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The most important
theoretical aspects of
Image and
Signal Processing
(ISP) for both

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deterministic and random signals, the theory being supported by exercises and computer simulations relating to real applications. More than 200 programs and functions are provided in the MATLAB® language, with useful comments and

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guidance, to enable numerical experiments to be carried out, thus allowing readers to develop a deeper understanding of both the theoretical and practical aspects of this subject.

Following on from the first volume, this second installation takes a more

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practical stance,
providing readers with
the applications of
ISP.

This systematically
designed laboratory
manual elucidates a
number of techniques
which help the
students carry out
various experiments
in the field of digital
signal processing,
digital image

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processing, digital signal processor and digital communication through MATLAB® in a single volume. A step-wise discussion of the programming procedure using MATLAB® has been carried out in this book. The numerous programming examples for each digital signal

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processing lab, image processing lab, signal processor lab and digital communication lab have also been included. The book begins with an introductory chapter on MATLAB®, which will be very useful for a beginner. The concepts are explained with the aid of screenshots. Then

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it moves on to discuss the fundamental aspects in digital signal processing through MATLAB®, with a special emphasis given to the design of digital filters (FIR and IIR). Finally digital communication and image processing sections in the book help readers to understand the

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commonly used
MATLAB® functions.

At the end of this
book, some basic
experiments using
DSP trainer kit have
also been included.

Audience This book is
intended for the
undergraduate
students of
electronics and
communication
engineering,

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electronics and instrumentation engineering, and instrumentation and control engineering for their laboratory courses in digital signal processing, image processing and digital communication.

Key Features •

Includes about 115 different experiments.

- Contains several

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figures to reinforce the understanding of the techniques discussed. • Gives systematic way of doing experiments such as Aim, Theory, Programs, Sample inputs and outputs, Viva voce questions and Examination questions.

Learn to use MATLAB as a useful computing

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tool for exploring
traditional Digital
Signal Processing
(DSP) topics and
solving problems to
gain insight. DIGITAL
SIGNAL
PROCESSING
USING MATLAB: A
PROBLEM SOLVING
COMPANION, 4E
greatly expands the
range and complexity
of problems that

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learners can effectively study.

Since DSP applications are primarily algorithms implemented on a DSP processor or software, they typically require a significant amount of programming. Using interactive software, such as MATLAB, enables readers to

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focus on mastering new and challenging concepts rather than concentrating on programming algorithms. This edition discusses interesting, practical examples and explores useful problems to provide the groundwork for further study.

Important Notice:

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This second edition text focuses on the fundamentals of digital signal processing with an emphasis on practical applications. In order to motivate students,

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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

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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

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selected problems,
and online help
documentation. Using
the interactive GUI
modules, students
can explore, compare,
and directly
experience the effects
of signal processing
techniques without
any need for
programming.

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Digital Signal
Processing with
Matlab Examples,
Volume 2

System Analysis and
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This updated edition gives readers hands-on experience in real-time DSP using a practical, step-by-step framework that also incorporates demonstrations,

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*exercises, and
problems,*

*coupled with
brief*

*overviews of
applicable
theory and*

MATLAB

applications.

*Organized in
three sections
that cover*

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*enduring
fundamentals
and present
practical
projects and
invaluable
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this new
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powerful of
the
inexpensive
DSP
development
boards
currently
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Texas
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LCDK. It includes two new real-time DSP projects, as well as three new appendices: an introduction to the Code Generation tools available with

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*MATLAB, a
guide on how
to turn the
LCDK into a
portable batte
ry-operated
device, and a
comparison of
the three DSP
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supported by*

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*this edition.
This fully
revised and
updated second
edition
presents the
most important
theoretical
aspects of
Image and
Signal
Processing*

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*(ISP) for both
deterministic
and random
signals. The
theory is
supported by
exercises and
computer
simulations
relating to
real
applications.*

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programs and
functions are
provided in
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language, with
useful
comments and
guidance, to
enable
numerical
experiments to*

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*be carried
out, thus
allowing
readers to
develop a
deeper
understanding
of both the
theoretical
and practical
aspects of
this subject.*

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updates : -
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to MATLAB
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functions as
well as the
Graphically
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*modifying the
contrast -*

*also added are
examples and
exercises.*

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edition text
focuses on the
fundamentals
of digital
signal
processing*

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*with an
emphasis on
practical
applications.
In order to
motivate
students, many
of the
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illustrate the
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speech and*

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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

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*website
contains a
comprehensive
MATLAB
software
package called
the
Fundamentals
of Digital
Signal
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(FDSP) toolbox*

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version 2.0.

