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数字信号处理、原理、算法与应用(第四版)



Digital Signal Processing

Principles, Algorithms, and Applications Fourth Edition

[美] John G. Proakis Dimitris G. Manolakis

Prentice Hall PTR

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cancellations speech compression signal sampling digital filter realizations filter design multimedia applications over sampling etc More advanced topics are also covered such as adaptive filters speech compression such as pulse code modulation law adaptive differential pulse code modulation multi rate DSP oversampling analog to digital conversion sub band coding wavelet transform and neural networks Covers DSP principles with various examples of real world DSP applications on noise cancellation communications control applications and artificial intelligence Includes application examples using DSP techniques for deep learning neural networks to solve real world problems Provides a new chapter to cover principles of artificial neural networks and convolution neural networks with back propagation algorithms Provides hands on practice with MATLAB code for worked examples and C programs for real time DSP for students at https www elsevier com books and journals book companion 9780443273353 Offers teaching support including an image bank full solutions manual and MATLAB projects for qualified instructors available for request at https educate elsevier com 9780443273353 Solutions Manual, 'Digital Signal Processing John G. Proakis, Jingdong Lin, 1992 Valuepack Prokais, C. Burrus, Ramesh A. Gopinath, Haitao Guo, 2005-07-27 Digital Signal Processing Principles Algorithms and Applications International Edition 3 e Suitable for a one or two semester undergraduate level electrical engineering computer engineering and computer science course in Discrete Systems and Digital Signal Processing Assumes some prior knowledge of advanced calculus linear systems for continuous time signals and Fourier series and transforms Giving students a sound balance of theory and practical application this no nonsense text presents the fundamental concepts and techniques of modern digital signal processing with related algorithms and applications Covering both time domain and frequency domain methods for the analysis of linear discrete time systems the book offers cutting edge coverage on such topics as sampling digital filter design filter realizations deconvolution interpolation decimation state space methods spectrum analysis and more Rigorous and challenging it further prepares students with numerous examples exercises and experiments emphasizing software implementation of digital signal processing algorithms integrated throughout Introduction to Wavelets and Wavelet Transforms A Primer 1 e Advanced undergraduate and beginning graduate students faculty researchers and practitioners in signal processing telecommunications and computer science and applied mathematics It assumes a background of Fourier series and transforms and of linear algebra and matrix methods This primer presents a well balanced blend of the mathematical theory underlying wavelet techniques and a discussion that gives insight into why wavelets are successful in signal analysis compression dection numerical analysis and a wide variety of other theoretical and practical applications It fills a gap in the existing wavelet literature with its unified view of expansions of signals into bases and frames as well as the use of filter banks as descriptions and algorithms Digital Signal Processing Prentice Hall PTR, 1996-01

Digital Signal Processing Algorithms Hari Krishna,2017-11-22 Digital Signal Processing Algorithms describes computational number theory and its applications to deriving fast algorithms for digital signal processing It demonstrates the

importance of computational number theory in the design of digital signal processing algorithms and clearly describes the nature and structure of the algorithms themselves The book has two primary focuses first it establishes the properties of discrete time sequence indices and their corresponding fast algorithms and second it investigates the properties of the discrete time sequences and the corresponding fast algorithms for processing these sequences Digital Signal Processing Algorithms examines three of the most common computational tasks that occur in digital signal processing namely cyclic convolution acyclic convolution and discrete Fourier transformation The application of number theory to deriving fast and efficient algorithms for these three and related computationally intensive tasks is clearly discussed and illustrated with examples Its comprehensive coverage of digital signal processing computer arithmetic and coding theory makes Digital Signal Processing Algorithms an excellent reference for practicing engineers The authors intent to demystify the abstract nature of number theory and the related algebra is evident throughout the text providing clear and precise coverage of the quickly evolving field of digital signal processing **Digital Signal Processing Prokais**, $\Pi\Pi\Pi\Pi\Pi\Pi\Pi\Pi\Pi.2001$ Signal Processing Algorithms Hari Krishna, 1998-03-25 Digital Signal Processing Algorithms describes computational number theory and its applications to deriving fast algorithms for digital signal processing It demonstrates the importance of computational number theory in the design of digital signal processing algorithms and clearly describes the nature and structure of the algorithms themselves The book has two primary focuses first it establishes the properties of discrete time sequence indices and their corresponding fast algorithms and second it investigates the properties of the discrete time sequences and the corresponding fast algorithms for processing these sequences Digital Signal Processing Algorithms examines three of the most common computational tasks that occur in digital signal processing namely cyclic convolution acyclic convolution and discrete Fourier transformation The application of number theory to deriving fast and efficient algorithms for these three and related computationally intensive tasks is clearly discussed and illustrated with examples Its comprehensive coverage of digital signal processing computer arithmetic and coding theory makes Digital Signal Processing Algorithms an excellent reference for practicing engineers The authors intent to demystify the abstract nature of number theory and the related algebra is evident throughout the text providing clear and precise coverage of the quickly evolving field of digital signal processing **Digital Signal Processing** Salvatore Morgera, 2012-12-02 Digital Signal Processing Applications to Communications and Algebraic Coding Theories discusses the design of computationally efficient digital signal processing algorithms over finite fields and the relation of these algorithms to algebraic error correcting codes The book provides chapters that cover such topics as signal processing techniques employed for modeling synthesis and analysis systems of bilinear forms efficient finite field algorithms the design and study of long length cyclic convolutions and some preliminary results on their relation to linear codes the study of the algebraic structure of the class of linear codes obtained from bilinear cyclic and aperiodic convolution algorithms over the finite field of interest and the concept of a generalized

hybrid Automatic Repeat Request ARQ scheme for adaptive error control in digital communication systems Engineers mathematicians and computer scientists will find the text invaluable

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