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Architecture, Programming and Applications River Publishers
Meant for students and practicing engineers, this book provides a clear, comprehensive and up-to-date introduction to Digital Image Processing in a pragmatic style. An illustrative approach, practical examples and MATLAB applications given in the book help in bringing the theory to life.
Advanced Techniques and Applications
Pearson Education India

The garment manufacturing industry faces many global challenges due to various factors including competition, increased production costs, less productivity/efficiency and labor attribution. So, there is a need to focus and concentrate on identifying the real issues, taking corrective actions suited to the specific industrial centre of the unit, empowering the technical and managerial staff by enhancing their

knowledge and ability, analysing orders efficiently and deciding whether actions are viable for the company. Industrial engineering in apparel production reviews the techniques for internal correction and openness for a knowledge/technology approach that needs to be built into the mind of the faculties to be upgraded as system run, rather than people run. The author emphasizes that the industrial engineering concept needs to be imparted to the facilities to increase productivity. With its highly distinguished author, Industrial engineering in apparel production is a valuable reference for students, researchers, industrialists, academics and professionals in the clothing and textile industry.

Biosignal Processing Springer
Science & Business Media
Humans are the best functioning example of multimedia communication and computing - that is, we understand information and experiences through the unified perspective offered by our five senses. This innovative textbook presents emerging techniques in multimedia computing from an

experiential perspective in which each medium - audio, images, text, and so on - is a strong component of the complete, integrated exchange of information or experience. The authors' goal is to present current techniques in computing and communication that will lead to the development of a unified and holistic approach to computing using heterogeneous data sources. Gerald Friedland and Ramesh Jain introduce the fundamentals of multimedia computing, describing the properties of perceptually encoded information, presenting common algorithms and concepts for handling it, and outlining the typical requirements for emerging applications that use multifarious information sources. Designed for advanced undergraduate and beginning graduate courses, the book will also serve as an introduction for engineers and researchers interested in understanding the elements of multimedia and their role in building specific applications.

An Introduction to Digital Signal Processing
PHI Learning Pvt. Ltd.

This book comprises select peer-reviewed papers from the International Conference on VLSI, Signal Processing, Power Electronics, IoT, Communication and Embedded Systems (VSPICE-2020). The book provides insights into various aspects of the emerging fields in the areas Electronics and Communication Engineering as a holistic approach. The various topics covered in this book include VLSI, embedded systems, signal

processing, communication, power electronics and internet of things. This book mainly focuses on the most recent innovations, trends, concerns and practical challenges and their solutions. This book will be useful for academicians, professionals and researchers in the area of electronics and communications and electrical engineering.

MODERN DIGITAL SIGNAL PROCESSING
PHI Learning Pvt. Ltd.

Intended as a text for three courses—Signals and Systems, Digital Signal Processing (DSP), and DSP Architecture—this comprehensive book, now in its Second Edition, continues to provide a thorough understanding of digital signal processing, beginning from the fundamentals to the implementation of algorithms on a digital signal processor. This Edition includes a new chapter on Continuous Time Signals and Systems, and many Assembly and C programs, which are useful to conduct a laboratory course in Digital Signal Processing. Besides, many existing chapters are modified substantially to widen the coverage of the book. Primarily designed for undergraduate students of Electronics and Communication Engineering, Electronics and Instrumentation Engineering, Electrical and Electronics Engineering, Instrumentation and Control Engineering, Computer Science and Engineering, and Information Technology, this text will also be useful as a supplementary text for advanced digital signal processing and real time digital signal processing courses of Postgraduate programmes. **KEY FEATURES :** Provides a large number of worked-out examples to strengthen the grasp of the concepts of digital signal processing. Explains the architecture, addressing modes and instructions of TMS 320C54XX fixed point DSP with assembly language and C programs. Includes MATLAB programs and exercises throughout the book. Offers review questions and multiple choice questions at the end of each chapter to help students test their understanding about the

fundamentals of the subject. Contains MATLAB commands in Appendix.

Digital Signal Processors Springer Science & Business Media

Digital Signal Processing: A Computer-Based Approach is intended for a two-semester course on digital signal processing for seniors or first-year graduate students. Based on user feedback, a number of new topics have been added to the third edition, while some excess topics from the second edition have been removed. The author has taken great care to organize the chapters more logically by reordering the sections within chapters. More worked-out examples have also been included. The book contains more than 500 problems and 150 MATLAB exercises. New topics in the third edition include: short-time characterization of discrete-time signals, expanded coverage of discrete-time Fourier transform and discrete Fourier transform, prime factor algorithm for DFT computation, sliding DFT, zoom FFT, chirp Fourier transform, expanded coverage of z-transform, group delay equalization of IIR digital filters, design of computationally efficient FIR digital filters, semi-symbolic analysis of digital filter structures, spline interpolation, spectral factorization, discrete wavelet transform.

Foundations of Signal Processing McGraw-Hill Companies

The first of its kind to offer an integrated treatment of both the hardware and software aspects of the microprocessor, this comprehensive and thoroughly updated book focuses on the 8085 microprocessor family to teach the basic concepts underlying programmable devices. A three-part organization covers concepts and applications of microprocessor-based systems: hardware and interfacing, programming the 8085, and interfacing peripherals (I/Os) and applications.

