

John E Freund Mathematical Statistics 6th Edition

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R. Kinney Donald F. Morrison William Johnson Frazer

this text is designed primarily for a two semester or three quarter calculus based course in mathematical statistics

intended for a two semester or a three quarter calculus based introduction to the mathematics of statistics course this calculus based introduction to the theory and application of statistics reflects the statistical thinking the teaching of statistics and practices including the use of the computer

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with tremendous improvement in computational power and availability of rich data almost all engineering disciplines use data science at some level this textbook presents material on data science comprehensively and in a structured manner it provides conceptual understanding of the fields of data science machine learning and artificial intelligence with enough level of mathematical details necessary for the readers this will help readers understand major thematic ideas in data science machine learning and artificial intelligence and implement first level data science solutions to practical engineering problems the book provides a systematic approach for understanding data science techniques explain why machine learning techniques are able to cross cut several disciplines covers topics including statistics linear algebra and optimization from a data science perspective provides multiple examples to explain the underlying ideas in machine learning algorithms describes several contemporary machine learning algorithms the textbook is primarily written for undergraduate and senior undergraduate students in different engineering disciplines including chemical engineering mechanical engineering electrical engineering electronics and communications engineering for courses on data science machine learning and artificial intelligence

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this book provides a thorough understanding of distribution theory and data analysis using statistical software to solve problems related to basic statistics probability models and simulation it presents a detailed explanation of different distribution concepts used in statistics along with their application in real life situations covering the analytical aspects using the latest software the volume discusses stochastic methods and other statistical methods it provides an overview of statistical data analysis by taking actual situations and implementing open source software r version 4 0 and python 3 0 a detailed study of the statistical models is also provided with examples related to health agriculture insurance and other sectors

introducing the tools of statistics and probability from the ground up an understanding of statistical tools is essential for engineers and scientists who often need to deal with data analysis over the course of their work statistics and probability with applications for engineers and scientists walks readers through a wide range of popular statistical techniques explaining step by step how to generate analyze and interpret data for diverse applications in engineering and the natural sciences unique among books of this kind statistics and probability with applications for engineers and scientists covers

descriptive statistics first then goes on to discuss the fundamentals of probability theory along with case studies examples and real world data sets the book incorporates clear instructions on how to use the statistical packages minitab and microsoft office excel to analyze various data sets the book also features detailed discussions on sampling distributions statistical estimation of population parameters hypothesis testing reliability theory statistical quality control including phase i and phase ii control charts and process capability indices a clear presentation of nonparametric methods and simple and multiple linear regression methods as well as a brief discussion on logistic regression method comprehensive guidance on the design of experiments including randomized block designs one and two way layout designs latin square designs random effects and mixed effects models factorial and fractional factorial designs and response surface methodology a companion website containing data sets for minitab and microsoft office excel as well as jmp routines and results assuming no background in probability and statistics statistics and probability with applications for engineers and scientists features a unique yet tried and true approach that is ideal for all undergraduate students as well as statistical practitioners who analyze and illustrate real world data in engineering and the natural sciences

this book has been written with the intention to fill two big gaps in the reliability and risk literature the risk based reliability analysis as a powerful alternative to the traditional reliability analysis and the generic principles for reducing technical risk an important theme in the book is the generic principles and techniques for reducing technical risk these have been classified into three major categories preventive reducing the likelihood of failure protective reducing the consequences from failure and dual reducing both the likelihood and the consequences from failure many of these principles for example avoiding clustering of events deliberately introducing weak links reducing sensitivity introducing changes with opposite sign etc are discussed in the reliability literature for the first time significant space has been allocated to component reliability in the last chapter of the book several applications are discussed of a powerful equation which constitutes the core of a new theory of locally initiated component failure by flaws whose number is a random variable offers a shift in the existing paradigm for conducting reliability analyses covers risk based reliability analysis and generic principles for reducing risk provides a new measure of risk based on the distribution of the potential losses from failure as well as the basic principles for risk based design incorporates fast algorithms for system reliability analysis and discrete event simulators includes the probability of failure of a structure with complex shape expressed with a simple equation

this book covers the application of algebraic inequalities for reliability improvement and for uncertainty and risk reduction it equips readers with powerful domain independent methods for reducing risk based on algebraic inequalities and demonstrates the significant benefits derived from the application for risk and uncertainty reduction algebraic inequalities provide a powerful reliability improvement risk and uncertainty reduction method that transcends engineering and can be applied in various domains of human activity present an effective tool for dealing with deep uncertainty related to key reliability critical parameters of systems and processes permit meaningful interpretations which link abstract inequalities with the real world offer a tool for determining tight bounds for the variation of risk critical parameters and complying the design with these bounds to avoid failure allow optimising designs and processes by minimising the deviation of critical output parameters from their specified values and maximising their performance this book is primarily for engineering professionals and academic researchers in virtually all existing engineering disciplines

regression and correlation models for two variables regression and correlation models with several independent variables further inference for regression models polynomial models for time series choosing a set of independent variables some methods for time series some further topics in regression analysis the analysis of variance for the one way layout the analysis of variance for higher way layout the analysis of covariance

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