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*Digital
Signal
Processing
Ifeachor
Solution
Manual*

Digital signal
processing lies
at the heart of
the

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Manual

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

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Processing
analysis,
supported by

MatLab examples
and other
modelling
techniques. The
authors explain
clearly and
concisely why
and how to use
digital signal
processing
systems; how to
approximate a

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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

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practical
applications;

and 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

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useful reference
for engineers

working on the
development of
signal
processing
systems.

A key technology
enabling fast-
paced embedded
media processing
developments is
the high-
performance, low-

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power, small-footprint convergent processor, a specialized device that combines the real-time control of a traditional microcontroller with the signal processing power of a DSP. This

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practical guide
is your one-stop
shop for
understanding
how to implement
this cutting-
edge technology.
You will learn
how to: Choose
the proper
processor for an
application.
Architect your
system to avoid

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problems at the outset. Manage your data flows and memory accesses so that they line up properly. Make smart-trade-offs in portable applications between power considerations and computational

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performance.

Divide

processing tasks

across multiple

cores. Program

frameworks that

optimize

performance

without

needlessly

increasing

programming

model

complexity.

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Implement
benchmarking

techniques that

will help you

adapt a

framework to

best fit a

target

application, and

much more!

Covering the

entire spectrum

of EMP-related

design issues,

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from easy-to-understand explanations of basic architecture and direct memory access (DMA), to in-depth discussions of code optimization and power management, this practical book

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will be an
invaluable aid

to every
engineer working
with EMP, from
the beginner to
the seasoned
expert.

Comprehensive
subject coverage
with emphasis on
practical
application
Essential

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assembly
language code
included

throughout text
Many real-world
examples using
Analog's popular
Blackfin
Processor
architecture
All the design
and development
inspiration and
direction an

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If each Solution

digital engineer
needs in one
blockbuster
book! Kenton
Williston,
author,
columnist, and
editor of DSP
DesignLine has
selected the
very best
digital signal
processing
design material

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from the Newnes
portfolio and
has compiled it
into this

volume. The
result is a book
covering the
gamut of DSP
design'from
design
fundamentals to
optimized
multimedia
techniques'with

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a strong pragmatic emphasis. In addition to specific design techniques and practices, this book also discusses various approaches to solving DSP design problems and how to

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successfully
apply theory to
actual design
tasks. The
material has
been selected
for its
timelessness as
well as for its
relevance to
contemporary
embedded design
issues.

CONTENTS:

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Processing
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Chapter 1 ADCs,
DACs, and

Sampling Theory

Chapter 2

Digital Filters

Chapter 3

Frequency Domain

Processing

Chapter 4 Audio

Coding Chapter 5

Video Processing

Chapter 6

Modulation

Chapter 7 DSP

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Hardware Options
Chapter 8 DSP
Processors and
Fixed-Point
Arithmetic
Chapter 9 Code
Optimization and
Resource
Partitioning
Chapter 10
Testing and
Debugging DSP
Systems *Hand-
picked content

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selected by
Kenton

Williston,

Editor of DSP

DesignLine

*Proven best
design practices

for image,

audio, and video

processing *Case

histories and

design examples

get you off and

running on your

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current project
Instructor Solution
of Signal
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Systems

discusses a
spectrum of
architectures
and methods for
effective
implementation
of algorithms in
hardware (HW).
Encompassing all

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facets of the
subject this
book includes
conversion of
algorithms from
floating-point
to fixed-point
format, parallel
architectures
for basic
computational
blocks, Verilog
Hardware
Description

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Language (HDL),
SystemVerilog

and coding
guidelines for
synthesis. The
book also covers
system level
design of Multi
Processor System
on Chip (MPSoC);
a consideration
of different
design
methodologies

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including

Network on Chip

(NoC) and Kahn

Process Network

(KPN) based

connectivity

among processing

elements. A

special emphasis

is placed on

implementing

streaming

applications

like a digital

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communication
system in HW.

Several novel
architectures
for implementing
commonly used
algorithms in
signal
processing are
also revealed.

