Random Data By Julius S Bendat

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Fundamental and Advanced Topics in Wind Power - Rupp Carriveau 2011-07-05
As the fastest growing source of energy in the world, wind has a very important role to play in the global energy mix. This text covers a spectrum of leading edge topics critical to the rapidly evolving wind power industry. The reader is introduced to the fundamentals of wind energy aerodynamics; then essential structural, mechanical, and electrical subjects are discussed. The book is composed of three sections that include the Aerodynamics and Environmental Loading of Wind Turbines, Structural and Electromechanical Elements of Wind Power Conversion, and Wind Turbine Control and System Integration. In addition to the fundamental rudiments illustrated, the reader will be exposed to specialized applied and advanced topics including magnetic suspension bearing systems, structural health monitoring, and the optimized integration of wind power into micro and smart grids.
Measurement, Data Analysis, and Sensor Fundamentals for Engineering and Science - Patrick F. Dunn 2019-02-20
A combination of two texts authored by Patrick Dunn, this set covers sensor technology as well as basic measurement and data analysis subjects, a combination not covered together in other references. Written for junior-level mechanical and aerospace engineering students, the topic coverage allows for flexible approaches to using the combination book in courses. MATLAB® applications are included in all sections of the combination, and concise, applied coverage of sensor technology is offered. Numerous chapter examples and problems are

included, with complete solutions available.
Random Data - Julius S. Bendat 2000-02-14
The classic reference on the theory and application of random data analysis-now expanded and revised. This eagerly awaited new edition of the bestselling random data analysis book continues to provide first-rate, practical tools for scientists and engineers who investigate dynamic data as well as those who use statistical methods to solve engineering problems. It is fully updated, covering new procedures developed since 1986 and extending the discussion to a remarkably broad range of applied fields, from aerospace and automotive industries to biomedical research. Comprehensive and self-contained, this new edition also greatly expands coverage of the theory, including derivations of key relationships in probability and random process theory not usually found in books of this kind. Special features of Random Data: Analysis and Measurement Procedures, Third Edition include: * Basic probability functions for level crossings and peak values of random data * Complete derivations of both old and new practical formulas for statistical error analysis of computed estimates * The latest methods for data acquisition and processing as well as nonstationary data analysis * Additional techniques on digital data analysis procedures * New material on the analysis of multiple-input/multiple-output linear systems * Numerous new examples and problem sets * Hundreds of updated illustrations and references *An Instructor's Manual presenting detailed solutions to all the problems in the book is available from the Wiley editorial department.

Underwater Acoustic Data Processing - Y. T. Chan 2012-12-06
This book contains the papers that were accepted for presentation at the 1988 NATO Advanced Study Institute on Underwater Acoustic Data Processing, held at the Royal Military College of Canada from 18 to 29 July, 1988. Approximately 110 participants from various NATO countries were in attendance during this two week period. Their research interests range from underwater acoustics to signal processing and computer science; some are renowned scientists and some are recent Ph.D. graduates. The purpose of the ASI was to provide an authoritative summing up of the various research activities related to sonar technology. The exposition on each subject began with one or two tutorials prepared by invited lecturers, followed by research papers which provided indications of the state of development in that specific area. I have broadly classified the papers into three sections under the titles of I. Propagation and Noise, II. Signal Processing and III. Post Processing. The reader will find in Section I papers on low frequency acoustic sources and effects of the medium on underwater acoustic propagation. Problems such as coherence loss due to boundary interaction, wavefront distortion and multipath transmission were addressed. Besides the medium, corrupting noise sources also have a strong influence on the performance of a sonar system and several researchers described methods of modeling these sources.

Vibration Spectrum Analysis - Steve Goldman 1999
"Written for vibration analysts, predictive maintenance specialists, field mechanics, and a wide variety of engineers, Vibration Spectrum Analysis assumes no prior knowledge of advanced mathematics or mechanical engineering. It carefully guides the reader through sophisticated analysis techniques in a logical, easy-to-understand manner."--BOOK JACKET.

