

Ganesh Rao Digital Signal Processing Text

Digital Signal Processing EEG Signal Processing Advances in Signal Processing and Intelligent Recognition Systems Soft Computing and Signal Processing Advances in Swarm Intelligence for Optimizing Problems in Computer Science Speech and Audio Processing in Adverse Environments Linear Systems and Signals Signals and Systems, 2e Signals & Systems - A Simplified Approach 4Th Ed. Analog and Mixed Mode Vlsi Design Digital Signal Processing with Matlab Examples, Volume 3 Digital Signal Processing Digital Signal Processing - 4th Edn. Broadband Wireless Communications Signal Processing Methods for Music Transcription Digital Communications and Signal Processing (Second Edition) DIGITAL SIGNAL PROCESSING Advanced Digital Signal Processing Digital Signal Processing Elements of Engineering Electromagnetics Sensor Array Signal Processing Introduction to Digital Signal Processing Using MATLAB Encyclopedia of Information Science and Technology Internet-of-Things (IoT) Systems A Practical Approach to Signals and Systems Analog Communications Contemporary Communication Systems Using MATLAB Techno-Societal 2018 Probability, Statistics, and Random Processes for Engineers Digital Signal Processing Analog and Digital Signal Processing Digital Signal Processing- Theroy And Lab Practice Comanche Heart Generalized Principal Component Analysis Signals And Systems: A Perspective Towards Communication Systems Multirate Filtering for Digital Signal

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Processing: MATLAB Applications
Signals and Systems
Network Analysis
Digital Signal Processing
Fast Fourier Transform - Algorithms and Applications

Digital Signal Processing

EEG Signal Processing

Users of signal processing systems are never satisfied with the system they currently use. They are constantly asking for higher quality, faster performance, more comfort and lower prices. Researchers and developers should be appreciative for this attitude. It justifies their constant effort for improved systems. Better knowledge about biological and physical interrelations coming along with more powerful technologies are their engines on the endless road to perfect systems. This book is an impressive image of this process. After "Acoustic Echo 1 and Noise Control" published in 2004 many new results lead to "Topics in 2 Acoustic Echo and Noise Control" edited in 2006. Today - in 2008 - even more new findings and systems could be collected in this book. Comparing the contributions in both edited volumes progress in knowledge and technology becomes clearly visible: Blind methods and multi-input systems replace "highly" low complexity systems. The functionality of new systems is less and less limited by the processing power available under economic constraints. The editors have to thank all the authors for their contributions. They cooperated readily in our effort to unify the

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layout of the chapters, the terminology, and the symbols used. It was a pleasure to work with all of them. Furthermore, it is the editors concern to thank Christoph Baumann and the Springer Publishing Company for the encouragement and help in publishing this book.

Advances in Signal Processing and Intelligent Recognition Systems

This text on Analog communication is designed for senior undergraduate level students in Electronics and communication engineering. The book takes you through basics of communication systems, different types of modulation schemes, Random variables, Random process and end with a detailed study on noise. Features Text is written in a lucid manner to make the reading a happy sojourn. Explained difficult abstract concepts in a convincing manner. Lots of diagram and figures have been given to make the subject clear. Graded worked examples are given to meet the needs of university examinations. Exercise problems are given at the end of every chapter for a self test. Contents Fourier transforms, its properties, system analysis and application. Basics of Communications system, different techniques of AM generation and their detection schemes. Different types of angle modulation techniques and their domain representations. Random variables and random process. Basics of probability theory, probability density functions, transformation of random variables, auto correlation function and its properties, transmission of random process through

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filters, Power spectral density and its properties, Gaussian process and its properties and white noise process. Basics of noise, the reason of noise, different types of noises and their properties. Noise in continuous wave modulation systems.

Soft Computing and Signal Processing

Advances in Swarm Intelligence for Optimizing Problems in Computer Science

This book presents an introduction to the principles of the fast Fourier transform. This book covers FFTs, frequency domain filtering, and applications to video and audio signal processing. As fields like communications, speech and image processing, and related areas are rapidly developing, the FFT as one of essential parts in digital signal processing has been widely used. Thus there is a pressing need from instructors and students for a book dealing with the latest FFT topics. This book provides thorough and detailed explanation of important or up-to-date FFTs. It also has adopted modern approaches like MATLAB examples and projects for better understanding of diverse FFTs.