With a
comprehensive
coverage of
topics the book

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provides an appropriate mix of examples to illustrate the design methodology. Key Features: A practical guide to designing efficient digital systems, covering the complete spectrum of

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digital design
from a digital
signal
processing
perspective
Provides a full
account of HW
building blocks
and their
architectures,
while also
elaborating
effective use of
embedded

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computational
resources such
as multipliers,
adders and
memories in
FPGAs Covers a
system level
architecture
using NoC and
KPN for
streaming
applications,
giving examples
of structuring

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MATLAB code and
its easy mapping
in HW for these
applications

Explains state
machine based
and Micro-
Program
architectures
with

comprehensive
case studies for
mapping complex
applications The

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techniques and examples discussed in this book are used in the award winning products from the Center for Advanced Research in Engineering (CARE). Software Defined Radio, 10 Gigabit VoIP

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monitoring
system and
Digital
Surveillance
equipment has
respectively won
APICTA (Asia
Pacific
Information and
Communication
Alliance) awards
in 2010 for
their unique and
effective

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designs.

Nonlinear Wave

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Multimedia:
Quality of
Service and
Solutions
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*A practical and
accessible guide
to understanding
digital signal*

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processing
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*Introduction to
Digital Signal
Processing and
Filter Design was
developed and fine-
tuned from the
author's twenty-
five years of
experience
teaching classes in
digital signal*

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processing.

*Following a step-
by-step approach,
students and
professionals
quickly master the
fundamental
concepts and
applications of
discrete-time
signals and
systems as well as*

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*the synthesis of these systems to meet specifications in the time and frequency domains. Striking the right balance between mathematical derivations and theory, the book features: * Discrete-*

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*time signals and
systems * Linear
difference*

*equations **

*Solutions by
recursive*

*algorithms **

*Convolution * Time
and frequency*

*domain analysis **

*Discrete Fourier
series * Design of*

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*FIR and IIR filters *
Practical methods
for hardware
implementation A
unique feature of
this book is a
complete chapter
on the use of a
MATLAB(r) tool,
known as the FDA
(Filter Design and
Analysis) tool, to*

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investigate the effect of finite word length and different formats of quantization, different realization structures, and different methods for filter design. This chapter contains material of practical

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importance that is not found in many books used in academic courses. It introduces students in digital signal processing to what they need to know to design digital systems using DSP chips currently available

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*from industry. With
its unique,*

*classroom-tested
approach,*

*Introduction to
Digital Signal*

Processing and

*Filter Design is the
ideal text for*

students in

electrical and

electronic

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*engineering,
computer science,
and applied
mathematics, and
an accessible
introduction or
refresher for
engineers and
scientists in the
field.*

*Advances in
Computer and*

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*Sciences and
Engineering*

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rigorously
reviewed world-
class manuscripts
addressing and
detailing state-of-
the-art research
projects in the
areas of Computer*

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*Science, Software
Engineering,*

Computer

*Engineering, and
Systems*

*Engineering and
Sciences.*

*Advances in
Computer and*

Information

Sciences and

Engineering

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papers from the
conference*

*proceedings of the
International*

Conference on

Systems,

Computing

Sciences and

Software

Engineering

(SCSS 2007)

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*which was part of
the International
Joint Conferences
on Computer,
Information and
Systems Sciences
and Engineering
(CISSE 2007).*

*The book provides
a comprehensive
exposition of all
major topics in*

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*digital signal
processing (DSP).*

*With numerous
illustrative
examples for easy
understanding of
the topics, it also
includes MATLAB-
based examples
with codes in order
to encourage the
readers to become*

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*more confident of
the fundamentals
and to gain
insights into DSP.
Further, it presents
real-world signal
processing design
problems using
MATLAB and
programmable
DSP processors.
In addition to*

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*problems that
require analytical
solutions, it
discusses
problems that
require solutions
using MATLAB at
the end of each
chapter. Divided
into 13 chapters, it
addresses many
emerging topics,*

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which are not typically found in advanced texts on DSP. It includes a chapter on adaptive digital filters used in the signal processing problems for faster acceptable results in the presence of changing

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environments and
changing system
requirements.

