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BLANCHARD RICHARDSON

Principles of Electrical *Engineering* Cambridge University Press This newly revised edition of a classic Artech House

book provides you with a comprehensive and current understanding of signal detection and estimation. Featuring a wealth of new and expanded material, the second edition introduces the concepts of adaptive CFAR detection and distributed CA-CFAR detection. The book provides complete explanations of the mathematics you need to fully master the material, including probability theory, distributions, and random processes. *Probability, Random Variables, and Random Signal Principles* Wiley-Interscience Probability, Random Variables, and Random Processes is a comprehensive textbook on probability theory for engineers that provides a more rigorous mathematical framework than is usually encountered in undergraduate courses. It is intended for first-year graduate students who have some familiarity with probability and random variables, though not necessarily of random processes and systems that operate on random signals. It is also appropriate for advanced undergraduate students who have a strong mathematical background. The book has the following features: Several appendices include related material on integration, important inequalities and identities, frequency-domain transforms, and linear algebra. These topics have been included so that the book is relatively self-contained. One appendix contains an

extensive summary of 33 random variables and their properties such as moments, characteristic functions, and entropy. Unlike most books on probability, numerous figures have been included to clarify and expand upon important points. Over 600 illustrations and MATLAB plots have been designed to reinforce the material and illustrate the various characterizations and properties of random quantities. Sufficient statistics are covered in detail, as is their connection to parameter estimation techniques. These include classical Bayesian estimation and several optimality criteria: mean-square error, mean-absolute error, maximum likelihood, method of moments, and least squares. The last four chapters provide an introduction to several topics usually studied in subsequent engineering courses: communication systems and information theory; optimal filtering (Wiener and Kalman); adaptive filtering (FIR and IIR); and antenna beamforming, channel equalization, and direction finding. This material is available electronically at the companion website. Probability, Random Variables, and Random Processes is the only textbook on probability for engineers that includes relevant background material, provides extensive summaries of key results, and extends various statistical techniques to a range of applications in signal processing.

Human-Computer Interaction: Interaction

Modalities and Techniques SciTech Publishing
Propagation Engineering in Wireless Communications covers the basic principles needed for understanding of radiowaves propagation for common frequency bands used in radio-communications. This book includes descriptions of new achievements and new developements in propagation models for wireless communication. The book is intended to bridge the gap between the theoretical calculations and approaches to the applied procedures needed for radio links design in a proper manner. The authors intention is to emphasize propagation engineering by giving sufficient fundamental information and then going on to explain the use of basic principles together with technical achievements in this field.
Applied Stochastic Processes Oxford University Press, USA
Principles of Modern Radar: Basic Principles is a comprehensive text for courses in radar systems and technology, a professional training textbook for formal in-house courses and for new hires; a reference for ongoing study following a radar short course and a self-study and professional reference book.
Probability, Statistics, and Random Signals John Wiley & Sons
The controversial question of whether the majority of the narrow absorption lines observed in QSO spectra represent

cosmological intervening systems or ejecta from the QSO themselves is settled. QSO absorption line spectroscopy, initially a mere technique, has matured into an essential extragalactic research tool for understanding the content of the Universe at redshifts between 0 and 4, and beyond. The only previous important meeting devoted to "QSO Absorption Lines" was held in May 1987 at the Space Telescope Science Institute in Baltimore, Maryland, U.S.A. Since that time, nearly a decade ago, research has been ex tremely active in this now well-established field of astrophysics. Theoretical stud ies and simulations have taken advantage of the constant progress in computer technology, and during these last few years, the observational results have bene fited largely from the new facillities offered by the Hubble Space Telescope in the UV wavelength range and the Keck Telescope for high-resolution spectroscopy.

Digital Control System Analysis and Design

Tata McGraw-Hill Education

The book covers basic concepts such as random experiments, probability axioms, conditional probability, and counting methods, single and multiple random variables (discrete, continuous, and mixed), as well as moment-generating functions, characteristic functions, random vectors, and inequalities; limit theorems and convergence; introduction to Bayesian and classical statistics; random processes including

processing of random signals, Poisson processes, discrete-time and continuous-time Markov chains, and Brownian motion; simulation using MATLAB and R.

Probability, Random Variables and Random Signal Principles Springer Science & Business Media

An advanced treatment of the main concepts of radar. Systematic andorganized, it nicely balances readability with mathematical rigor.Many techniques and examples have been chosen from the radarindustry (Rayleigh fluctuating targets are used as they yieldsimple expressions for the probability of detection), and othersfor their pedagogical value (Costas signals lead the coded radarsignals because their ambiguity function can be intuitivelydeduced). Ordered statistics is covered in more depth than otherCFAR techniques because its performance can be obtainedanalytically without resorting to simulation methods. Contains manyexercises. An Instructor's Manual presenting detailed solutions to all theproblems in the book is available from the Wiley editorialdepartment.