Speech and Audio Processing in Adverse Environments

This book provides a comprehensive introduction to the latest advances in the mathematical theory and

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computational tools for modeling high-dimensional data drawn from one or multiple low-dimensional subspaces (or manifolds) and potentially corrupted by noise, gross errors, or outliers. This challenging task requires the development of new algebraic, geometric, statistical, and computational methods for efficient and robust estimation and segmentation of one or multiple subspaces. The book also presents interesting real-world applications of these new methods in image processing, image and video segmentation, face recognition and clustering, and hybrid system identification etc. This book is intended to serve as a textbook for graduate students and beginning researchers in data science, machine learning, computer vision, image and signal processing, and systems theory. It contains ample illustrations, examples, and exercises and is made largely self-contained with three Appendices which survey basic concepts and principles from statistics, optimization, and algebraic-geometry used in this book. René Vidal is a Professor of Biomedical Engineering and Director of the Vision Dynamics and Learning Lab at The Johns Hopkins University. Yi Ma is Executive Dean and Professor at the School of Information Science and Technology at ShanghaiTech University. S. Shankar Sastry is Dean of the College of Engineering, Professor of Electrical Engineering and Computer Science and Professor of Bioengineering at the University of California, Berkeley.

Linear Systems and Signals

Concisely covers all the important concepts in an easy-

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to-understand way Gaining a strong sense of signals and systems fundamentals is key for general proficiency in any electronic engineering discipline, and critical for specialists in signal processing, communication, and control. At the same time, there is a pressing need to gain mastery of these concepts quickly, and in a manner that will be immediately applicable in the real world. Simultaneous study of both continuous and discrete signals and systems presents a much easy path to understanding signals and systems analysis. In A Practical Approach to Signals and Systems, Sundararajan details the discrete version first followed by the corresponding continuous version for each topic, as discrete signals and systems are more often used in practice and their concepts are relatively easier to understand. In addition to examples of typical applications of analysis methods, the author gives comprehensive coverage of transform methods, emphasizing practical methods of analysis and physical interpretations of concepts. Gives equal emphasis to theory and practice Presents methods that can be immediately applied Complete treatment of transform methods Expanded coverage of Fourier analysis Self-contained: starts from the basics and discusses applications Visual aids and examples makes the subject easier to understand End-of-chapter exercises, with a extensive solutions manual for instructors MATLAB software for readers to download and practice on their own Presentation slides with book figures and slides with lecture notes A Practical Approach to Signals and Systems is an excellent resource for the electrical engineering student or professional to quickly gain an understanding of

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signal analysis concepts - concepts which all electrical engineers will eventually encounter no matter what their specialization. For aspiring engineers in signal processing, communication, and control, the topics presented will form a sound foundation to their future study, while allowing them to quickly move on to more advanced topics in the area. Scientists in chemical, mechanical, and biomedical areas will also benefit from this book, as increasing overlap with electrical engineering solutions and applications will require a working understanding of signals. Compact and self contained, A Practical Approach to Signals and Systems be used for courses or self-study, or as a reference book.

Signals and Systems, 2e

Sensors arrays are used in diverse applications across a broad range of disciplines. Regardless of the application, however, the tools of sensor array signal processing remain the same. Furthermore, whether your interest is in acoustic, seismic, mechanical, or electromagnetic wavefields, they all have a common mathematical framework. Mastering this framework and those tools lays a strong foundation for more specialized study and research. Sensor Array Signal Processing helps build that foundation. It unravels the underlying principles of the subject without reference to any particular application. Instead, the author focuses on the common threads that exist in wavefield analysis. After introducing the basic equations governing different wavefields, the treatment includes topics from simple

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beamformation, spatial filtering, and high resolution DOA estimation to imaging and reflector mapping. It studies different types of sensor configurations, but focuses on the uniform linear and circular arrays-the most useful configurations for understanding array systems in practice. Unique in its approach, depth, and quantitative focus, *Sensor Array Signal Processing* offers the ideal starting point and an outstanding reference for those working or interested in medical imaging, astronomy, radar, communications, sonar, seismology-any field that studies propagating wavefields. Its clear exposition, numerical examples, exercises, and wide applicability impart a broad picture of array signal processing unmatched by any other text on the market.