Moreover, it offers
an overview of
wavelets, enabling
readers to easily
understand the
basics and
applications of this
powerful
mathematical tool

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*for signal and
image processing.*

*The final chapter
explores DSP
processors, which
is an area of
growing interest for
researchers. A
valuable resource
for undergraduate
and graduate
students, it can*

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*also be used for
self-study by
researchers,
practicing
engineers and
scientists in
electronics,
communications,
and computer
engineering as
well as for
teaching one- to*

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*two-semester
courses.*

*The Kuala Lumpur
International
Conference on
Biomedical
Engineering
(BioMed 2006)
was held in
December 2006 at
the Palace of the
Golden Horses,*

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*Kuala Lumpur,
Malaysia. The
papers presented
at BioMed 2006,
and published
here, cover such
topics as Artificial
Intelligence,
Biological effects
of non-ionising
electromagnetic
fields,*

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*Biomaterials,
Biomechanics,
Biomedical
Sensors,
Biomedical Signal
Analysis,
Biotechnology,
Clinical
Engineering,
Human
performance
engineering,*

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*Imaging, Medical
Informatics,
Medical
Instruments and
Devices, and many
more.*

*Theory, Analysis,
Design,
Simulation,
Testing, and
Applications
Digital Filters*

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*Digital
Communications
with Emphasis on*

Data Modems

Foundations of

Digital Signal

Processing

The Best of ICCAD

In 2002, the

International

Conference on

Computer Aided

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**Design (ICCAD)
celebrates its
20th anniversary.**

**This book
commemorates
contributions
made by ICCAD
to the broad field
of design
automation
during that time.
The foundation**

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**of ICCAD in 1982
coincided with
the growth of
Large Scale
Integration. The
sharply
increased
functionality of
board-level
circuits led to a
major demand
for more**

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powerful
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**Electronic
Design**

**Automation
(EDA) tools. At
the same time,
LSI grew quickly
and advanced
circuit
integration
became widely
available. This,**

**in turn, required
new tools, using
sophisticated
modeling,
analysis and
optimization
algorithms in
order to manage
the evermore
complex design
processes. Not
surprisingly,**

during the same period, a number of start-up companies began to commercialize EDA solutions, complementing various existing in-house efforts. The overall increased interest in Design

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Automation (DA)

re quired a new

forum for the

emerging

community of

EDA

professionals;

one which would

be focused on

the publication of

high-quality

research results

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**and provide a
structure for the
exchange of
ideas on a broad
scale. Many of
the original
ICCAD
volunteers were
also members of
CANDE
(Computer-Aided
Network Design),**

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**a workshop of
the IEEE Circuits
and Sys tem
Society. In fact, it
was at a CANDE
workshop that
Bill McCalla
suggested the
creation of a
conference for
the EDA
professional. (Bill**

later developed
the name).

This book
presents recent
developments in
nonlinear
dynamics with an
emphasis on
complex
systems. The
volume
illustrates new

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**methods to
characterize the
solutions of
nonlinear
dynamics
associated with
complex
systems. This
book contains
the following
topics: new
solutions of the**

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functional
equations,
optimization
algorithm for
traveling
salesman
problem, fractals,
control, fractional
calculus models,
fractional
discretization,
local fractional

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**partial
differential
equations and
their
applications, and
solutions of
fractional kinetic
equations.**

**In this
supplementary
text, MATLAB is
used as a**

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Ifeachor Solution
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**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**

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in the course.

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

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**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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in Applying
Algorithmic
Techniques to
Solve Practical
Signal
Processing
Problems With
its active, hands-
on learning
approach, this**

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**text enables
readers to
master the
underlying
principles of
digital signal
processing and
its many
applications in
industries such
as digital
television, mobile**

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and broadband
communications,
and

medical/scientific
devices.

Carefully
developed
MATLAB®
examples
throughout the
text illustrate the
mathematical

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**concepts and
use of digital
signal**

**processing
algorithms.**

**Readers will
develop a deeper
understanding of
how to apply the
algorithms by
manipulating the
codes in the**

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examples to see
their effect.

Moreover, plenty
of exercises help
to put knowledge
into practice
solving real-
world signal
processing
challenges.
Following an
introductory

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**chapter, the text
explores:**

**Sampled signals
and digital
processing**

Random signals

**Representing
signals and
systems**

**Temporal and
spatial signal
processing**

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**Frequency
analysis of
signals Discrete-
time filters and
recursive filters
Each chapter
begins with
chapter
objectives and an
introduction. A
summary at the
end of each**

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**chapter ensures
that one has
mastered all the
key concepts and
techniques
before
progressing in
the text. Lastly,
appendices
listing selected
web resources,
research papers,**

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and related
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Manual
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

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**address practical
signal**

processing

problems as well

as develop their

own signal

processing

algorithms.