Segregation by Design Prentice Hall

A comprehensive introduction to radar principles This volume fills a need in industry and universities for a comprehensive introductory text on radar principles. Well-organized and pedagogically driven, this book focuses on basic and optimum methods of

realizing radar operations, covers modern applications, and provides a detailed, sophisticated mathematical treatment. Author Peyton Z. Peebles, Jr., draws on an extensive review of existing radar literature to present a selection of the most fundamental topics. He clearly explains general principles, such as wave propagation and signal theory, before advancing to more complex topics involving aspects of measurement and tracking. The last chapter provides a self-contained treatment of digital signal processing, which can be explored independently. Ample teaching and self-study help is incorporated throughout, including: * Numerous worked-out examples illustrating radar theory * Many end-of-chapter problems * Hundreds of illustrations, including system block diagrams, demonstrating how radar functions are achieved * Appended review material and useful mathematical formulas * An extensive bibliography and references. *An Instructor's Manual presenting detailed solutions to all the problems in the book is available from the Wiley editorial department. Radar Principles is destined to become the standard text on radar for graduate and senior-level courses in electrical engineering departments as well as industrial courses. It is also an excellent reference for engineers who are typically required to learn radar principles on the job, and for anyone working in radar-related

industries as well as in aerospace and naval research.
Introduction to Probability, Statistics, and Random Processes Wiley-Interscience
"Digital Communications" presents the theory and application of the philosophy of Digital Communication systems in a unique but lucid form. The book inserts equal importance to the theory and application aspect of the subject whereby the authors selected a wide class of problems. The Salient features of the book are: 1. The foundation of Fourier series, Transform and wavelets are introduces in a unique way but in lucid language. 2. The application area is rich and resemblance to the present trend of research, as we are attached with those areas professionally. 3. Elegant exercise section is designed in such a way that, the readers can get the flavor of the subject and get attracted towards the future scopes of the subject. 4. Unparallel tabular, flow chart based and pictorial methodology description will be there for sustained impression of the proposed design/algorithms in mind.
Methods of Signal and System Analysis
Springer Science & Business Media
Together with the fundamentals of probability, random processes and statistical analysis, this insightful book also presents a broad range of advanced topics and applications. There is extensive coverage of Bayesian vs.

frequentist statistics, time series and spectral representation, inequalities, bound and approximation, maximum-likelihood estimation and the expectation-maximization (EM) algorithm, geometric Brownian motion and Itô process. Applications such as hidden Markov models (HMM), the Viterbi, BCJR, and Baum–Welch algorithms, algorithms for machine learning, Wiener and Kalman filters, and queueing and loss networks are treated in detail. The book will be useful to students and researchers in such areas as communications, signal processing, networks, machine learning, bioinformatics, econometrics and mathematical finance. With a solutions manual, lecture slides, supplementary materials and MATLAB programs all available online, it is ideal for classroom teaching as well as a valuable reference for professionals.

Principles of Modern Radar McGraw-Hill Companies

Segregation by Design draws on more than 100 years of quantitative and qualitative data from thousands of American cities to explore how local governments generate race and class segregation. Starting in the early twentieth century, cities have used their power of land use control to determine the location and availability of housing, amenities (such as parks), and negative land uses (such as garbage dumps). The result has been segregation - first within

cities and more recently between them. Documenting changing patterns of segregation and their political mechanisms, Trounstine argues that city governments have pursued these policies to enhance the wealth and resources of white property owners at the expense of people of color and the poor. Contrary to leading theories of urban politics, local democracy has not functioned to represent all residents. The result is unequal access to fundamental local services - from schools, to safe neighborhoods, to clean water.

Digital Communication John Wiley & Sons

Reproduction of the original: Gallipoli Diary by Ian Hamilton

Probability, Random Variables, and Random Processes McGraw-Hill Education

"Here, my previous edition of Viruses, Plagues, & History is updated to reflect both progress and disappointment since that publication. This edition describes newcomers to the range of human infections, specifically, plagues that play important roles in this 21st century. The first is Middle East Respiratory Syndrome (MERS), an infection related to Sudden Acute Respiratory Syndrome (SARS). SARS was the first new-found plague of this century. Zika virus, which is similar to yellow fever virus in being transmitted by mosquitos, is another of the recent scourges. Zika appearing for the first time in the Americas is

associated with birth defects and a paralytic condition in adults. Lastly, illness due to hepatitis viruses were observed prominently during the second World War initially associated with blood transfusions and vaccine inoculations. Since then, hepatitis virus infections have afflicted millions of individuals, in some leading to an acute fulminating liver disease or more often to a life-long persistent infection. A subset of those infected has developed liver cancer. However, in a triumph of medical treatments for infectious diseases, pharmaceuticals have been developed whose use virtually eliminates such maladies. For example, Hepatitis C virus infection has been eliminated from almost all (>97%) of its victims. This incredible result was the by-product of basic research in virology as well as cell and molecular biology during which intelligent drugs were designed to block events in the hepatitis virus life-cycle"--

Discrete Mathematics with Applications, Metric Edition Cambridge University Press

