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this innovative book and cd rom learning system offers students and teachers a hands on interactive tool that makes the concepts and tools of modern computer

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in three parts this book contributes to the advancement of engineering education and that serves as a general reference on digital signal processing part i presents the basics of analog and digital signals and systems in the time and frequency domain it covers the core topics convolution transforms filters and random signal analysis it also treats important applications including signal detection in noise radar range estimation for airborne targets binary communication systems channel estimation banking and financial applications and audio effects production part ii considers selected signal processing systems and techniques core topics covered are the hilbert transformer binary signal transmission phase locked loops sigma delta modulation noise shaping quantization adaptive filters and non stationary signal analysis part iii presents some selected advanced dsp topics

an excellent introductory book review of the first edition in the international journal of electrical engineering education it will serve as a reference book in this area for a long time review of revised edition in zentralblatt für mathematik germany firmly established as the essential introductory digital signal processing dsp text this second edition reflects the growing importance of random digital signals and random dsp in the undergraduate syllabus by including two new chapters the authors practical problem solving approach to dsp continues in this new material which is backed up by additional worked examples and computer programs the book now features fundamentals of digital signals and systems time and frequency domain analysis and processing including digital convolution

and the discrete and fast fourier transforms design and practical application of digital filters description and processing of random signals including correlation filtering and the detection of signals in noise programs in c and equivalent pascal are listed in an appendix typical results and graphic plots from all the programs are illustrated and discussed in the main text the overall approach assumes no prior knowledge of electronics computing or dsp an ideal text for undergraduate students in electrical electronic and other branches of engineering computer science applied mathematics and physics practising engineers and scientists will also find this a highly accessible introduction to an increasingly important field

cd rom contains source code listings problem sets and an ebook version with full text search

classical signal processing techniques are based primarily on the analog nature of all signals however the continuously improving performance of digital circuitry and processors has prompted a switch to digital signal processing techniques rather than the traditional analog ones applied signal processing recognizes the linkage between

introductory systematic treatment of the many interrelated aspects twenty three contributions address the fundamentals spectral estimation algorithms image processing land and ocean seismic data telecommunications 3 d object reconstructions alk paper annotation copyright book news inc po

this book is the perfect source for those interested in learning the basic principles of digital signal processing features an exceptionally accessible writing style and emphasizes the theoretical aspects of digital signal processing explains how the coefficients of the discrete time system equation are selected in order to implement the desired digital filter includes overview of the continuous time system theory including coverage convolution system impulse response and the fourier transform illustrates the power of dsp by inclusion of a chapter on adaptive fir filters using the lms algorithm discusses oversampling downsampling upsampling and introduces the theory of random signals and their associated power spectral density functions for anyone wanting an easily accessible theoretical introduction to digital signal processing

modern coverage of the fundamentals implementation and applications of digital signal processing techniques from a practical point of view this successful textbook covers most aspects of dsp found in undergraduate electrical electronic or communications engineering courses unlike many other texts it also covers a number of dsp techniques which are of particular relevance to industry

such as adaptive filtering and multirate processing the emphasis throughout the book is on the practical aspects of dsp

this book introduces the basic concepts of signal processing for scientists and students with no engineering background the book presents the concepts with minimum use of mathematical formulations and more emphasis on visual illustrations the idea is to present an intuitive approach to understanding the basics of signal processing and exemplify some practical applications of the concepts by which the readers achieve basic knowledge and skills in signal processing most of illustrations in the book have been created by computer programming in matlab thus the reader will learn the basics of using computers in signal processing applications

a valuable introduction to the fundamentals of continuous and discrete time signal processing this book is intended for the reader with little or no background in this subject the emphasis is on development from basic principles with this book the reader can become knowledgeable about both the theoretical and practical aspects of digital signal processing some special features of this book are 1 gradual and step by step development of the mathematics for signal processing 2 numerous examples and homework problems 3 evolutionary development of fourier series discrete fourier transform fourier transform laplace transform and z transform 4 emphasis on the relationship between continuous and discrete time signal processing 5 many examples of using the computer for applying the theory 6 computer based assignments to gain practical insight 7 a set of computer programs to aid the reader in applying the theory

covers the analysis and representation of discrete time signals and systems including discrete time convolution difference equations the z transform and the discrete time fourier transform emphasis is placed on the similarities and distinctions between discrete time and continuous time signals and systems also covers digital network structures for implementation fo both recursive infinite impulse response and nonrecursive finite impulse response digital filters with four videocassettes devoted to digital filter design for recursive and nonrecursive filters concludes with a discussion of the fast fourier transform algorithm for computation of the discrete fourier transform