Moreover, the

text provides a

solid foundation

for evaluating

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and applying new
digital
processing

signal
techniques as
they are
developed.

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and Applications
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Engineering
Workbench)
developed by
National
Instruments is a
graphical
programming
environment. Its
ease of use allows
engineers and
students to

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**streamline the
creation of code
visually, leaving
time traditionally
spent on
debugging for true
comprehension of
DSP. This book is
perfect for
practicing
engineers, as well
as hardware and
software technical**

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managers who are familiar with DSP and are involved in system-level design. With this text, authors Kehtarnavaz and Kim have also provided a valuable resource for students in conventional engineering

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integrated lab
exercises create
an interactive
experience which
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development of
the hands-on skills
essential for
learning to
navigate the
LabVIEW program.
Digital Signal**

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System-Level
Design Using**

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comprehensive
tool that will
greatly accelerate
the DSP learning
process. Its
thorough
examination of
LabVIEW leaves
no question**

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unanswered.

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**LabVIEW is the
program that will
demystify DSP and
this is the book
that will show you
how to master it. ***

**A graphical
programming
approach
(LabVIEW) to DSP
system-level
design * DSP**

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**implementation of
appropriate
components of a
LabVIEW designed
system * Providing
system-level,
hands-on
experiments for
DSP lab or project
courses**

**"This book
highlights and
discusses the**

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**underlying QoS
issues that arise in
the delivery of real-
time multimedia
services over
wireless networks"**

**--Provided by
publisher.**

**Window functions—
otherwise known
as weighting
functions, tapering
functions, or**

apodization functions—are mathematical functions that are zero-valued outside the chosen interval. They are well established as a vital part of digital signal processing.

Window Functions and their

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**Applications in
Signal Processing
presents an
exhaustive and
detailed account of
window functions
and their
applications in
signal processing,
focusing on the
areas of digital
spectral analysis,
design of FIR**

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filters, pulse
compression
radar, and speech
signal processing.
Comprehensively
reviewing previous
research and
recent
developments, this
book: Provides
suggestions on
how to choose a
window function

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for particular
applications

Discusses Fourier
analysis

techniques and
pitfalls in the

computation of the
DFT Introduces

window functions
in the continuous-
time and discrete-
time domains

Considers two

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**implementation
strategies of
window functions
in the time- and
frequency domain
Explores well-
known
applications of
window functions
in the fields of
radar, sonar,
biomedical signal
analysis, audio**

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**processing, and
synthetic aperture
radar**

**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
concepts. In this
book, MATLAB® is**

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**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 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

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**more emphasis on
learning new and
difficult concepts
than on
programming
algorithms.**

**Interesting
practical examples
are discussed and
useful problems
are explored. This
updated second
edition includes**

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**new homework
problems and
revises the scripts
in the book,
available
functions, and m-
files to MATLAB®
V7.**

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Computer and
Information
Sciences and
Engineering**

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**Window Functions
and Their**

**Applications in
Signal Processing
6th Conference on
Non-integer Order
Calculus and Its
Applications, 2014
Opole, Poland**

**Designing
Software
Synthesizer Plug-
Ins in C++**

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techniques.

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Applications with
the TMS320C6713
and
TMS320C6416
DSK Now in a new
edition—the most
comprehensive,

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introduction to
digital signal
processing The
first edition of
Digital Signal
Processing and
Applications with
the TMS320C6713
and
TMS320C6416
DSK is widely

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accepted as the most extensive text available on the hands-on teaching of Digital Signal Processing (DSP). Now, it has been fully updated in this valuable Second Edition to be compatible with the latest version

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(CCS)

development
environment.