Applied Mechanics Reviews - 1986

Applied Thermodynamics for Engineering Technologists - Eastop 1993

Basics of Precision Engineering - Richard Leach 2018-04-09
Advances in engineering precision have tracked with technological progress for hundreds of years. Over the last few decades, precision engineering has been the specific focus of research on an international scale. The outcome of this effort has been the establishment of a broad range of engineering principles and techniques that form the foundation of precision design. Today's precision manufacturing machines and measuring instruments represent highly specialised processes that combine deterministic engineering with metrology. Spanning a broad range of technology applications, precision engineering principles frequently bring together scientific ideas drawn from mechanics, materials, optics, electronics, control, thermo-mechanics, dynamics, and software engineering. This book provides a collection of these principles in a single source. Each topic is presented at a level suitable for both undergraduate students and precision engineers in the field. Also included is a wealth of references and example problems to consolidate ideas, and help guide the interested reader to more advanced literature on specific implementations.

Atom Interferometry Paul R. Berman 1997-01-08
The field of atom interferometry has expanded rapidly in recent years, and todays research laboratories are using atom interferometers both as inertial sensors and for precision measurements. Many researchers also use atom interferometry as a means of researching fundamental questions in quantum mechanics. Atom Interferometry contains contributions from theoretical and experimental physicists at the forefront of this rapidly developing field. Editor Paul R. Berman includes an excellent balance of background material and recent experimental results,providing a general overview of atom interferometry and demonstrating the promise that it holds for the future. Includes contributions from many of the research groups that have pioneered this emerging field Discusses and demonstrates new aspects of the wave nature of atoms Explains the many important applications of atom interferometry, from a measurement of the gravitational constant to atom lithography Examines

applications of atom interferometry to fundamentally important quantum mechanics problems

An Introduction to Analysis of Financial Data with R - Ruey S. Tsay 2014-08-21
A complete set of statistical tools for beginning financial analysts from a leading authority Written by one of the leading experts on the topic, An Introduction to Analysis of Financial Data with R explores basic concepts of visualization of financial data. Through a fundamental balance between theory and applications, the book supplies readers with an accessible approach to financial econometric models and their applications to real-world empirical research. The author supplies a hands-on introduction to the analysis of financial data using the freely available R software package and case studies to illustrate actual implementations of the discussed methods. The book begins with the basics of financial data, discussing their summary statistics and related visualization methods. Subsequent chapters explore basic time series analysis and simple econometric models for business, finance, and economics as well as related topics including: Linear time series analysis, with coverage of exponential smoothing for forecasting and methods for model comparison Different approaches to calculating asset volatility and various volatility models High-frequency financial data and simple models for price changes, trading intensity, and realized volatility Quantitative methods for risk management, including value at risk and conditional value at risk Econometric and statistical methods for risk assessment based on extreme value theory and quantile regression Throughout the book, the visual nature of the topic is showcased through graphical representations in R, and two detailed case studies demonstrate the relevance of statistics in finance. A related website features additional data sets and R scripts so readers can create their own simulations and test their comprehension of the presented techniques. An Introduction to Analysis of Financial Data with R is an excellent book for introductory courses on time series and business statistics at the upper-undergraduate and graduate level. The book is also an excellent resource for researchers and practitioners in the fields of business, finance, and economics who would like to enhance their understanding of financial data and today's financial markets.

Subspace Identification for Linear Systems - Peter van Overschee 2012-12-06
Subspace Identification for Linear Systems focuses on the theory, implementation and applications of subspace identification algorithms for linear time-invariant finite-dimensional dynamical systems. These algorithms allow for a fast, straightforward and accurate determination of linear multivariable models from measured input-output data. The theory of subspace identification algorithms is presented in detail. Several chapters are devoted to deterministic, stochastic and combined deterministic-stochastic subspace identification algorithms. For each case, the geometric properties are stated in a main 'subspace' Theorem. Relations to existing algorithms and literature are explored, as are the interconnections between different subspace algorithms. The subspace identification theory is linked to the theory of frequency weighted model reduction, which leads to new interpretations and insights. The implementation of subspace identification algorithms is discussed in terms of the robust and computationally efficient RQ and singular value decompositions, which are well-established algorithms from numerical linear algebra. The algorithms are implemented in combination with a whole set of classical identification algorithms, processing and validation tools in Xmath's ISID, a commercially available graphical user interface toolbox. The basic subspace algorithms in the book are also implemented in a set of Matlab files accompanying the book. An application of ISID to an industrial glass tube manufacturing process is presented in detail, illustrating the power and user-friendliness of the subspace identification algorithms and of their implementation in ISID. The identified model allows for an optimal control of the process, leading to a significant enhancement of the production quality. The applicability of subspace identification algorithms in industry is further illustrated with the application of the Matlab files to ten practical problems. Since all necessary data and Matlab files are included, the reader can easily step through these

applications, and thus get more insight in the algorithms. Subspace Identification for Linear Systems is an important reference for all researchers in system theory, control theory, signal processing, autapization, mechatronics, chemical, electrical, mechanical and aeronautical engineering.

