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course. Since DSP applications are primarily algorithms implemented on a DSP processor or software, a fair amount of programming is required. Using interactive software such as MATLAB® makes it possible to place more emphasis on learning new and difficult concepts than on programming algorithms. Interesting practical examples are discussed and useful problems are explored. This updated second edition includes new homework problems and revises the scripts in the book, available functions, and m-files to MATLAB® V7.

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

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experiments and evaluate results of random data analysis and measurement procedures. Answers to the problem in each chapter are comprehensive and self-contained. Random Data, Fourth Edition is an indispensable 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.

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An integrated package of powerful probabilistic tools and key applications in modern mathematical data science.

This book communicates some contemporary mathematical and statistical developments in river basin hydrology as they pertain to space-time rainfall, spatial landform and network structures and their role in understanding averages and fluctuations in the hydrologic water balance of river basins. While many of the mathematical and statistical nations have quite

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classical mathematical roots, the river basin data structure has led to many variations on the problems and theory. Contents: Stochastic Spatial-Temporal Models for Rain (D R Cox & V Isham) On Scaling Theories of Space-Time Rainfall: Some Recent Results and Open Problems (E Foufoula-Georgiou) Modeling of Drop Size Distribution and Its Applications to Rainfall Measurements from Radar (J M Porrà et al.) Spatial Channel Network Models in Hydrology (B M Troutman & M R Karlinger) Some Mathematical Aspects of Rainfall, Land-Forms, and Floods (V K Gupta & E C Waymire) Efficient Extraction of River Networks and Hydrologic Measurements from Digital Elevation Data (S D Peckham) Readership: Statisticians. Keywords: River Networks; Scaling Random Fields; Fractals; Floods; Space-Time Variability; Stochastic Point Processes; Geomorphology; Hydrometeorology; Multiscaling; Space-Time Rainfall; Stochastic Hydrology; Digital Elevation Maps; Self-Similar Networks; Ungauged River Basin; Point Process Models; Multiplicative Cascades; Statistical Hydrology; Surface Water Hydrology Reviews: "This book presents an exciting review of developments in stochastic hydrology (with a helpful index) and includes many useful references." International Statistical Institute

A comprehensive introduction to ICA for students and practitioners Independent Component Analysis (ICA) is one of the most exciting new topics in fields such as neural networks, advanced statistics, and signal processing. This is the first book to provide a comprehensive introduction to this new technique complete with the fundamental mathematical background needed to understand and utilize it. It offers a general overview of the basics of ICA, important solutions and algorithms, and in-depth coverage of new applications in image processing,

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telecommunications, audio signalprocessing, and more. Independent Component Analysis is divided into four sections thatcover: \* General mathematical concepts utilized in the book \* The basic ICA model and its solution \* Various extensions of the basic ICA model \* Real-world applications for ICA models Authors Hyvarinen, Karhunen, and Oja are well known for theircontributions to the development of ICA and here cover all therelevant theory, new algorithms, and applications in variousfields. Researchers, students, and practitioners from a variety ofdisciplines will find this accessible volume both helpful andinformative.

A significant revision of a best-selling text for the introductory digital signal processing course. This book presents the fundamentals of discrete-time signals, systems, and modern digital processing and applications for students in electrical engineering, computer engineering, and computer science. The book is suitable for either a one-semester or a two-semester undergraduate level course in discrete systems and digital signal processing. It is also intended for use in a one-semester first-year graduate-level course in digital signal processing.

This volume includes the full proceedings from the 1991 Academy of Marketing Science (AMS) Annual Conference held in Fort Lauderdale, Florida. The research and presentations offered in this volume cover many aspects of marketing science including marketing strategy, consumer behavior, international marketing, services marketing, marketing education, among others. Founded in 1971, the Academy of Marketing Science is an international organization dedicated to promoting timely explorations of phenomena related to the science of marketing in theory, research, and practice. Among its services to members and the community at large, the

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Academy offers conferences, congresses and symposia that attract delegates from around the world. Presentations from these events are published in this Proceedings series, which offers a comprehensive archive of volumes reflecting the evolution of the field. Volumes deliver cutting-edge research and insights, complimenting the Academy's flagship journals, the Journal of the Academy of Marketing Science (JAMS) and AMS Review. Volumes are edited by leading scholars and practitioners across a wide range of subject areas in marketing science.

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