems are randomized to prevent sharing of answers an may also have a "multi-step solution" which helps move the students' learning along if they experience difficulty.

"Written by two of the leading figures in statistics, this highly regarded volume thoroughly addresses the full range of required topics." provides early discussed fundamental concepts such as variability, graphical representation of data, and randomization and blocking in design of experiments. provides a thorough introduction to descriptive statistics, including the importance of understanding variability, representation of data, exploratory data analysis, and time-sequence plots. explores principles of probability, probability distributions, and sampling distribution theory. discusses regression, design of experiments and their analysis, including factorial and fractional factorial designs.

The second edition of this book is intended to extend the strengths of the first. Some of the changes are: more than 200 new exercises have been added; a new section on point estimation has been added to Chapter 4; the material on histograms in Chapter 1 has been completely revised; Chapter 2 now contains a discussion of Chebyshev's inequality; Chapter 4 now contains a discussion of the uniform distribution; The section on the normal distribution contains a discussion on linear functions of normal random variables; Chapter 7 contains additional material on the correlation coefficient; Chapter 10 contains a discussion of the relationship between control charts and hypothesis tests. The exposition has been improved in a number of places. Also new for this edition is the ARIS online course management system. ARIS provides automatic grading of student assignments and keeps a record of students' grades. In addition, ARIS contains problems for student practice, along with Java applets that allow students to interactively explore ideas in the text.

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