The FDSP

toolbox

includes

chapter GUI

modules, an

extensive

library of DSP

functions,

direct access

to all of the

computational

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Using the
interactive
GUI modules,
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processing
techniques
without any
need for
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of subtle
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concepts, and

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then covers
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and discrete-
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passive
filters,
lattice
filters, and
continuous-*

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goes on to
discuss the
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followed by
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Walsh,*

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Hankel,
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also surveys
the
architecture*

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processors,
computer
architecture,
logic design
of sequential
circuits, and
random
signals. He
concludes with
simplifying*

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*and
demystifying
the vital
subject of
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*Drawing on
much of the
author's own
research work,
this book
expands the*

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discrete-time
signals and

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systems. At the beginning of each chapter, an abstract states the chapter objectives. All principles are also presented in a lucid, logical, step-by-step approach. As

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much as possible, the authors avoid wordiness and detail overload that could hide concepts and impede understanding. In recognition of requirements by the Accreditation

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integrating
computer tools,
the use of
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manner. MATLAB
is introduced

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in Appendix C and applied gradually throughout the book. Each illustrative example is immediately followed by practice problems along with its answer.

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Students can follow the example step-by-step to solve the practice problems without flipping pages or looking at the end of the book for answers. These practice

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problems test
students'
comprehension
and reinforce
key concepts
before moving
onto the next
section. Toward
the end of each
chapter, the
authors discuss
some
application

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aspects of the concepts covered in the chapter. The material covered in the chapter is applied to at least one or two practical problems. It helps students see how the

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concepts are
used in real-
life
situations.

Also,
thoroughly
worked examples
are given
liberally at
the end of
every section.

These examples
give students a

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solid grasp of
the solutions
as well as the
confidence to
solve similar
problems
themselves.
Some of hte
problems are
solved in two
or three ways
to facilitate a
deeper

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and comparison
of different
approaches.

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undergraduate
student in
electrical and
computer
engineering.

The
prerequisites
for a course
based on this
book are
knowledge of

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standard
mathematics,
including
calculus and
complex
numbers.

Although
Digital Signal
Processing
(DSP) has long
been considered
an electrical
engineering

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topic, recent developments have also generated significant interest from the computer science community. DSP applications in the consumer market, such as bioinformatics,

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the MP3 audio format, and MPEG-based cable/satellite television have fueled a desire to understand this technology outside of hardware circles.

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processes and

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needed to
ensure an
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of DSP theory.
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mathematical
topics or those
limited in
programming
experience.

Beginning with
an introduction
to MATLAB
programming, it
moves through
filters,
sinusoids,
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Fourier transform, the z-transform and other key topics. Two chapters are dedicated to the discussion of wavelets and their applications. A CD-ROM (platform

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independent)
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book and
contains source
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The rapid
advancement in
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recent years
has allowed the
implementation
of incredibly
sophisticated
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(DSP)

algorithms that
make real-time
tasks feasible.
Real-time DSP
is currently a

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very hot
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Instrument's
line of highly
successful DSP
chips, which is
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dominate the
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Placing
emphasis on the
practical
aspects of real
time DSP

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concepts and applications by taking a systems design, implementation and simulation approach, this text bridges the gap in the existing DSP literature which covers theory, MATLAB

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and C and Lab
manuals. A
hands-on,
tutorial
approach
enables the
understanding
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DSP systems
principles and
real-world
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using MATLAB, C

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Tutorial based
presentation,
allowing the
reader to
master the
theory of
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processing and

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the important
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time DSP design
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Focuses on
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DSP application

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Module (EVM)
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students of
digital signal
processing and
practising
engineers
developing real-
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applications.

This textbook provides an introduction to the study of digital signal processing, employing a top-to-bottom structure to motivate the reader, a graphical

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approach to the solution of the signal processing mathematics, and extensive use of MATLAB. In contrast to the conventional teaching approach, the book offers a

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top-down
approach which
first
introduces
students to
digital filter
design,
provoking
questions about
the
mathematical
tools required.
The following

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chapters
provide answers
to these
questions,
introducing
signals in the
discrete
domain, Fourier
analysis,
filters in the
time domain and
the Z-
transform. The

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author introduces the mathematics in a conceptual manner with figures to illustrate the physical meaning of the equations involved.

