

The book was found

Probability Concepts In Engineering: Emphasis On Applications To Civil And Environmental Engineering (v. 1)





Synopsis

Apply the principles of probability and statistics to realistic engineering problems The easiest and most effective way to learn the principles of probabilistic modeling and statistical inference is to apply those principles to a variety of applications. That's why Ang and Tang's Second Edition of Probability Concepts in Engineering (previously titled Probability Concepts in Engineering Planning) and Design) explains concepts and methods using a wide range of problems related to engineering and the physical sciences, particularly civil and environmental engineering. Now extensively revised with new illustrative problems and new and expanded topics, this Second Edition will help you develop a thorough understanding of probability and statistics and the ability to formulate and solve real-world problems in engineering. The authors present each basic principle using different examples, and give you the opportunity to enhance your understanding with practice problems. The text is ideally suited for students, as well as those wishing to learn and apply the principles and tools of statistics and probability through self-study. Key Features in this 2nd Edition: * A new chapter (Chapter 5) covers Computer-Based Numerical and Simulation Methods in Probability, to extend and expand the analytical methods to more complex engineering problems. * New and expanded coverage includes distribution of extreme values (Chapter 3), the Anderson-Darling method for goodness-of-fit test (Chapter 6), hypothesis testing (Chapter 6), the determination of confidence intervals in linear regression (Chapter 8), and Bayesian regression and correlation analyses (Chapter 9). * Many new exercise problems in each chapter help you develop a working knowledge of concepts and methods. * Provides a wide variety of examples, including many new to this edition, to help you learn and understand specific concepts. * Illustrates the formulation and solution of engineering-type probabilistic problems through computer-based methods, including developing computer codes using commercial software such as MATLAB and MATHCAD. * Introduces and develops analytical probabilistic models and shows how to formulate engineering problems under uncertainty, and provides the fundamentals for guantitative risk assessment.

Book Information

Hardcover: 420 pages Publisher: Wiley; 2 edition (March 3, 2006) Language: English ISBN-10: 047172064X ISBN-13: 978-0471720645 Product Dimensions: 8 x 0.8 x 10.1 inches Shipping Weight: 2.1 pounds (View shipping rates and policies)
Average Customer Review: 4.2 out of 5 stars 18 customer reviews
Best Sellers Rank: #32,735 in Books (See Top 100 in Books) #9 inà Â Books > Textbooks >
Engineering > Environmental Engineering #34 inà Â Books > Textbooks > Engineering > Civil
Engineering #40 inà Â Books > Engineering & Transportation > Engineering > Civil &
Environmental > Environmental

Customer Reviews

Apply the principles of probability and statistics to realistic engineering problems The easiest and most effective way to learn the principles of probabilistic modeling and statistical inference is to apply those principles to a variety of applications. That $\tilde{A}\phi \hat{a} - \hat{a}_{,,\phi}\phi$ why Ang and Tang $\tilde{A}\phi \hat{a} - \hat{a}_{,,\phi}\phi$ Second Edition of Probability Concepts in Engineering (previously titled Probability Concepts in Engineering Planning and Design) explains concepts and methods using a wide range of problems related to engineering and the physical sciences, particularly civil and environmental engineering. Now extensively revised with new illustrative problems and new and expanded topics, this Second Edition will help you develop a thorough understanding of probability and statistics and the ability to formulate and solve real-world problems in engineering. The authors present each basic principle using different examples, and give you the opportunity to enhance your understanding with practice problems. The text is ideally suited for students, as well as those wishing to learn and apply the principles and tools of statistics and probability through self-study. Key Features in this 2nd Edition: A new chapter (Chapter 5) covers Computer-Based Numerical and Simulation Methods in Probability, to extend and expand the analytical methods to more complex engineering problems. New and expanded coverage includes distribution of extreme values (Chapter 3), the Anderson-Darling method for goodness-of-fit test (Chapter 6), hypothesis testing Â (Chapter 6), the determination of confidence intervals in linear regression (Chapter 8), and Bayesian regression and correlation analyses (Chapter 9). Many new exercise problems in each chapter help you develop a working knowledge of concepts and methods. Provides a wide variety of examples, including many new to this edition, to help you learn and understand specific concepts. Illustrates the formulation and solution of engineering-type probabilistic problems through computer-based methods, including developing computer codes using commercial software such as MATLAB and MATHCAD. Introduces and develops analytical probabilistic models and shows how to formulate engineering problems under uncertainty, and provides the fundamentals for quantitative risk assessment.

Good

I think the in-text explanations can be improved, but it makes more sense to me when I work on the examples which are plenty in this textbook. I couldn't find the answer keys to the problems that are at the end of the chapter. So how can I check if I am right or wrong on those problems?

book in a very good condition. no hand-marking inside.

Great book to learn stats.

Very good text for probabilistic engineering design. Amazing examples. This text is very good for mechanical engineers as well as civils.

Recieved in a good condition, useful topics, needed textbook for probability course.Comprehensive in "Analytical models of random phenomena" and "function of random variables" topics, includes Matlab codes for Monte carlo sampling(easy codes).One chapter for "regression and correlation analysis" which is easy to understand.

Great

I was disappointed because I expected examples of probability concepts applied to environmental engineering, but there is none in the book. Maybe there is no such book yet.

Download to continue reading...

Probability Concepts in Engineering: Emphasis on Applications to Civil and Environmental Engineering (v. 1) Introduction to Environmental Engineering (McGraw-Hill Series in Civil and Environmental Engineering) Living with the Earth, Third Edition: Concepts in Environmental Health Science (Living with the Earth: Concepts in Environmental Health Science) Hazardous Gases Underground: Applications to Tunnel Engineering (Civil and Environmental Engineering) Quantum Probability (Probability and Mathematical Statistics) Probability: 2 Manuscripts â⠬⠜ Probability with Permutations and Markov Models Intermediate Algebra: Concepts & Applications (9th Edition) (Bittinger Concepts & Applications) Civil War: American Civil War in 50 Events: From the Very Beginning to the Fall of the Confederate States (War Books, Civil War History, Civil War Books)

(History in 50 Events Series Book 13) Introduction to Probability and Statistics: Principles and Applications for Engineering and the Computing Sciences Environmental Soil Physics: Fundamentals, Applications, and Environmental Considerations Chirelstein's Federal Income Taxation: A Law Student's Guide to the Leading Cases and Concepts (Concepts and Insights) (Concepts and Insights Series) Strengthening of Reinforced Concrete Structures: Using Externally-Bonded Frp Composites in Structural and Civil Engineering (Woodhead Publishing Series in Civil and Structural Engineering) Fracture and Fatigue Control in Structures: Applications of Fracture Mechanics (Prentice-Hall International Series in Civil Engineering and Engineering) Mechanics) Freshwater Ecology, Second Edition: Concepts and Environmental Applications of Limnology (Aquatic Ecology) Freshwater Ecology: Concepts and Environmental Applications of Limnology (Aquatic Ecology) Practice Problems for the Civil Engineering PE Exam: A Companion to the Civil Engineering Reference Manual, 15th Ed Practice Problems for the Civil Engineering PE Exam: A Companion to the Civil Engineering Reference Manual, 14th Ed Practice Problems for the Civil Engineering PE Exam: A Companion to the Civil Engineering Reference Manual, 13th Ed Environmental Engineering and Sanitation (Environmental Science and Technology: A Wiley-Interscience Series of Texts and Monographs) Small-Scale Wind Power: Design, Analysis, and Environmental Impacts (Environmental Engineering Collection)

Contact Us DMCA Privacy FAQ & Help