Signal Processing and Analysis of Electrical Circuit
Laxmi Publications

Digital Signal Processing Laxmi Publications
Digital Signal Processing - 4th Edn. SIGNALS AND SYSTEMS. Foundations of Signal Processing Cambridge University Press
Analog and Digital Communications MIT Press

Designed for the undergraduate students of engineering, this book aims to introduce the

reader to the world of random signals and their analyses ? both of which are extremely crucial to the everyday life as well as professional capacity of the computer science and communication engineers. Probability Theory and Random Processes helps model and analyse random signals and their impact on system performances through a problem solving approach. In a highly pedagogical manner, the text carefully navigates through randomness of signal behaviour, thus helping the student grasp the content easily Salient Features : ? Pedagogy designed on examination patterns! o Solved Examples: 809!! o Practice Problems: 247 o Exercise Problems: 255 o Review Questions: 295 o MCQs: 211 o Diagrams: 216 ? Mathematical models explained following step-by-step approach ? Application based problems discussed aplenty

Digital Signal Processing Oxford University Press, USA

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.

Linear Integrated Circuits John Wiley & Sons

Mnoney's text focuses on basic concepts of digital signal processing, MATLAB simulation, and implementation on selected DSP hardware.

Digital Signal Processing Pearson

An engineer's introduction to concepts, algorithms, and advancements in Digital Signal Processing. This lucidly written resource makes extensive use of real-world examples as it covers all the important design and engineering references.

Noise and Vibration Analysis Springer Nature

A straightforward introduction to basic concepts and methodologies for digital photoelasticity, providing a foundation on which future researchers and students can develop their own ideas. The book thus promotes research into the formulation of problems in digital photoelasticity and the application of these techniques to industries. In one volume it provides data acquisition by DIP techniques, its analysis by statistical techniques, and its presentation by computer graphics plus the use of rapid prototyping technologies to speed up the entire process. The book not only presents the various techniques but also provides the relevant time-tested software codes. Exercises designed to support and extend the treatment are found at the end of each chapter.

Digital Signal Processing Springer

This comprehensive and engaging textbook introduces the basic principles and techniques of signal processing, from the fundamental ideas of signals and systems theory to real-world applications. Students are introduced to the powerful foundations of modern signal processing, including the basic geometry of Hilbert space, the mathematics of Fourier transforms, and essentials of sampling, interpolation, approximation and compression The authors discuss real-world issues

and hurdles to using these tools, and ways of adapting them to overcome problems of finiteness and localization, the limitations of uncertainty, and computational costs. It includes over 160 homework problems and over 220 worked examples, specifically designed to test and expand students' understanding of the fundamentals of signal processing, and is accompanied by extensive online materials designed to aid learning, including Mathematica® resources and interactive demonstrations.

Probability Theory and Random Processes

Woodhead Publishing Limited

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.

A Computer Based Approach Digital Signal Processing

Introduction to digital filters. Finite impulse-response filters. Design of linear-phase finite impulse-response. Minimum-phas and complex approximation. Implementation of finite impulse-response filters. Properties of infinite impulse-response filters. Design of infinite impulse-response filters.

Implementation of infinite impulse-response filters. Programs.

Digital Signal Processing Tata McGraw-Hill Education

A comprehensive and up-to-date textbook and reference for computational imaging, which

combines vision, graphics, signal processing, and optics. Computational imaging involves the joint design of imaging hardware and computer algorithms to create novel imaging systems with unprecedented capabilities. In recent years such capabilities include cameras that operate at a trillion frames per second, microscopes that can see small viruses long thought to be optically irresolvable, and telescopes that capture images of black holes. This text offers a comprehensive and up-to-date introduction to this rapidly growing field, a convergence of vision, graphics, signal processing, and optics. It can be used as an instructional resource for computer imaging courses and as a reference for professionals. It covers the fundamentals of the field, current research and applications, and light transport techniques. The text first presents an imaging toolkit, including optics, image sensors, and illumination, and a computational toolkit, introducing modeling, mathematical tools, model-based inversion, data-driven inversion techniques, and hybrid inversion techniques. It then examines different modalities of light, focusing on the plenoptic function, which describes degrees of freedom of a light ray. Finally, the text outlines light transport techniques, describing imaging systems that obtain micron-scale 3D shape or optimize for noise-free imaging, optical computing, and non-line-of-sight imaging. Throughout, it discusses the use of computational imaging methods in a range of application areas, including smart phone photography, autonomous driving, and medical imaging. End-of-chapter exercises help put the material in context.

Digital Signal Processing McGraw-Hill Education 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-*DIGITAL SIGNAL PROCESSING* Tata McGraw-Hill Education

This Special Issue with 35 published articles shows the significance of the topic "Signal Processing and Analysis of Electrical Circuit". This topic has been gaining increasing attention in recent times. The presented articles can be categorized into four different areas: signal processing and analysis

methods of electrical circuits; electrical measurement technology; applications of signal processing of electrical equipment; fault diagnosis of electrical circuits. It is a fact that the development of electrical systems, signal processing methods, and circuits has been accelerating.

Electronics applications related to electrical circuits and signal processing methods have gained noticeable attention in recent times. The methods of signal processing and electrical circuits are widely used by engineers and scientists all over the world. The constituent papers represent a significant contribution to electronics and present applications that can be used in industry. Further improvements to the presented approaches are required for realizing their full potential.

Principles and Practices Tata McGraw-Hill Education

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. 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