Chapter six builds on these

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concepts and discusses advanced filter design, and chapter seven discusses matters of practical implementation. This book introduces the corresponding MATLAB

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functions and programs in every chapter with examples, and the final chapter introduces the actual real-time filter from MATLAB. Aimed primarily at undergraduate

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students in
electrical and
electronic
engineering,
this book
enables the
reader to
implement a
digital filter
using MATLAB.

Signals,
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Medical Imaging Using Matlab

Computers are at the center of almost everything related to audio. Whether for synthesis in music production, recording in the studio, or mixing in live sound, the computer plays an essential part. Audio effects plug-ins and virtual instruments are implemented as

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software computer code.

*Music apps are computer
programs run on a*

mobile device. All these

tools are created by

programming a

computer. Hack Audio:

An Introduction to

Computer Programming

and Digital Signal

Processing in MATLAB

provides an introduction

for musicians and audio

engineers interested in

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computer programming.

It is intended for a range of readers including those with years of programming experience and those ready to write their first line of code. In the book, computer programming is used to create audio effects using digital signal processing. By the end of the book, readers implement the following

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*effects: signal gain
change, digital summing,
tremolo, auto-pan,
mid/side processing,
stereo widening,
distortion, echo, filtering,
equalization, multi-band
processing, vibrato,
chorus, flanger, phaser,
pitch shifter, auto-wah,
convolution and
algorithmic reverb,
vocoder, transient
designer, compressor,*

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expander, and de-esser.

Throughout the book, several types of test signals are synthesized, including: sine wave, square wave, sawtooth wave, triangle wave, impulse train, white noise, and pink noise.

Common visualizations for signals and audio effects are created including: waveform, characteristic curve,

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goniometer, impulse response, step response, frequency spectrum, and spectrogram. In total, over 200 examples are provided with completed code demonstrations.

Based on fundamental principles from mathematics, linear systems, and signal analysis, digital signal processing (DSP) algorithms are useful for

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*extracting information
from signals collected all
around us. Combined
with today's powerful
computing capabilities,
they can be used in a
wide range of
application areas,
including engineering,
communicati*

*This supplement to any
standard DSP text is one
of the first books to
successfully integrate the*

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use of MATLAB® in the study of DSP concepts.

In this book, MATLAB® is used as a computing tool to explore traditional DSP topics, and solve problems to gain insight.

This greatly expands the range and complexity of problems that students can effectively study in the course. Since DSP applications are primarily algorithms

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implemented on a DSP processor or software, a fair amount of programming is required. Using interactive software such as MATLAB® makes it possible to place more emphasis on learning new and difficult concepts than on programming algorithms. Interesting practical examples are discussed

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and useful problems are explored. This updated second edition includes new homework problems and revises the scripts in the book, available functions, and m-files to MATLAB® V7.

The book discusses receiving signals that most electrical engineers detect and study. The vast majority of signals could never be detected

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due to random additive signals, known as noise, that distorts them or completely overshadows them. Such examples include an audio signal of the pilot communicating with the ground over the engine noise or a bioengineer listening for a fetus' heartbeat over the mother's. The text presents the methods for

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*extracting the desired
signals from the noise.*

*Each new development
includes examples and
exercises that use*

*MATLAB to provide the
answer in graphic forms
for the reader's
comprehension and
understanding.*

*Algorithm Collections for
Digital Signal Processing
Applications Using
Matlab*

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Advances and

Applications: The

Deterministic Case

Decomposition,

Recovery, Data-Based

Actions

Understanding Digital

Signal Processing with

MATLAB® and

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This book examines signal processing techniques used in wireless communication illustrated by using the Matlab program. The author discusses these techniques as they relate to Doppler spread, Delay spread,

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Rician channel
modeling, rake
receiver,
diversity
techniques,
MIMO and OFDM
based
transmission
techniques, and
array signal
processing.
Related topics
such as detection***

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***theory, Link
budget, Multiple
access
techniques,
spread spectrum,
are also covered.***

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signal processing
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involved in
wireless
communication •
Discusses
multiple access***

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division multiple
access, Time
division multiple
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access • Covers
band pass
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techniques such
as Binary phase
shift keying,
Differential***

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keying,
Quadrature
phase shift
keying, Binary
frequency shift
keying, Minimum
shift keying, and
Gaussian
minimum shift
keying.
Digital signal
processing lies at
the heart of the***

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***communications
revolution and is
an essential
element of key
technologies
such as mobile
phones and the
Internet. This
book covers all
the major topics
in digital signal
processing (DSP)
design and
analysis,***

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techniques. The
authors explain
clearly and
concisely why
and how to use
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processing
systems; how to
approximate a
desired transfer***