Signals & Systems - A Simplified Approach 4Th Ed.

This Edited Volume gathers a selection of refereed and revised papers originally presented at the Third International Symposium on Signal Processing and Intelligent Recognition Systems (SIRS'17), held on September 13-16, 2017 in Manipal, India. The papers offer stimulating insights into biometrics, digital watermarking, recognition systems, image and video processing, signal and speech processing, pattern recognition, machine learning and knowledge-based systems. Taken together, they offer a valuable resource for all researchers and scientists engaged in the various fields of signal processing and related areas.

Analog and Mixed Mode Vlsi Design

This textbook and reference for graduate level courses in digital signal processing can be used in a variety of courses. It includes details about deterministic signal processing, algorithms for convolution and DFT, multirate DSP, digital filter banks, wavelets and multiresolution analysis.

Digital Signal Processing with Matlab Examples, Volume 3

Digital Signal Processing

Accompanying computer disk contains a suite of MATLAB m-files that reside in two directories called adsp and gui on the supplied disk.

Digital Signal Processing - 4th Edn.

This book focuses on teaching probabilistic and statistical methods to upper-division electrical and computer engineering (EECE) students. It is the result of over 20 years of teaching this course in the rapidly changing environment of EECE education. In addition to being a readable and focused book for EECE students, the book is a teachable book for EECE instructors with a variety of technical backgrounds. The first part of the book, Chapters 1-3, contains fundamental probability material. The second part, Chapters 4-7, presents applications and extensions based upon the first three chapters. The four

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application chapters may be studied in any order, as they do not depend on each other in any essential way.

Broadband Wireless Communications

This text examines applications and covers statics with an emphasis on the dynamics of engineering electromagnetics. This edition features a new chapter on electromagnetic principles for photonics, and sections on cylindrical metallic waveguides and losses in waveguides and resonators.

Signal Processing Methods for Music Transcription

This second edition text focuses on the fundamentals of digital signal processing with an emphasis on practical applications. In order to motivate students, many of the examples illustrate the processing of speech and music. This theme is also a focus of the course software that features facilities for recording and playing sound on a standard PC. The accompanying website contains a comprehensive MATLAB software package called the Fundamentals of Digital Signal Processing (FDSP) toolbox version 2.0. The FDSP toolbox includes chapter GUI modules, an extensive library of DSP functions, all computational examples that appear in the text, the text figures, solutions to selected problems, and online help documentation. Using the interactive GUI modules, students can explore, compare, and directly experience the effects of signal processing techniques

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without any need for programming.

Digital Communications and Signal Processing (Second Edition)

Digital Signal Processing is a comprehensive textbook designed for undergraduate and postgraduate students of engineering for a course on digital signal processing. Divided into 17 Chapters, this text covers basic topics to the advanced topics relevant to the UG curricula. Following the book's step-by-step approach, students can quickly master the fundamental concepts and applications of DSP.

DIGITAL SIGNAL PROCESSING

This is a book about fundamentals to serve the needs of an introductory, one semester, course in DSP. We have attempted to do a thorough job on the basic principles because our experience has been that these are the most difficult concepts for students to master. Once the fundamentals are strong, an understanding of advanced concept can be done without much ado. This is also a book about problems solving, seeing interrelationships and connections, and integrating one's knowledge. Features The conventional writing style in the book conveys our objective of getting the reader involved with the material as a participant in the development, rather than a mute observer. A self-contained presentation of DSP techniques that requires only a minimum amount of calculus and advanced level topics involving complex numbers as prerequisites. Each

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chapter begins with a brief introduction and ends with the summary of points. The actual concepts are sandwiched between them. This brings as to the memory a good old adage: tell them what you are going to tell them; tell them what you have told them. A large number of worked examples and reinforcement problems are provided to learn, strengthen and master the abstract concepts. Figures are drawn in abundance with clarity to illustrate the important concepts. Consistent notation is an indispensable part of accuracy; ambiguous notation leads to confusion. We have invested effort in developing a consistent notation for this book. In explaining theoretical concepts, accuracy is almost important. We therefore avoid cutting corners but spend the necessary time and effort to supply accurate and detailed derivations. Organized procedures for digital filter design. Designs are verified by checking the given frequency domains specifications. Answers are provided to all the exercise problems at the end of each chapter.

