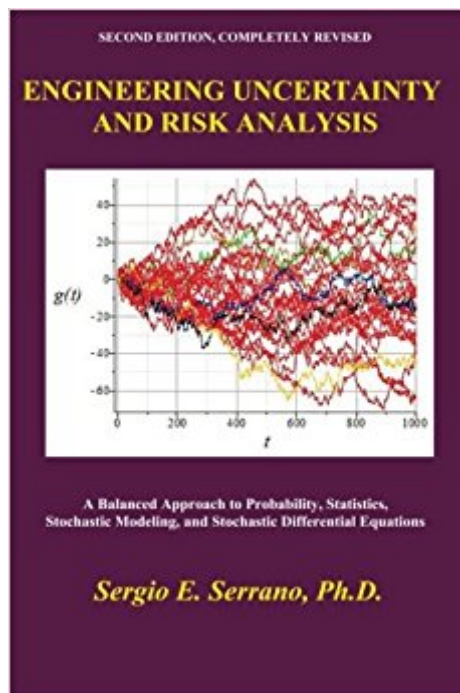


The book was found

Engineering Uncertainty And Risk Analysis, Second Edition: A Balanced Approach To Probability, Statistics, Stochastic Models, And Stochastic Differential Equations



Synopsis

An integrated coverage of probability, statistics, Monte Carlo simulation, inferential statistics, design of experiments, systems reliability, fitting random data to models, analysis of variance, stochastic processes, and stochastic differential equations. The author for first time presents an introduction to the broad field of applied engineering uncertainty analysis in one comprehensive, friendly, coverage. Each concept is illustrated with several examples of relevance in engineering applications (no cards, colored balls, or dice). This edition includes new research advances in nonlinear stochastic equations; simple methods to solve and graph boundary-value problems in several dimensions; 478 pages; 177 solved examples; 147 proposed problems; 174 illustrations, 69 short computer programs; and 51 data and statistical tables. AEROSPACE (from the Royal Aeronautical Society): "an integrated, balanced, and clear presentation to probability, statistics, stochastic models, and stochastic differential equations. The aim is to demonstrate to the reader that the fundamental principles are inherently simple and that the methods are practical and extremely useful in everyday engineering analysis or design. The book succeeds admirably in these aims." • QUALITY AND RELIABILITY INTERNATIONAL: "...discusses uncertainty in engineering... The essential differences are beautifully explained, providing a philosophical and practical basis for the rest of the book. This essential introduction is lacking in most books on statistics applications in engineering ...Overall, the book presents clear and interesting descriptions and explanations. The level of mathematics is appropriate to reasonably numerate engineers, and the use of spreadsheets and Maple enhance the practical value to engineers. I strongly recommend this book to design and systems engineers..." • STOCHASTIC ENVIRONMENTAL RESEARCH AND RISK ASSESSMENT: "...written in a clear and easy-to-understand manner. It requires no prior background in statistics... it has numerous solved practical examples... and a significant amount of new material. The emphasis is on concepts and their illustration, and the author has made a concerted effort in avoiding lengthy derivations and this is an attractive feature from a student's perspective."

Book Information

Paperback: 478 pages

Publisher: HydroScience, Incorporated; Second edition, completely revised. edition (January 4, 2011)

Language: English

ISBN-10: 0965564312

ISBN-13: 978-0965564311

Product Dimensions: 6 x 1.1 x 9 inches

Shipping Weight: 1.7 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars Â Â See all reviews Â (2 customer reviews)

Best Sellers Rank: #498,094 in Books (See Top 100 in Books) #69 in Â Books > Science & Math > Physics > Chaos Theory #1270 in Â Books > Textbooks > Science & Mathematics > Mathematics > Statistics #1926 in Â Books > Science & Math > Mathematics > Applied > Probability & Statistics

Customer Reviews

Bought for a class, and was useful in the class but would not suggest buying unless the book is a mandatory buy.

perfect

[Download to continue reading...](#)

Engineering Uncertainty and Risk Analysis, Second Edition: A Balanced Approach to Probability, Statistics, Stochastic Models, and Stochastic Differential Equations Differential Equations and Boundary Value Problems: Computing and Modeling (5th Edition) (Edwards/Penney/Calvis Differential Equations) Differential Equations: Computing and Modeling (5th Edition) (Edwards/Penney/Calvis Differential Equations) Applied Partial Differential Equations with Fourier Series and Boundary Value Problems (5th Edition) (Featured Titles for Partial Differential Equations) Fundamentals of Differential Equations and Boundary Value Problems (6th Edition) (Featured Titles for Differential Equations) Fundamentals of Differential Equations (8th Edition) (Featured Titles for Differential Equations) Student Solutions Manual for Differential Equations: Computing and Modeling and Differential Equations and Boundary Value Problems: Computing and Modeling Uncertainty: The Soul of Modeling, Probability & Statistics Statistics for People Who (Think They) Hate Statistics (Salkind, Statistics for People Who(Think They Hate Statistics(Without CD)) Elementary Stochastic Calculus With Finance in View (Advanced Series on Statistical Science & Applied Probability, Vol 6) (Advanced Series on Statistical Science and Applied Probability) Stochastic Integration in Banach Spaces: Theory and Applications (Probability Theory and Stochastic Modelling) Matrices With Applications in Statistics (Wadsworth statistics/probability series) Lectures on BSDEs, Stochastic Control, and Stochastic Differential Games with Financial Applications (SIAM Series on Financial Mathematics) Modeling Risk, + DVD: Applying Monte Carlo Risk Simulation, Strategic Real Options, Stochastic Forecasting, and Portfolio Optimization Schaum's Outline: Probability and Statistics, Second Edition The Climate Casino: Risk, Uncertainty,

and Economics for a Warming World Geometric Partial Differential Equations and Image Analysis
Dictionary of Analysis, Calculus, and Differential Equations (Comprehensive Dictionary of
Mathematics) Ordinary Differential Equations: Analysis, Qualitative Theory and Control (Springer
Undergraduate Mathematics Series) Symmetry Analysis of Differential Equations with
Mathematica®

[Dmca](#)