***function
characteristic
using
polynomials and
ratio of
polynomials; why
an appropriate
mapping of a
transfer function
on to a suitable
structure is
important for
practical
applications; and***

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***how to analyse,
represent and
explore the trade-
off between time
and frequency
representation of
signals. An ideal
textbook for
students, it will
also be a useful
reference for
engineers
working on the
development of***

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***signal processing
systems.***

***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***

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***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***

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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***

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***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

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**content of the
last chapter.**

***In this
supplementary
text, MATLAB is
used as a
computing tool
to explore
traditional DSP
topics and solve
problems to gain
insight. This
greatly expands
the range and***

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***complexity of
problems that
students can
effectively study
in the course.***

***Since DSP
applications are
primarily
algorithms
implemented on
a DSP processor
or software, a
fair amount of
programming is***

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***required. Using
interactive
software such as
MATLAB makes
it possible to
place more
emphasis on
learning new and
difficult concepts
than on
programming
algorithms.
Interesting
practical***

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***examples are
discussed and
useful problems
are explored.***

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Hack Audio
Digital Signal
and Image
Processing using
MATLAB, Volume
3
A Primer With
MATLAB®
Digital Signal
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Laboratory Using
MATLAB
Conceptual

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***Digital Signal
Processing with
MATLAB***

This book describes medical imaging systems, such as X-ray, Computed tomography, MRI, etc. from the point of view

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of digital signal
processing.

Readers will see
techniques
applied to
medical imaging
such as Radon
transformation,
image
reconstruction,
image
rendering,

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image
enhancement
and restoration,
and more. This
book also
outlines the
physics behind
medical imaging
required to
understand the
techniques
being described.

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The presentation is designed to be accessible to beginners who are doing research in DSP for medical imaging. Matlab programs and illustrations are used wherever

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possible to
reinforce the
concepts being
discussed.

Volume 3 of the
second edition
of the fully
revised and
updated Digital
Signal and
Image
Processing using

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MATLAB®, after first two volumes on the “Fundamentals” and “Advances and Applications: The Deterministic Case”, focuses on the stochastic case.

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It will be of particular benefit to readers who already possess a good knowledge of MATLAB®, a command of the fundamental elements of digital signal

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processing and
who are familiar
with both the
fundamentals of
continuous-
spectrum
spectral analysis
and who have a
certain
mathematical
knowledge
concerning

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Hilbert spaces.
This volume is
focused on
applications, but
it also provides
a good
presentation of
the principles. A
number of
elements closer
in nature to
statistics than to

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signal processing itself are widely discussed. This choice comes from a current tendency of signal processing to use techniques from this field. More than 200

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programs and
functions are
provided in the
MATLAB®
language, with
useful
comments and
guidance, to
enable
numerical
experiments to
be carried out,

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thus allowing
readers to
develop a
deeper
understanding
of both the
theoretical and
practical aspects
of this subject.
This book uses
MATLAB as a
computing tool

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to explore traditional DSP topics and solve problems. This greatly expands the range and complexity of problems that students can effectively study in signal processing

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courses. A large number of worked examples, computer simulations and applications are provided, along with theoretical aspects that are essential in order to gain a

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good

understanding
of the main
topics.

Practicing
engineers may
also find it
useful as an
introductory text
on the subject.

DIGITAL SIGNAL
PROCESSING

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LABORATORY
USING MATLAB
is intended for a
computer-based
DSP laboratory
course that
supplements a
lecture course
on Digital Signal
Processing. The
book can be
used either as a

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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

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number of 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

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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, the

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

Digital Signal
Processing using
MATLAB

Digital Signal
Processing with

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Examples in
MATLAB

Digital Signal
and Image
Processing Using
MATLAB

Fundamentals
V3 - Advances
and

Applications:
The Stochastic
Case

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This title provides the most important theoretical aspects of Image and Signal Processing (ISP) for both deterministic and random signals. The theory is supported by exercises and

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*computer
simulations
relating to real
applications.*

*More than 200
programs and
functions are
provided in the
MATLAB®*

*language, with
useful comments
and guidance, to
enable numerical
experiments to*

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*be carried out,
thus allowing
readers to
develop a deeper
understanding of
both the
theoretical and
practical
aspects of this
subject.*

*Now readers can
focus on the
development,
implementation,*

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*and application
of modern DSP*

*techniques with
the new DIGITAL
SIGNAL*

*PROCESSING USING
MATLAB, 3E.*

*Written using an
engaging
informal style,
this edition
inspires readers
to become
actively*