Contents Introduction to Signals and Systems The Z-Transformation The DFT and FFT Design of IIR Filters Design of FIR Filters Realization of Digital Filters.

Advanced Digital Signal Processing

Digital Signal Processing

"This book covers basic and the advanced approaches in the design and implementation of multirate filtering"--Provided by publisher.

Elements of Engineering Electromagnetics

"This set of books represents a detailed compendium of authoritative, research-based entries that define the contemporary state of knowledge on technology"--Provided by publisher.

Sensor Array Signal Processing

Featuring a variety of applications that motivate students, this book serves as a companion or supplement to any of the comprehensive textbooks in communication systems. The book provides a variety of exercises that may be solved on the computer using MATLAB. By design, the treatment of the various topics is brief. The authors provide the motivation and a short introduction to each topic, establish the necessary notation, and then illustrate the basic concepts by means of an example. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Introduction to Digital Signal Processing Using MATLAB

Digital Signal Processing, Second Edition enables electrical engineers and technicians in the fields of biomedical, computer, and electronics engineering to master the essential fundamentals of DSP principles and practice. Many instructive worked examples are used to illustrate the material, and the use of

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mathematics is minimized for easier grasp of concepts. As such, this title is also useful to undergraduates in electrical engineering, and as a reference for science students and practicing engineers. The book goes beyond DSP theory, to show implementation of algorithms in hardware and software. Additional topics covered include adaptive filtering with noise reduction and echo 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 PCM, u-law, ADPCM, and multi-rate DSP and over-sampling ADC. New to this edition: MATLAB projects dealing with practical applications added throughout the book New chapter (chapter 13) covering sub-band coding and wavelet transforms, methods that have become popular in the DSP field New applications included in many chapters, including applications of DFT to seismic signals, electrocardiography data, and vibration signals All real-time C programs revised for the TMS320C6713 DSK Covers DSP principles with emphasis on communications and control applications Chapter objectives, worked examples, and end-of-chapter exercises aid the reader in grasping key concepts and solving related problems Website with MATLAB programs for simulation and C programs for real-time DSP

Encyclopedia of Information Science and Technology

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The text is designed for the undergraduate student of Electronics and Communication Engineering as the first introduction to Signals, their behaviour and representations, and System responses. The content has been carefully sequenced to help students make a smooth transition to the understanding of Signals by introducing the previously learnt concepts of Laplace and Z Transforms (in mathematics) early in the discussions in this text. With numerous pedagogical features and MATLAB examples, the book will aid the student in understanding the practicality of the subject better.?

Internet-of-Things (IoT) Systems

A Practical Approach to Signals and Systems

Electroencephalograms (EEGs) are becoming increasingly important measurements of brain activity and they have great potential for the diagnosis and treatment of mental and brain diseases and abnormalities. With appropriate interpretation methods they are emerging as a key methodology to satisfy the increasing global demand for more affordable and effective clinical and healthcare services. Developing and understanding advanced signal processing techniques for the analysis of EEG signals is crucial in the area of biomedical research. This book focuses on these techniques, providing expansive coverage of algorithms and tools from the field of digital signal processing. It discusses their

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applications to medical data, using graphs and topographic images to show simulation results that assess the efficacy of the methods. Additionally, expect to find: explanations of the significance of EEG signal analysis and processing (with examples) and a useful theoretical and mathematical background for the analysis and processing of EEG signals; an exploration of normal and abnormal EEGs, neurological symptoms and diagnostic information, and representations of the EEGs; reviews of theoretical approaches in EEG modelling, such as restoration, enhancement, segmentation, and the removal of different internal and external artefacts from the EEG and ERP (event-related potential) signals; coverage of major abnormalities such as seizure, and mental illnesses such as dementia, schizophrenia, and Alzheimer's disease, together with their mathematical interpretations from the EEG and ERP signals and sleep phenomenon; descriptions of nonlinear and adaptive digital signal processing techniques for abnormality detection, source localization and brain-computer interfacing using multi-channel EEG data with emphasis on non-invasive techniques, together with future topics for research in the area of EEG signal processing. The information within EEG Signal Processing has the potential to enhance the clinically-related information within EEG signals, thereby aiding physicians and ultimately providing more cost effective, efficient diagnostic tools. It will be beneficial to psychiatrists, neurophysiologists, engineers, and students or researchers in neurosciences. Undergraduate and postgraduate biomedical engineering students and postgraduate epileptology students will also find it a

helpful reference.

