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Andrei D. Polyanin, Alexei Chernoutsan



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Probabilistic Design for Optimization and Robustness for Engineers Bryan Dodson, Patrick Hammett, Rene Klerx, 2014-10-06 Probabilistic Design for Optimization and Robustness Presents the theory of modeling with variation using physical models and methods for practical applications on designs more insensitive to variation. Provides a comprehensive guide to optimization and robustness for probabilistic design. Features examples, case studies, and exercises throughout. The methods presented can be applied to a wide range of disciplines such as mechanics, electronics, chemistry, aerospace, industry, and engineering. This text is supported by an accompanying website featuring videos, interactive animations to aid the reader's understanding.

Applied Statistics and Probability for Engineers Douglas C. Montgomery, George C. Runger, 2007 This text brings statistical tools to engineers and scientists who design and develop new products, new manufacturing systems and processes, and who improve existing systems.

Solutions Manual to accompany Modern Engineering Statistics Thomas P. Ryan, 2012-01-20 An introductory perspective on statistical applications in the field of engineering. Modern Engineering Statistics presents state-of-the-art statistical methodology germane to engineering applications. With a nice blend of methodology and applications, this book provides and carefully explains the concepts necessary for students to fully grasp and appreciate contemporary statistical techniques in the context of engineering. With almost thirty years of teaching experience, many of which were spent teaching engineering statistics courses, the author has successfully developed a book that displays modern statistical techniques and provides effective tools for student use. This book features examples demonstrating the use of statistical thinking and methodology for practicing engineers. A large number of chapter exercises that provide the opportunity for readers to solve engineering-related problems, often using real data sets. Clear illustrations of the relationship between hypothesis tests and confidence intervals. Extensive use of Minitab and JMP to illustrate statistical analyses. The book is written in an engaging style that interconnects

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