Evaluation and Control of Measurements - John Mandel 1991

Random Data - Julius S. Bendat 2011-09-20 A timely update of the classic book on the theory and application of random data analysis First published in 1971, Random Data served as an authoritative book on the analysis of experimental physical data for engineering and scientific applications. This Fourth Edition features coverage of new developments in random data management and analysis procedures that are applicable to a broad range of applied fields, from the aerospace and automotive industries to oceanographic and biomedical research. This new edition continues to maintain a balance of classic theory and novel techniques. The authors expand on the treatment of random data analysis theory, including derivations of key relationships in probability and random process theory. The book remains unique in its practical treatment of nonstationary data analysis and nonlinear system analysis, presenting the latest techniques on modern data acquisition, storage, conversion, and qualification of random data prior to its digital analysis. The Fourth Edition also includes: A new chapter on frequency domain techniques to model and identify nonlinear systems from measured input/output random data New material on the analysis of multiple-input/single-output linear models The latest recommended methods for data acquisition and processing of random data Important mathematical formulas to design experiments and evaluate results of random data analysis and measurement procedures Answers to the problem in each chapter Comprehensive and self-contained, Random Data, Fourth Edition is an indispensible book for courses on random data analysis theory and applications at the upper-undergraduate and graduate level. It is also an insightful reference for engineers and scientists who use statistical methods to investigate and solve problems with dynamic data.

Nonlinear System Techniques and Applications - Julius S. Bendat 1998-01-20 New practical techniques for nonlinear system research and evaluation Nonlinear Systems Techniques and Applications provides the most practical techniques currently available for analyzing and identifying nonlinear systems from random data measured at the input and output points of the nonlinear systems. These new techniques require only one-dimensional spectral functions that are much simpler to compute and apply than previous nonlinear procedures. The new results show when and how to replace a wide class of single-input/single-output nonlinear models with simpler equivalent multiple-input/single-output linear models. While other techniques are usually restricted to Gaussian data, the new techniques developed here apply to data with arbitrary probability, correlation, and spectral properties. Numerous examples used in the book are based on the analysis of real physical data passing through real nonlinear systems in the fields of oceanography, automotive engineering, and biomedical research. For practicing engineers and scientists involved in aerospace, automotive, biomedical, electrical, mechanical, oceanographic, and other activities concerned with nonlinear system analysis, Nonlinear Systems Techniques and Applications is the essential reference work in the field.

Random Signals Estimation and Identification Nirode Mohanty 2012-12-06 The techniques used for the extraction of information from received or ob served signals are applicable in many diverse areas such as radar, sonar, communications, geophysics, remote sensing, acoustics, meteorology, med ical imaging systems, and electronics warfare. The received signal is usually disturbed by thermal, electrical, atmospheric, channel, or intentional inter ferences. The received signal cannot be predicted deterministically, so that statistical methods are needed to describe the signal. In general, therefore, any received signal is analyzed as a random signal or process. The purpose of this book is to provide an elementary introduction to random signal analysis, estimation, filtering, and identification. The

emphasis of the book is on the computational aspects as well as presentation of com mon analytical tools for systems involving random signals. The book covers random processes, stationary signals, spectral analysis, estimation, optimiz ation, detection, spectrum estimation, prediction, filtering, and identification. The book is addressed to practicing engineers and scientists. It can be used as a text for courses in the areas of random processes, estimation theory, and system identification by undergraduates and graduate students in engineer ing and science with some background in probability and linear algebra. Part of the book has been used by the author while teaching at State University of New York at Buffalo and California State University at Long Beach. Some of the algorithms presented in this book have been successfully applied to industrial projects.