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comprehensive,
hands-on
approach that has
made it an

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edition also

features: Added
program examples
that illustrate DSP
concepts in real-
time and in the
laboratory

Expanded
coverage of
analog input and

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output New
material on frame-
based processing

A revised chapter
on IIR, which
includes a number
of floating-point
example programs
that explore IIR
filters more
comprehensively
More extensive

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coverage of
DSP/BIOS All
Manual
programs listed in
the text—plus
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available on a
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website No other
book provides
such an extensive
or comprehensive

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set of program
examples to aid
instructors in
teaching DSP in a
laboratory using
audio frequency
signals—making
this an ideal text
for DSP courses at
the senior
undergraduate and
postgraduate

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levels. It also serves as a valuable resource for researchers, DSP developers, business managers, and technology solution providers who are looking for an overview and examples of DSP

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algorithms
implemented using
the TMS320C6713
and
TMS320C6416
DSK.

This volume
presents selected
aspects of non-
integer, or
fractional order
systems, whose

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analysis, synthesis
and applications

have increasingly

become a real

challenge for

various research

communities,

ranging from

science to

engineering. The

spectrum of

applications of the

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fractional order
calculus has
incredibly
expanded, in fact it
would be hard to
find a science/engi
neering-related
subject area where
the fractional
calculus had not
been incorporated.
The content of the

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fractional calculus
is ranged from
pure mathematics
to engineering
implementations
and so is the
content of this
volume. The
volume is
subdivided into six
parts, reflecting
particular aspects

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of the fractional
order calculus. The
first part contains a
single invited
paper on a new
formulation of
fractional-order
descriptor
observers for
fractional-order
descriptor
continous LTI

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systems. The second part provides new elements to the mathematical theory of fractional-order systems. In the third part of this volume, a bunch of new results in approximation,

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modeling and
simulations of
fractional-order
systems is given.

The fourth part
presents new
solutions to some
problems in
controllability and
control of non-
integer order
systems, in

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particular fractional
Teacher Solution
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PID-like control.

The fifth part
analyzes the
stability of non-
integer order
systems and some
new results are
offered in this
important respect,
in particular for
discrete-time

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systems. The final, sixth part of this volume presents a spectrum of applications of the noninteger order calculus, ranging from bi-fractional filtering, in particular of electromyographic signals, through

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the thermal
diffusion and
advection diffusion
processes to the
SIEMENS platform
implementation.

This volume's
papers were all
subjected to
stimulating
comments and
discussions from

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the active
audience of the
RRNR'2014, the
6th Conference on
Non-integer Order
Calculus and Its
Applications that
was organized by
the Department of
Electrical, Control
and Computer
Engineering,

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Opole, Poland.

This book will
enable electrical
engineers and
technicians in the
fields of the
biomedical,
computer, and
electronics
engineering, to

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master the essential fundamentals of DSP principles and practice. Coverage includes DSP principles, applications, and hardware issues with an emphasis on applications. Many instructive

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worked examples
are used to

illustrate the
material and the
use of

mathematics is
minimized for
easier grasp of
concepts. In

addition to
introducing
commercial DSP

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hardware and
software, and
industry standards
that apply to DSP
concepts and
algorithms, topics
covered include
adaptive filtering
with noise
reduction and
echo
cancellations;

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speech
compression;
signal sampling,
digital filter
realizations; filter
design; multimedia
applications; over-
sampling, etc.

More advanced
topics are also
covered, such as
adaptive filters,

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speech
compression such
as PCM, u-law,
ADPCM, and multi-
rate DSP and over-
sampling ADC.

Covers DSP
principles and
hardware issues
with emphasis on
applications and
many worked

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examples End of
chapter problems
are helpful in

ensuring retention
and understanding
of what was just
read

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Approach
Mathematical
Methods in
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Digital Design of
Signal Processing
Systems

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of the ... National
Radio Science
Conference
Theory, Algorithms
and Hardware
Design

***Bridging the
gap from***

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programming,
Designing
Software
Synthesizer
Plug-Ins in
C++ For
RackAFX,
VST3 and
Audio Units
contains
complete code

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and
implementing
software
synthesizers
for both
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You will learn
synthesizer
operation,
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***the underlying
theory of each
synthesizer
component,
and moving on
to the theory
of how these
components
combine to
form fully
working
musical***

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***instruments
that function
on a variety of
target digital
audio
workstations
(DAWs).***

***Containing
some of the
latest
advances in
theory and***

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If eachor Solution
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***algorithm
development,
this book
contains
information
that has never
been
published in
textbook form,
including
several unique
algorithms of***

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***the author's
own design.***

***The book is
broken into
three parts:
plug-in
programming,
theory and
design of the
central
synthesizer
components of***