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*involved with
each topic.
Every chapter
starts with a
motivational
section that
highlights
practical
examples and
challenges that
readers can
solve using
techniques
covered in the*

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*chapter. Each
chapter
concludes with a
detailed case
study example,
chapter summary,
and a generous
selection of
practical
problems cross-
referenced to
sections within
the chapter.*

Important

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Digital Signal
Processing Using
MATLAB Cengage
Learning*

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This is the second 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

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*practical
exploration
based on MATLAB
programs. This
second book
focuses on
recent
developments in
response to the
demands of new
digital
technologies. It
is divided into
two parts: the*

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first part includes four chapters on the decomposition and recovery of signals, with special emphasis on images. In turn, the second part includes three chapters and addresses important data-based actions,

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*such as adaptive
filtering,
experimental
modeling, and
classification.*

*DIGITAL SIGNAL
PROCESSING,
DIGITAL IMAGE
PROCESSING,
DIGITAL SIGNAL
PROCESSOR AND
DIGITAL
COMMUNICATION
Essential of*

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*Digital Signal
Processing Using
MATLAB*

*Digital Signal
Processing Using
MATLAB: A*

*Problem Solving
Companion*

*Programs for
Digital Signal
Processing*

*Digital Signal
and Image*

Processing using

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MATLAB, Volume 1
This is the first
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

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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 is divided

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into three parts, the first of which introduces readers to periodic and non-periodic signals. The second part is devoted to filtering, which is an important and commonly used application. The third part addresses more advanced topics, including the analysis of real-world non-

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*stationary signals
and data, e.g.
structural fatigue,
earthquakes, electro-
encephalograms,
birdsong, etc. The
book's last chapter
focuses on
modulation, an
example of the
intentional use of non-
stationary signals.
This textbook
provides engineering*

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*students with
instruction on
processing signals
encountered in
speech, music, and
wireless
communications
using software or
hardware by
employing basic
mathematical
methods. The book
starts with an
overview of signal*

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processing, introducing readers to the field. It goes on to give instruction in converting continuous time signals into digital signals and discusses various methods to process the digital signals, such as filtering. The author uses MATLAB throughout as a user-

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friendly software tool to perform various digital signal processing algorithms and to simulate real-time systems. Readers learn how to convert analog signals into digital signals; how to process these signals using software or hardware; and how to write algorithms to

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perform useful operations on the acquired signals such as filtering, detecting digitally modulated signals, correcting channel distortions, etc. Students are also shown how to convert MATLAB codes into firmware codes. Further, students will be able to apply the basic

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*digital signal
processing
techniques in their
workplace. The book
is based on the
author's popular
online course at
University of
California, San Diego.
The Algorithms such
as SVD, Eigen
decomposition,
Gaussian Mixture
Model, HMM etc. are*

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presently scattered in different fields. There remains a need to collect all such algorithms for quick reference. Also there is the need to view such algorithms in application point of view. This book attempts to satisfy the above requirement. The algorithms are made

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*clear using MATLAB
programs.*

*Quickly Engages in
Applying Algorithmic
Techniques to Solve
Practical Signal
Processing Problems
With its active, hands-
on learning approach,
this text enables
readers to master the
underlying principles
of digital signal
processing and its*

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many applications in industries such as digital television, mobile and broadband communications, and medical/scientific devices. Carefully developed MATLAB® examples throughout the text illustrate the mathematical concepts and use of digital signal

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processing algorithms. Readers will develop a deeper understanding of how to apply the algorithms by manipulating the codes in the examples to see their effect. Moreover, plenty of exercises help to put knowledge into practice solving real-

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*world signal
processing
challenges. Following
an introductory
chapter, the text
explores: Sampled
signals and digital
processing Random
signals Representing
signals and systems
Temporal and spatial
signal processing
Frequency analysis of
signals Discrete-time*

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filters and recursive filters Each chapter begins with chapter objectives and an introduction. A summary at the end of each chapter ensures that one has mastered all the key concepts and techniques before progressing in the text. Lastly, appendices listing

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selected web resources, research papers, and related textbooks enable the investigation of individual topics in greater depth. Upon completion of this text, readers will understand how to apply key algorithmic techniques to address practical signal processing

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problems as well as develop their own signal processing algorithms.

Moreover, the text provides a solid foundation for evaluating and applying new digital processing signal techniques as they are developed.