Blood Pressure Measurements - W. Meyer-Sabellek 2012-12-06
In addition to standardized casual blood pressure readings, ambulatory blood pressure monitoring (ABPM) - using automatic noninvasive (= indirect) devices for home readings and fully automated monitors for 24-h profiles - have become a widely used necessary tool in clinical research. This book summarizes the state of the art in the whole field of indirect blood pressure monitoring. It is based on two international meetings and on invited papers. We have divided the subject matter into two main areas: 1) Automatic blood pressure devices for discontinuous registration, and 2) Portable, fully automated programmable monitors for continuous monitoring. The availability of all new technologies is described in detail and current technical and physiological problems have been covered in depth. Both topics have been subdivided into a) Methods and Techniques, and b) Clinical Applications. Both parts are updated and have critically evaluated available automatic sphygmomanometers and portable computers equipped with different techni ques (e. g. , auscultation, oscillometry, plethysmography). Reliability in the intensiv Care unit as well as in outpatients management, common clinical problems, clinical relevance compared to casual blood pressure are described in the first part. In the second part, ten years of experience on fully automated

noninvasive methodology - compared to intraarterial techniques - have been elaborated by international experts; the possibilities and limitations are clearly demonstrated. Analyses in different clinical fields in the diagnosis of primary and secondary hypertension are given. Different statistical analyses of blood pressure variability and circadian rhythms are discussed.
Wind Turbine Noise Dick Bowdler 2011
Noise from wind turbines is a major constraining factor in the location of turbines. A recent survey in the Netherlands showed that sound was the aspect of wind turbines which led to most complaints, generally greater compared with other sound sources of equal level. Investigation, understanding and reduction of noise from wind turbines is a necessary progression in the development of this sector of renewable energy.The book, authored by an international group of experts, reviews current knowledge, providing an objective and accurate assessment of all aspects of wind turbine noise.

The Shock and Vibration Bulletin - 1981

Harris' Shock and Vibration Handbook - Allan G. Piersol 2009-10-01
The classic reference on shock and vibration, fully updated with the latest advances in the field Written by a team of internationally recognized experts, this comprehensive resource provides all the information you need to design, analyze, install, and maintain systems subject to mechanical shock and vibration. The book covers theory, instrumentation, measurement, testing, control methodologies, and practical applications. Harris' Shock and Vibration Handbook, Sixth Edition, has been extensively revised to include innovative techniques and technologies, such as the use of waveform replication, wavelets, and temporal moments. Learn how to successfully apply theory to solve frequently encountered problems. This definitive guide is essential for mechanical, aeronautical, acoustical, civil, electrical, and transportation engineers. EVERYTHING YOU NEED TO KNOW ABOUT MECHANICAL SHOCK AND VIBRATION, INCLUDING Fundamental theory Instrumentation and measurements Procedures for analyzing and testing systems subject to shock and vibration Ground-motion, fluid-flow, wind-. and sound-induced vibration Methods for

controlling shock and vibration Equipment design The effects of shock and vibration on humans

Principles of Plasma Diagnostics I. H. Hutchinson 2005-07-14
This book provides a systematic introduction to the physics of plasma diagnostics measurements. It develops from first principles the concepts needed to plan, execute and interpret plasma measurements, making it a suitable book for graduate students and professionals with little plasma physics background. The book will also be a valuable reference for seasoned plasma physicists, both experimental and theoretical, as well as those with an interest in space and astrophysical applications. This second edition is thoroughly revised and updated, with new sections and chapters covering recent developments in the field.

Statistical Methods for Quality Improvement - Thomas P. Ryan 2011-09-20
Praise for the Second Edition "As a comprehensive statistics reference book for quality improvement, it certainly is one of the best books available." —Technometrics This new edition continues to provide the most current, proven statistical methods for quality control and quality improvement The use of quantitative methods offers numerous benefits in the fields of industry and business, both through identifying existing trouble spots and alerting management and technical personnel to potential problems. Statistical Methods for Quality Improvement, Third Edition guides readers through a broad range of tools and techniques that make it possible to quickly identify and resolve both current and potential trouble spots within almost any manufacturing or nonmanufacturing process. The book provides detailed coverage of the application of control charts, while also exploring critical topics such as regression, design of experiments, and Taguchi methods. In this new edition, the author continues to explain how to combine the many statistical methods explored in the book in order to optimize quality control and improvement. The book has been thoroughly revised and updated to reflect the latest research and practices in statistical methods and quality control, and new features include: Updated coverage of control charts, with newly added tools The latest research on the monitoring of linear profiles and other types of profiles Sections on generalized likelihood ratio charts and the effects of parameter estimation on the properties of CUSUM and EWMA procedures New discussions on design of experiments that include conditional effects and fraction of design space plots New material on Lean Six Sigma and Six Sigma programs and training Incorporating the latest software applications, the author has added coverage on how to use Minitab software to obtain probability limits for attribute charts. new exercises have been added throughout the book, allowing readers to put the latest statistical methods into practice. Updated references are also provided, shedding light on the current literature and providing resources for further study of the topic. Statistical Methods for Quality Improvement, Third Edition is an excellent book for courses on quality control and design of experiments at the upper-undergraduate and graduate levels. the book also serves as a valuable reference for practicing statisticians, engineers, and physical scientists interested in statistical quality improvement.