Analog Communications

This is the third volume in a trilogy on modern Signal Processing. The three books provide a concise exposition of signal processing topics, and a guide to support individual practical exploration based on MATLAB programs. This book includes MATLAB codes to illustrate each of the main steps of the theory, offering a self-contained guide suitable for independent study. The code is embedded in the text, helping readers to put into practice the ideas and methods discussed. The book primarily focuses on filter banks, wavelets, and images. While the Fourier transform is adequate for periodic signals, wavelets are more suitable for other cases, such as short-duration signals: bursts, spikes, tweets, lung sounds, etc. Both Fourier and wavelet transforms decompose signals into components. Further, both are also invertible, so the original signals can be recovered from their components. Compressed sensing has emerged as a promising idea. One of the intended applications is networked devices or sensors, which are now becoming a reality; accordingly, this topic is also addressed. A selection of experiments that demonstrate image denoising applications are also included. In the interest of reader-friendliness, the longer programs have been grouped in an appendix; further, a second appendix on optimization has been added to supplement the content of the last chapter.

Contemporary Communication Systems

Using MATLAB

This book serves as an ideal starting point for newcomers and an excellent reference source for people already working in the field. Researchers and graduate students in signal processing, computer science, acoustics and music will primarily benefit from this text. It could be used as a textbook for advanced courses in music signal processing. Since it only requires a basic knowledge of signal processing, it is accessible to undergraduate students.

Techno-Societal 2018

This book is a text on Signals and Systems, at the Second year degree level. The purpose of writing this book was to provide the reader with a precise practical up-to-date exposition of Signals and Systems. Accordingly this book contains a wealth of material that trains a student to face the challenges posed by growing trends in communication, controls, signal processing and other allied areas. Features Reflects our passion towards teaching by explaining tough abstract concepts in a very convincing manner without compromising the concepts. Consistency is an essential requirement of conviction. Hence, care is taken to make the subject matter more consistent in respect of various symbols and their implications. Problems are graded to meet the needs of University examination as well as qualifying examinations like GATE, IES. etc. Contents Fundamentals Linear Time - Invariant Systems Fourier Analysis and its Applications The Z-transform.

Probability, Statistics, and Random Processes for Engineers

Broadband Wireless Access is a highly challenging and fast changing area of multimedia radio communications. These papers on the subject are the proceedings of the 9th Tyrrhenian Workshop, held in Lerici, Italy, September 1997. They provide a prospect on the state of the art and future development, with a sufficiently wide focus to cover technological, architectural and regulatory issues. Emphasis is given to those advances of digital signal processing techniques, microwave monolithic integrated circuits and smart antennae that will allow the design of low cost user terminals with advanced capabilities. Specific attention is also devoted to the protocols these new terminals will use to access the radio medium, and to the kind of services that will eventually be provided to the end-user in the future. With contributions from worldwide experts, the material presented here is a timely and high-level overview of the field, and as well as being informative is a useful tool for promoting further investigation into the area of multimedia radio communications.

Digital Signal Processing

Signals and Systems is a comprehensive textbook designed for undergraduate students of engineering for a course on signals and systems. Each topic is explained lucidly by introducing the concepts first through abstract mathematical reasoning and illustrations, and then through solved examples-

Analog and Digital Signal Processing

Digital Signal Processing- Theory And Lab Practice

This book, divided in two volumes, originates from Techno-Societal 2018: the 2nd International Conference on Advanced Technologies for Societal Applications, Maharashtra, India, that brings together faculty members of various engineering colleges to solve Indian regional relevant problems under the guidance of eminent researchers from various reputed organizations. The focus is on technologies that help develop and improve society, in particular on issues such as the betterment of differently abled people, environment impact, livelihood, rural employment, agriculture, healthcare, energy, transport, sanitation, water, education. This conference aims to help innovators to share their best practices or products developed to solve specific local problems which in turn may help the other researchers to take inspiration to solve problems in their region. On the other hand, technologies proposed by expert researchers may find applications in different regions. This offers a multidisciplinary platform for researchers from a broad range of disciplines of Science, Engineering and Technology for reporting innovations at different levels.