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 the full text downloaded to your computer with ebooks you can search for key concepts words and phrases make highlights and notes as you study share your notes with friends ebooks are downloaded to your computer and accessible either offline through the bookshelf available as a free download available online and also via the ipad and android apps upon purchase you II gain instant access to this ebook time limit the ebooks products do not have an expiry date you will continue to access your digital ebook products whilst you have your bookshelf installed

an introduction to digital signal processing is written for those who need to understand and use digital signal processing and yet do not wish to wade through a multi semester course sequence using only calculus level mathematics this book progresses rapidly through the fundamentals to advanced topics such as iterative least squares design of iir filters inverse filters power spectral estimation and multidimensional applications all in one concise volume this book emphasizes both the fundamental principles and their modern computer implementation it presents and demonstrates how simple the actual computer code is for advanced modern algorithms used in dsp results of these programs which the reader can readily duplicate and use on a pc are presented in many actual computer drawn plots assumes no previous knowledge of signal processing but leads up to very advanced techniquescombines exposition of fundamental principles with practical applications includes problems with each chapter presents in detail the appropriate computer algorithums for solving problems

a reference work on all aspects and applications of digital signal processing which covers the design of hardware and software systems and the principles and applications of video processing communications sonar and radar

this book presents an exhaustive exposition of the theory and practice of digital signal processing basic concepts and techniques have been explained in detail and suitably illustrated with practical examples and software programs practice problems and projects have also been given throughout the book the book begins with an introduction to signals and the relative merits of analog and digital methods hardware details of present day dsp integrated circuits are explained next and full tested circuits are provided for project work by students fourier transforms are then explained in detail subsequently recursive filter design methods are discussed with typical examples and programs an exhaustive account of various filters is then given with design techniques the discussion is illustrated through software programs and practical design examples the book

concludes with a detailed discussion of lattice type filters and their usage in speech processing with its comprehensive coverage and practical approach this is an essential text for electrical electronics and communication engineering students practising engineers would also find this book to be a valuable reference source

signal processing is now a multidisciplinary topic and one that has applications in many fields including but not limited to science engineering medicine finance and the behavioural sciences modern software libraries that include dedicated languages and packages designed to simplify the development and application of signal processing techniques are now readily available however this ease of application means that an understanding of the various techniques is imperative it is critical that the student or practitioner is able to choose an appropriate processing technique be aware of potential errors involved and understand how to control them discover signal processing exploits the rationale of learning by doing actually attempting and performing a task is the most effective way to remember and understand it presents the reader with a diverse range of exercises some intended to recall or practice simple concepts others more complex aimed at developing a real understanding of the issues involved these are accompanied by step by step explanations of the tools and techniques required provides systematic organized and accessible instruction in a complex and mathematical subject stresses the understanding selection and application of available signal processing techniques as well as identification and control of error mechanisms includes more than 60 exercises covering major aspects of signal processing tools geared at performing or testing specific tasks uses matlab as a platform utilizing its extensive gui capabilities enabling exercises to be performed using graphical elements only discover signal processing provides an excellent accessible guide to signal processing for mechanical aeronautical civil and electronic engineers in their senior graduate year it will also be of interest to those attending cpd courses as well as to practicing engineers

provides a guide to signal processing techniques and a wide variety of applications it shows the range and use of the many alternative fast orthogonal transform algorithms now becoming available

probability and random processes second edition presents pertinent applications to signal processing and communications two areas of key interest to students and professionals in today s booming communications industry the book includes unique chapters on narrowband random processes and simulation techniques it also describes applications in digital communications information theory coding theory image processing speech analysis synthesis and recognition and others

exceptional exposition and numerous worked out problems make this book extremely readable and accessible the authors connect the applications discussed in class to the textbook the new edition contains more real world signal processing and communications applications it introduces the reader to the basics of probability theory and explores topics ranging from random variables distributions and density functions to operations on a single random variable there are also discussions on pairs of random variables multiple random variables random sequences and series random processes in linear systems markov processes and power spectral density this book is intended for practicing engineers and students in graduate level courses in the topic exceptional exposition and numerous worked out problems make the book extremely readable and accessible the authors connect the applications discussed in class to the textbook the new edition contains more real world signal processing and communications applications includes an entire chapter devoted to simulation techniques

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