Statistical Design and Analysis of Industrial Experiments - Ghosh 1990-05-25

Nonlinear System Analysis and Identification from Random Data - Julius S. Bendat 1990-03-16
Describes procedures to identify and analyze the properties of many types of nonlinear systems from random data measured at the input and output points of physical systems. Improvements are offered in applying older techniques, and problems that traditionally have been difficult to analyze are solved by new, simpler procedures. Formulas are stated for optimum nonlinear system identification in both general models consisting of parallel, linear bilinear and trilinear systems, and special models consisting of parallel linear, finite-memory square-law systems and finite-memory cubic systems. New results, obtained here, show when and how to replace complicated single input/output nonlinear models with simpler alternative multiple input/single output linear models. New error analysis formulas are presented to design experiments and to evaluate estimates obtained from measured data. Includes many illustrative

examples.

Aerodynamic Forces on a Stationary and Oscillating Circular Cylinder at High Reynolds Numbers - George W. Jones 1969

Climate Time Series Analysis Manfred Mudelsee 2010-08-26
Climate is a paradigm of a complex system. Analysing climate data is an exciting challenge, which is increased by non-normal distributional shape, serial dependence, uneven spacing and timescale uncertainties. This book presents bootstrap resampling as a computing-intensive method able to meet the challenge. It shows the bootstrap to perform reliably in the most important statistical estimation techniques: regression, spectral analysis, extreme values and correlation. This book is written for climatologists and applied statisticians. It explains step by step the bootstrap algorithms (including novel adaptions) and methods for confidence interval construction. It tests the accuracy of the algorithms by means of Monte Carlo experiments. It analyses a large array of climate time series, giving a detailed account on the data and the associated climatological questions. This makes the book self-contained for graduate students and researchers.

Engineering Applications of Correlation and Spectral Analysis - Julius S. Bendat 1980-05-13
Introduction and background; Probability functions and amplitude measures; Correlation and spectral density functions; Single input/single output relationships; System identification and response; Propagation path identification; Single input/multiple output problems; Multiple input/output relationships; Energy source identification; Procedures for solving multiple input/output problems; Statistical errors in measurements.

Signal Processing - Nirode C. Mohanty 2012-12-06
Signal processing arises in the design of such diverse systems as communications, sonar, radar, electrooptical, navigation, electronic warfare and medical imaging systems. It is also used in many physical sciences, such as geophysics, acoustics, and meteorology, among many others. The common theme is to extract and estimate the desired signals, which are mixed with a variety of noise sources and disturbances. Signal processing involves system analysis, random processes, statistical inferences, and software and hardware implementation. The purpose of this book is to provide an elementary, informal introduction, as well as a comprehensive account of principles of random signal processing, with emphasis on the computational aspects. This book covers linear system analysis, probability theory, random signals, spectral analysis, estimation, filtering, and detection theory. It can be used as a text for a course in signal processing by under graduates and beginning graduate students in engineering and science and also by engineers and scientists engaged in signal analysis, filtering, and detection. Part of the book has been used by the author while teaching at the State University of New York at Buffalo and California State University at Long Beach. An attempt has been made to make the book self-contained and straight forward, with the hope that readers with varied backgrounds can appreciate and apply principles of signal processing. Chapter 1 provides a brief review of linear analysis of deterministic signals.

Measurement and Analysis of Random Data - Julius S. Bendat 1966
After spending the summer in a commune, a teen-age girl in Scotland feels better prepared to cope with the conflicts in her own family.

Random Vibrations - Paul H. Wirsching 2006-01-01
The most comprehensive text and reference available on the study of random vibrations, this book was designed for graduate students and mechanical, structural, and aerospace engineers. In addition to coverage of background topics in probability, statistics, and random processes, it develops methods for analyzing and controlling random vibrations. 1995 edition.