Comanche Heart

This book provides comprehensive details of all

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Swarm Intelligence based Techniques available till date in a comprehensive manner along with their mathematical proofs. It will act as a foundation for authors, researchers and industry professionals. This monograph will present the latest state of the art research being done on varied Intelligent Technologies like sensor networks, machine learning, optical fiber communications, digital signal processing, image processing and many more.

Generalized Principal Component Analysis

This book covers essential topics in the architecture and design of Internet of Things (IoT) systems. The authors provide state-of-the-art information that enables readers to design systems that balance functionality, bandwidth, and power consumption, while providing secure and safe operation in the face of a wide range of threat and fault models. Coverage includes essential topics in system modeling, edge/cloud architectures, and security and safety, including cyberphysical systems and industrial control systems.

Signals And Systems: A Perspective Towards Communication Systems

The book includes research papers on current developments in the field of soft computing and signal processing, selected from papers presented at the International Conference on Soft Computing and Signal Processing (ICSCSP 2018). It features papers on

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current topics, such as soft sets, rough sets, fuzzy logic, neural networks, genetic algorithms and machine learning. It also discusses various aspects of these topics, like technologies, product implementation, and application issues.

Multirate Filtering for Digital Signal Processing: MATLAB Applications

Linear Systems and Signals, Third Edition, has been refined and streamlined to deliver unparalleled coverage and clarity. It emphasizes a physical appreciation of concepts through heuristic reasoning and the use of metaphors, analogies, and creative explanations. The text uses mathematics not only to prove axiomatic theory but also to enhance physical and intuitive understanding. Hundreds of fully worked examples provide a hands-on, practical grounding of concepts and theory. Its thorough content, practical approach, and structural adaptability make Linear Systems and Signals, Third Edition, the ideal text for undergraduates.

Signals and Systems

Amy Masters flees Texas for the golden hills of Oregon, but can never forget Swift Antelope, the Comanche warrior-turned-gunslinger who captured her heart. Reissue.

Network Analysis

Intended for a one-semester junior or senior level

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undergraduate course, this book provides a modern and self-contained introduction to digital signal processing (DSP). It is supplemented by a vast number of end-of-chapter problems such as worked examples, drill exercises, and application oriented problems that require the use of computational resources such as MATLAB. Also, many figures have been included to help the student grasp and visualize critical concepts. Results are tabulated and summarized for easy reference and access. It also attempts to provide a broader perspective by introducing useful applications and additional special topics in each chapter. These form the background for more advanced graduate courses, and also allow the book to be used as a source of basic reference for professionals across various disciplines interested in DSP.

Digital Signal Processing

The second edition of this well received text continues to provide coherent and comprehensive coverage of digital signal processing. It is designed for undergraduate students of Electronics and Communication engineering, Telecommunication engineering, Electronics and Instrumentation engineering, Electrical and Electronics engineering, Electronics and Computers engineering, Biomedical engineering and Medical Electronics engineering. This book will also be useful to AMIE and IETE students. Written with student-centred, pedagogically-driven approach, the text provides a self-contained introduction to the theory of digital signal processing.

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It covers topics ranging from basic discrete-time signals and systems, discrete convolution and correlation, Z-transform and its applications, realization of discrete-time systems, discrete-time Fourier transform, discrete Fourier series, discrete Fourier transform to fast Fourier transform. In addition to this, various design techniques for design of IIR and FIR filters are discussed. Multi-rate digital signal processing and introduction to digital signal processors and finite word length effects on digital filters are also covered. All the solved and unsolved problems in this book are designed to illustrate the topics in a clear way. MATLAB programs and the results for typical examples are also included at the end of chapters for the benefit of the students. New to This Edition A chapter on Finite Word Length Effects in Digital Filters Key Features • Numerous worked-out examples in each chapter • Short questions with answers help students to prepare for examinations and interviews • Fill in the blanks, review questions, objective type questions and unsolved problems at the end of each chapter to test the level of understanding of the subject

Fast Fourier Transform - Algorithms and Applications

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