

Peyton Peebles Probability

Probability, Random Variables, and Random Signal Principles
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Random Signals and Processes Primer with MATLAB
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Elements of Engineering Probability and Statistics
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Local Area Networks
Principles of Communication Systems
Modern Communications and Spread Spectrum
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today any well designed electrical engineering curriculum must train engineers to account for noise and random signals in systems the best approach is to emphasize fundamental principles since systems can vary greatly professor peebles s book specifically has this emphasis offering clear and concise coverage of the theories of probability random variables and random signals including the response of linear networks to random waveforms by careful organization the book allows learning to flow naturally from the most elementary to the most advanced subjects time domain descriptions of the concepts are first introduced followed by a thorough description of random signals using frequency domain practical applications are not forgotten and the book includes discussions of practical noises noise figures and noise temperatures and an entire special chapter on applications of the theory another chapter is devoted to optimum networks when noise is present matched filters and wiener filters this third edition differs from earlier editions mainly in making the book more useful for classroom use beside the addition of new topics poisson random processes measurement of power spectra and computer generation of random variables the main change involves adding many new end of chapter exercises 180 were added for a total of over 800 exercises the new exercises are all clearly identified for instructors who have used the previous edition

an introduction to rf propagation that spans all wireless applications this book provides readers with a solid understanding of the concepts involved in the propagation of electromagnetic waves and of the commonly used modeling techniques while many books cover rf propagation most are geared to cellular telephone systems and therefore are limited in scope this title is comprehensive it treats the growing number of wireless applications that range well beyond the mobile telecommunications industry including radar and satellite communications the author s straightforward clear style makes it easy for readers to gain the necessary background in electromagnetics communication theory and probability so they can advance to propagation models for near earth indoor and earth space propagation critical topics that readers would otherwise have to search a number of resources to find are included rf safety chapter provides a concise presentation of fcc recommendations including application examples and prepares readers to work with real world propagating systems antenna chapter provides an introduction to a wide variety of antennas and techniques for antenna analysis including a detailed treatment of antenna polarization and axial ratio the chapter contains a set of curves that permit readers to estimate polarization loss due to axial ratio mismatch between transmitting and receiving antennas without performing detailed calculations atmospheric effects chapter provides curves of typical atmospheric loss so that expected loss can

be determined easily rain attenuation chapter features a summary of how to apply the itu and crane rain models satellite communication chapter provides the details of earth space propagation analysis including rain attenuation atmospheric absorption path length determination and noise temperature determination examples of widely used models provide all the details and information needed to allow readers to apply the models with confidence references provided throughout the book enable readers to explore particular topics in greater depth additionally an accompanying wiley ftp site provides supporting mathcad files for select figures in the book with its emphasis on fundamentals detailed examples and comprehensive coverage of models and applications this is an excellent text for upper level undergraduate or graduate students or for the practicing engineer who needs to develop an understanding of propagation phenomena

this book provides anyone needing a primer on random signals and processes with a highly accessible introduction to these topics it assumes a minimal amount of mathematical background and focuses on concepts related terms and interesting applications to a variety of fields all of this is motivated by numerous examples implemented with matlab as well as a variety of exercises at the end of each chapter

this textbook provides a compendium of numerical methods to assist physics students and researchers in their daily work it carefully considers error estimates stability and convergence issues the choice of optimal methods and techniques to increase program execution speeds the book supplies numerous examples throughout the chapters that are concluded by more comprehensive problems with a strong physics background instead of uncritically employing modern black box tools the readers are encouraged to develop a more ponderous and skeptical approach this revised and expanded edition now includes a new chapter on numerical integration and stable differentiation as well as fresh material on optimal filtering integration of gravitational many body problems computation of poincaré maps regularization of orbits singular sturm liouville problems techniques for time evolution and spatial treatment of semi infinite domains in spectral methods and phase retrieval it also brings updated discussions of algebraic problems involving sparse matrices and of high resolution schemes for partial differential equations

introduction to applied statistical signal analysis third edition is designed for the experienced individual with a basic background in mathematics science and computer with this predisposed knowledge the reader will coast through the practical introduction and move on to signal analysis techniques commonly used

in a broad range of engineering areas such as biomedical engineering communications geophysics and speech topics presented include mathematical bases requirements for estimation and detailed quantitative examples for implementing techniques for classical signal analysis this book includes over one hundred worked problems and real world applications many of the examples and exercises use measured signals most of which are from the biomedical domain the presentation style is designed for the upper level undergraduate or graduate student who needs a theoretical introduction to the basic principles of statistical modeling and the knowledge to implement them practically includes over one hundred worked problems and real world applications many of the examples and exercises in the book use measured signals many from the biomedical domain

this book helps advanced undergraduate graduate and postdoctoral students in their daily work by offering them a compendium of numerical methods the choice of methods pays significant attention to error estimates stability and convergence issues as well as to the ways to optimize program execution speeds many examples are given throughout the chapters and each chapter is followed by at least a handful of more comprehensive problems which may be dealt with for example on a weekly basis in a one or two semester course in these end of chapter problems the physics background is pronounced and the main text preceding them is intended as an introduction or as a later reference less stress is given to the explanation of individual algorithms it is tried to induce in the reader an own independent thinking and a certain amount of scepticism and scrutiny instead of blindly following readily available commercial tools

this user friendly resource will help you grasp the concepts of probability and stochastic processes so you can apply them in professional engineering practice the book presents concepts clearly as a sequence of building blocks that are identified either as an axiom definition or theorem this approach provides a better understanding of the material which can be used to solve practical problems key features the text follows a single model that begins with an experiment consisting of a procedure and observations the mathematics of discrete random variables appears separately from the mathematics of continuous random variables stochastic processes are introduced in chapter 6 immediately after the presentation of discrete and continuous random variables subsequent material including central limit theorem approximations laws of large numbers and statistical inference then use examples that reinforce stochastic process concepts an abundance of exercises are provided that help students learn how to put the theory to use

responding to the needs of graduate engineers and abet criteria this volume illustrates the essentials of both probability and statistics through computer

exercises it features a wealth of computer exercises that provide experimental verification of probabilistic phenomena and a means for calculating and displaying complex results

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