Introduction to Matrix Analysis and Applications - Fumio Hiai 2014-02-06
Matrices can be studied in different ways. They are a linear algebraic structure and have a topological/analytical aspect (for example, the normed space of matrices) and they also carry an order structure that is induced by positive semidefinite matrices. The interplay of these closely related structures is an essential feature of matrix analysis. This book explains these

aspects of matrix analysis from a functional analysis point of view. After an introduction to matrices and functional analysis, it covers more advanced topics such as matrix monotone functions, matrix means, majorization and entropies. Several applications to quantum information are also included. Introduction to Matrix Analysis and Applications is appropriate for an advanced graduate course on matrix analysis, particularly aimed at studying quantum information. It can also be used as a reference for researchers in quantum information, statistics, engineering and economics.

Random Data - Julius S. Bendat 1986-04-17
New York : John Wiley and Sons, [1986].

The Dynamics of Marine Craft Edward M. Lewandowski 2004
This book presents a theoretical treatment, as well as a summary of practical methods of computation, of the forces and moments that act on marine craft. Its aim is to provide the tools necessary for the prediction or simulation of craft motions in calm water and in waves. In addition to developing the required equations, the author gives relations that permit at least approximate evaluation of the coefficients so that useful results can be obtained. The approach begins with the equations of motion for rigid bodies, relative to fixed- and moving-coordinate systems; then, the hydrodynamic forces are examined, starting with hydrostatics and progressing to the forces on a moving vehicle in calm water and (after a review of water-wave theory) in waves. Several detailed examples are presented, including calculations of hydrostatics, horizontal- and vertical-plane directional stability, and wave-induced motions. Also included are unique discussions on various effects, such as fin-hull interactions, numerical stability of integrators, heavy torpedoes, and the dynamics of high-speed craft. The book is intended to be an introductory-level graduate text and a reference for the practicing professional.

Illustrated Dictionary of Historic Architecture Cyril M. Harris 2013-02-28
This massive compendium contains over 2,000 line drawings, and clear, concise definitions for over 5,000 important terms relating to the architectural achievements of a great variety of world cultures, ancient to modern.

Principles and Applications of Random Noise Theory - Julius S. Bendat 1977

Principles of Naval Architecture: Resistance, propulsion and vibration - Edward V. Lewis 1988

Large Deviation Techniques in Decision, Simulation, and Estimation - James A. Bucklew 1990-08-15
Random Data Analysis and Measurement Procedures Second Edition Julius S. Bendat and Allan G. Piersol The latest techniques for analysis and measurement of stationary and nonstationary random data passing through physical systems are described in this extensive revision and update. It includes new modern data processing procedures and new statistical error analysis formulas for the evaluation of estimates in single input/output and multiple input/output problems, plus new material on Hilbert transforms, multiple array models, and more. Chapters on statistical errors in basic and advanced estimates represent the most complete derivation and summary of these matters in print. 1986 (0 471-04000-2) 566 pp. Linear Stochastic Systems Peter E. Caines This outstanding text provides a unified and mathematically rigorous exposition of linear stochastic system theory The comprehensive format includes a full treatment of the fundamentals of stochastic processes and the construction of stochastic systems. It then presents an integrated view of the interrelated theories of prediction, realization (or modeling), parameter estimation and control. It also features in-depth coverage of system identification, with chapters on maximum likelihood estimation for Gaussian ARMAX and state space systems, minimum prediction error identification methods, nonstationary system identification, linear-quadratic stochastic control and concludes with a discussion of stochastic adaptive control. 1988 (0 471-08101-9) 874 pp. Introduction to the theory of Coverage Processes Peter Hall Coverage processes are finding increasing application in such diverse areas as queueing theory, ballistics, and physical chemistry. Drawing on methodology from several areas of probability theory and mathematics, this monograph provides a

succinct and rigorous development of the mathematical theory of models for random coverage patterns. 1988 (0 471-85702-5) 408 pp.

Potential Spotting Distance from Wind-driven Surface Fires - Frank A. Albini 1983

Random Signals - K. Sam Shanmugan 1988-05-20
This treatise develops the theory of random processes and its application to the study of systems and the analysis of random data. It covers the fundamentals of random process models, the applications of probabilistic models and statistical estimation.

Randomly Fluctuating Flow in a Channel Due to Randomly Fluctuating Pressure Gradients - Morris Perlmutter 1971

Dissolved Oxygen Impact from Urban Storm Runoff - Thomas N. Keefer 1979