*Signals and Data,
Filtering, Non-*

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*stationary Signals,
Modulation*

*Digital Signal
Processing with
Matlab Examples,
Volume 3*

*Fundamentals and
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*Introduction to Digital
Signal Processing
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*Advances and
Applications, The
Stochastic Case*

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enables electrical
engineers and
technicians in the
fields of
biomedical,
computer, and
electronics
engineering to
master the
essential**

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**fundamentals of
DSP principles
and practice.**

**Many instructive
worked examples
are used to
illustrate the
material, and the
use of
mathematics is
minimized for
easier grasp of
concepts. As**

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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

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**of algorithms in
hardware and
software.**

**Additional topics
covered include
adaptive filtering
with noise
reduction and
echo
cancellations,
speech
compression,
signal sampling,**

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**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,**

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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-

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**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**

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**signals, electroca
rdiography data,
and vibration
signals All real-
time C programs
revised for the
TMS320C6713
DSK Covers DSP
principles with
emphasis on
communications
and control
applications**

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Chapter objectives, worked examples, and end-of-chapter exercises aid the reader in grasping key concepts and solving related problems

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**programs for
simulation and C
programs for real-
time DSP**

**This book is
Volume I of the
series DSP for
MATLAB and
LabVIEW . The
entire series
consists of four
volumes that
collectively cover**

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**basic digital
signal processing
in a practical and
accessible
manner, but
which
nonetheless
include all
essential
foundation
mathematics. As
the series title
implies, the**

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scripts (of which there are more than 200) described in the text and supplied in code form (available at www.morganclaypool.com/page/isen) will run on both MATLAB and LabVIEW. Volume I consists of four

chapters. The first chapter gives a brief overview of the field of digital signal processing. This is followed by a chapter detailing many useful signals and concepts, including

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**convolution,
recursion,
difference
equations, LTI
systems, etc. The
third chapter
covers
conversion from
the continuous to
discrete domain
and back (i.e.,
analog-to-digital
and digital-to-**

**analog
conversion),
aliasing, the
Nyquist rate,
normalized
frequency,
conversion from
one sample rate
to another,
waveform
generation at
various sample
rates from stored**

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**wave data, and
Mu-law
compression. The
fourth and final
chapter of the
present volume
introduces the
reader to many
important
principles of
signal
processing,
including**

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**correlation, the
correlation
sequence, the
Real DFT,
correlation by
convolution,
matched filtering,
simple FIR filters,
and simple IIR
filters. Chapter 4,
in particular,
provides an
intuitive or "first**

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**principle"
understanding of
how digital
filtering and
frequency
transforms work,
preparing the
reader for
Volumes II and
III, which provide,
respectively,
detailed coverage
of discrete**

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**frequency
transforms
(including the
Discrete Time
Fourier
Transform, the
Discrete Fourier
Transform, and
the z-Transform)
and digital filter
design (FIR
design using
Windowing,**

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**Frequency
Sampling, and
Optimum
Equiripple
techniques, and
Classical IIR
design). Volume
IV, the
culmination of
the series, is an
introductory
treatment of LMS
Adaptive Filtering**

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**and applications.
The text for all
volumes contains
many examples,
and many useful
computational
scripts,
augmented by
demonstration
scripts and
LabVIEW Virtual
Instruments (VIs)
that can be run**

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**to illustrate
various signal
processing
concepts
graphically on
the user's
computer screen.**

**Table of
Contents: An
Overview of DSP /
Discrete Signals
and Concepts /
Sampling and**

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**Binary
Representation /
Transform and
Filtering
Principles"**

**This supplement
to any standard
DSP text is one of
the first books to
successfully
integrate the use
of MATLAB in the
study of DSP**

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concepts. In this book, MATLAB is used as a computing tool to explore traditional DSP topics, and solve problems to gain insight. This greatly expands the range and complexity of problems that

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**students can
effectively study
in the course.**

**Since DSP
applications are
primarily
algorithms
implemented on
a DSP processor
or software, a
fair amount of
programming is
required. Using**

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interactive software such as MATLAB makes it possible to place more emphasis on learning new and difficult concepts than on programming algorithms. Interesting practical examples are

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**discussed and
useful problems
are explored.
This updated
second edition
includes new
homework
problems and
revises the
scripts in the
book, available
functions, and m-
files to MATLAB**

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Briefly describes
the physical
characteristics,**

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**the habitat, and
the behavior of
the Alaskan
brown bear.**

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Digital Signal
Processing Using
MATLAB**

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THROUGH
MATLAB®**

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to Computer**

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Processing Using
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Application to
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