Intuitive Probability and Random Processes using MATLAB® is an introduction to probability and random processes that merges theory with practice. Based on the author's belief that only "hands-on" experience with the material can promote intuitive understanding, the approach is to motivate the need for theory using MATLAB examples, followed by theory and analysis, and finally

descriptions of "real-world" examples to acquaint the reader with a wide variety of applications. The latter is intended to answer the usual question "Why do we have to study this?" Other salient features are: *heavy reliance on computer simulation for illustration and student exercises *the incorporation of MATLAB programs and code segments *discussion of discrete random variables followed by continuous random variables to minimize confusion *summary sections at the beginning of each chapter *in-line equation explanations *warnings on common errors and pitfalls *over 750 problems designed to help the reader assimilate and extend the concepts Intuitive Probability and Random Processes using MATLAB® is intended for undergraduate and first-year graduate students in engineering. The practicing engineer as well as others having the appropriate mathematical background will also benefit from this book. About the Author Steven M. Kay is a Professor of Electrical Engineering at the University of Rhode Island and a leading expert in signal processing. He has received the Education Award "for outstanding contributions in education and in writing scholarly books and texts..." from the IEEE Signal Processing society and has been listed as among the 250 most cited researchers in the world in engineering. *Gallipoli Diary* McGraw-Hill Science/Engineering/Math Why another book about

vaccines? There are already a few extremely well-written medical textbooks that provide comprehensive, state-of-the-art technical reviews regarding vaccine science. Additionally, in the past decade alone, a number of engrossing, provocative books have been published on various related issues ra- ing from vaccines against specific diseases to vaccine safety and policy. Yet there remains a significant gap in the literature – the history of vaccines. Vaccines: A Biography seeks to fill a void in the extant literature by focusing on the history of vaccines and in so doing, recounts the social, cultural, and scientific history of vaccines; it places them within their natural, historical context. The book traces the lineage – the “biography” – of individual vaccines, originating with deeply rooted medical problems and evolving to an eventual conclusion. Nonetheless, these are not “biographies” in the traditional sense; they do not trace an individual’s growth and development. Instead, they follow an idea as it is conceived and dev- oped, through the contributions of many. These are epic stories of discovery, of risk-takers, of individuals advancing medical science, in the words of the famous physical scientist Isaac Newton, “by standing on the shoulders of giants. ” One grant reviewer described the book’s concept as “triumphalist”; although meant as an indictment, this is only partially inaccurate. *Probability, Random*

Variables, and Stochastic Processes BoD – Books on Demand
The fourth edition of Probability, Random Variables and Stochastic Processes has been updated significantly from the previous edition, and it now includes co-author S. Unnikrishna Pillai of Polytechnic University. The book is intended for a senior/graduate level course in probability and is aimed at students in electrical engineering, math, and physics departments. The authors' approach is to develop the subject of probability theory and stochastic processes as a deductive discipline and to illustrate the theory with basic applications of engineering interest. Approximately 1/3 of the text is new material--this material maintains the style and spirit of previous editions. In order to bridge the gap between concepts and applications, a number of additional examples have been added for further clarity, as well as several new topics.
Circuits and Systems John Wiley & Sons
Probability - The Random Variable - Operations on one Random Variable--Expectation - Multiple Random Variables - Operations of Multiple Random Variables - Random Processes-Temporal Characteristics - Random Processes-Spectral Characteristics - Linear Systems with Random Inputs - Optimum Linear Systems - Some Practical Applications of the Theory.
Radar Principles Pearson Education India
DISCRETE MATHEMATICS

WITH APPLICATIONS, 5th Edition, Metric Edition explains complex, abstract concepts with clarity and precision and provides a strong foundation for computer science and upper-level mathematics courses of the computer age. Author Susanna Epp presents not only the major themes of discrete mathematics, but also the reasoning that underlies mathematical thought. Students develop the ability to think abstractly as they study the ideas of logic and proof. While learning about such concepts as logic circuits and computer addition, algorithm analysis, recursive thinking, computability, automata, cryptography and combinatorics, students discover that the ideas of discrete mathematics underlie and are essential to today's science and technology.

A General History of the Burr Family Springer Science & Business Media Market_Desc: · Electrical Engineers, Graduate and Senior Level Students studying Radar Principles; Introduction to Radar; Radar Design Principles, Radar Systems Special Features: · It is the most comprehensive summary of the existing literature available on the topic· Engineers solve problems Peebles gives radar engineers all the mathematical details they need in order to understand and apply the underlying principals of radar-the Where from and Why that is missing in other radar books. About The Book: This book presents a comprehensive coverage and summary of

the literature on radar. The author is well known and has produced a number of well received textbooks. Peebles offers a more mathematical treatment and provides many problems. This book is designed to be the basis for learning radar principles through self study.

Spread Spectrum Techniques Springer Science & Business Media This book uses a distinctly applied framework to present the most important topics in stochastic processes, including Gaussian and Markovian processes, Markov Chains, Poisson processes, Brownian motion and queueing theory. The book also examines in detail special diffusion processes, with implications for finance, various generalizations of Poisson processes, and renewal processes. It contains numerous examples and approximately 350 advanced problems that reinforce both concepts and applications. Entertaining mini-biographies of mathematicians give an enriching historical context. The book includes statistical tables and solutions to the even-numbered problems at the end.