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This book provides an advanced overview of digital signal processing (DSP) and its applications to exploration seismology using real-world examples. The book begins by introducing seismic theory, ...

Advanced Digital Signal
Processing of Seismic

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for Internet dial up that
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Raj Talluri

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How to keep people

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feeling socially
connected across
distances and time zones
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processing chip or the
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How Does a Telephone
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Digital Signal
Processing: A Computer-
Based Approach is

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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

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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

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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

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analysis of digital filter structures, spline interpolation, spectral factorization, discrete wavelet transform.

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

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processing,
communications, sonar
and radar.

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. The
prerequisite for this
book is a junior-level

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course in linear continuous-time and discrete-time systems, which is usually required in most universities. A key feature of this book is the extensive use of MATLAB-based examples that illustrate the program's powerful capability to solve signal processing problems. Practical examples and

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applications bring the theory to life. This popular book introduces the tools used in the analysis and design of discrete-time systems for signal processing.

DIGITAL SIGNAL
PROCESSING
LABORATORY
USING MATLAB is
intended for a computer-
based DSP laboratory

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course that supplements a lecture course on Digital Signal Processing. The book can be used either as a stand-alone text or in conjunction with Mitra's Digital Signal Processing: A Computer-Based Approach. The book includes 11 laboratory exercises, with each exercise containing a number of

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projects to be carried out on a computer. The book assumes that the reader has no background in MATLAB and teaches the reader, through tested programs in the first half of the book, the basics of this powerful language in solving important problems in signal processing. In the second half of the book,

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the student is asked to write the necessary MATLAB programs to carry out the projects.

Edition

The growth in the field of digital signal processing began with the simulation of continuous-time systems in the 1950s, even though the origin of the field can be traced back to 400 years when

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methods were developed to solve numerically problems such as interpolation and integration. During the last 40 years, there have been phenomenal advances in the theory and application of digital signal processing. In many applications, the representation of a discrete-time signal or a system in the frequency

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domain is of interest. To this end, the discrete-time Fourier transform (DTFT) and the z-transform are often used. In the case of a discrete-time signal of finite length, the most widely used frequency-domain representation is the discrete Fourier transform (DFT) which results in a finite length sequence in the

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frequency domain. The DFT is simply composed of the samples of the DTFT of the sequence at equally spaced frequency points, or equivalently, the samples of its z-transform at equally spaced points on the unit circle. The DFT provides information about the spectral contents of the signal at

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equally spaced discrete frequency points, and thus, can be used for spectral analysis of signals. Various techniques, commonly known as the fast Fourier transform (FFT) algorithms, have been advanced for the efficient computation of the DFT. An important tool in digital signal processing is the linear

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convolution of two finite-length signals, which often can be implemented very efficiently using the DFT.

Digital signal processing (DSP) has been applied to a very wide range of applications. This includes voice processing, image processing, digital

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communications, the transfer of data over the internet, image and data compression, etc.

Engineers who develop DSP applications today, and in the future, will need to address many implementation issues including mapping algorithms to computational structures, computational

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efficiency, power dissipation, the effects of finite precision arithmetic, throughput and hardware implementation. It is not practical to cover all of these in a single text. However, this text emphasizes the practical implementation of DSP algorithms as well as the fundamental theories and analytical

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procedures that form
the basis for modern
DSP applications.

Digital Signal

Processing: Principles,
Algorithms and System
Design provides an
introduction to the
principals of digital
signal processing along
with a balanced
analytical and practical
treatment of algorithms
and applications for

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digital signal processing. It is intended to serve as a suitable text for a one semester junior or senior level undergraduate course. It is also intended for use in a following one semester first-year graduate level course in digital signal processing. It may also be used as a reference by professionals involved in the design of

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embedded computer systems, application specific integrated circuits or special purpose computer systems for digital signal processing, multimedia, communications, or image processing.

Covers fundamental theories and analytical procedures that form the basis of modern DSP Shows practical

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Implementation of DSP
in software and
hardware Includes
Matlab for design and
implementation of signal
processing algorithms
and related discrete time
systems Bridges the gap
between reference texts
and the knowledge
needed to implement
DSP applications in
software or hardware

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This book presents recent advances in DSP to simplify, or increase the computational speed of, common signal processing operations. The topics describe clever DSP tricks of the trade not covered in conventional DSP textbooks. This material is practical, real-world, DSP tips and tricks as opposed to the

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traditional highly-specialized, math-intensive, research subjects directed at industry researchers and university professors.

This book goes well beyond the standard DSP fundamentals textbook and presents new, but tried-and-true, clever implementations of digital filter design, spectrum analysis, signal

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generation, high-speed function approximation, and various other DSP functions.

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

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This book forms the first part of a complete MSc course in an area that is fundamental to the continuing revolution in information technology and communication systems. Massively exhaustive, authoritative, comprehensive and reinforced with software, this is an introduction to modern

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methods in the developing field of Digital Signal Processing (DSP). The focus is on the design of algorithms and the processing of digital signals in areas of communications and control, providing the reader with a comprehensive introduction to the underlying principles

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