

Random Signals for Engineers Using MATLAB[®] and Mathematica[®]

Richard C. Jaffe



Engineering Computer Science



Random Signals For Engineers Using Matlab Mathcad

William M. Hartmann



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Random Signals for Engineers Using MATLAB and Mathcad: Text Richard C. Jaffe, 2000-09-08 Windows Version
Impulsive Kanalstörungen und deren Einfluss in der ultrabreitbandigen Übertragung Youssef Dhibi, 2005 **Signals, Sound, and Sensation** William M. Hartmann, 2004-09-14 Designed to follow an introductory text on psychoacoustics this book takes readers through the mathematics of signal processing from its beginnings in the Fourier transform to advanced topics in modulation dispersion relations minimum phase systems sampled data and nonlinear distortion While organised like an introductory engineering text on signals the examples and exercises come from research on the perception of sound A unique feature of this book is its consistent application of the Fourier transform which unifies topics as diverse as cochlear filtering and digital recording More than 250 exercises are included many of them devoted to practical research in perception while others explore surprising auditory illusions generated by special signals Periodic signals aperiodic signals and noise along with their linear and nonlinear transformations are covered in detail More advanced mathematical topics are treated in the appendices A working knowledge of elementary calculus is the only prerequisite Indispensable for researchers and advanced students in the psychology of auditory perception **Analysis, Synthesis, and Perception of Musical Sounds** James Beauchamp, 2007-08-30 The problems of analyzing and synthesizing musical timbres have been prevalent for over half a century and a book length exploration of this large and complex subject has been long overdue Analysis Synthesis and Perception of Musical Sounds Sound of Music consists of eight chapters that span the range from tutorial introduction to advanced research and application to speculative assessment of its various techniques All of the contributors use a generalized additive sine wave model for describing musical timbre which gives a conceptual unity but is of sufficient utility to be adapted to many different tasks The authors represent an international community of researchers and teachers in the field of analysis synthesis perception and this book reflects the important trends and interests current in the subject Due to its breadth students will find the book a thorough introduction to current thinking and implementation of additive sine wave timbral models Researchers new to the field will find a canvas of applications with citations to the relevant literature which will also benefit the teacher searching for an effective syllabus Due to its scope Analysis Synthesis and Perception of Musical Sounds will become the standard reference in the field and will be seen as the catalyst for exciting research in the years ahead **Computational Ocean Acoustics** Finn B. Jensen, William A. Kuperman, Michael B. Porter, Henrik Schmidt, 2000-03-23 Many practical suggestions and tips the examples are meaningful and the illustrations are effective Destined to become a classic reference that any serious practitioner of ocean acoustics cannot afford to ignore Revue de livre Authored by four internationally renowned scientists this volume covers 20 years of progress in computational ocean acoustics and presents the latest numerical techniques used in solving the wave equation in heterogeneous fluid solid media The authors detail various computational schemes and illustrate many of the fundamental propagation features via 2 D color

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