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envelope
generators,
and filters,
and the design
and implement
ation of six
complete
polyphonic
software
synthesizer
musical***

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***instruments,
which can be
played in real
time. The
instruments
implement
advanced
concepts
including a us
er-
programmable
modulation***

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final chapter
shows you the
theory and
code for a
suite of delay
effects to
augment your
synthesizers,
introducing
you to audio
effect***

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access to free
software to
guide you
through the
application of

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***concepts
discussed in
the book, and
code for both
Windows and
Mac platforms.
In addition to
the software,
it features
bonus
projects,
application***

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course on
digital signal
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seniors or first-
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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**

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***been removed.
The author has
taken great
care to
organize the
chapters more
logically by
reordering the
sections within
chapters.
More worked-
out examples***

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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

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***discrete-time
signals,
expanded***

***coverage of
discrete-time
Fourier
transform and
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Fourier
transform,
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algorithm for***

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***DFT
computation,
sliding DFT,
zoom FFT,
chirp Fourier
transform,
expanded
coverage of z-
transform,
group delay
equalization of
IIR digital***

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of computatio
nally efficient
FIR digital
filters, semi-
symbolic
analysis of
digital filter
structures,
spline
interpolation,
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discrete
wavelet
transform.***

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***As in many
other fields,
biomedical***

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*engineers
benefit from
the use of
computational
intelligence
(CI) tools to
solve complex
and non-linear
problems. The
benefits could
be even
greater if*

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***there were
scientific
literature that
specifically
focused on the
biomedical
applications of
computational
intelligence
techniques.
The first
comprehensive***

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*field-specific
reference,
Computational
Intelligence in
Biomedical
Engineering
provides a
unique look at
how
techniques in
CI can offer
solutions in*

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***modelling,
relationship
pattern
recognition,
clustering, and
other
problems
particular to
the field. The
authors begin
with an
overview of***

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processing and
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learning
approaches
and continue
on to
introduce
specific
applications,
which
illustrate CI's***

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review of
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***processing
techniques
commonly
employed in***

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***the analysis of
biomedical
signals and in***

***the
improvement
of signal to
noise ratio.***

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CI techniques
for post
processing***

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of***

***cardiovascular
disease and as
well as various
studies with a
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focus on CI's
potential as a
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diagnostics. In***

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research,
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Intelligence in
Biomedical
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introduces the
advantages of
parallel processing
and details how to
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of-chapter
exercises, and
case studies to put
theoretical
concepts into a
practical context.
Metrology is the
science of
measurements. As
such, it deals with
the problem of
obtaining

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knowledge of
physical reality
through its
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problems of
measurement and
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topic as whole

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DASP showing
their theoretical
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engineering to
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essential
fundamentals of
DSP principles and
practice. Many
instructive worked

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examples are used to illustrate the material, and the use of mathematics is minimized for easier grasp of concepts. As such, this title is also useful to undergraduates in electrical

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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.

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Additional topics
covered include
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adaptive filtering
with noise

reduction and
echo

cancellations,
speech

compression,
signal sampling,

digital filter

realizations, filter

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More advanced topics are also covered, such as adaptive filters, speech compression such as PCM, u-law, ADPCM, and multi-rate DSP and over-

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become popular in
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chapters, including
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signals, electrocar
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key concepts and

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*This book constitutes
the thoroughly
refereed post-
proceedings of the 8th
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Symposium on*

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Retrieval, CMMR
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Frontiers of Research
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FRSM 2011. This
year the 2
conferences merged
for the first time and
were held in*

*Bhubanes, India, in
March 2011. The 17
revised full papers
presented were
specially reviewed
and revised for
inclusion in this
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which reflect the high
quality of the sessions
of CMMR 2011, the*

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discusses the design,
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performance
verification of
waveforms and
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demodulation in*

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approach, the author

provides an

introductory to the

advanced

understanding of

acquisition and data

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*detection using
source and
executable simulation
code to validate the
communication
system performance
with respect to theory
and design
specifications. The
author focuses on
theoretical analysis,
algorithm design,
firmware and*

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*software designs and
subsystem and system
testing. This book*

*treats system designs
with a variety of
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very low to optical
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*book offers system
analysis and
subsystem*

implementation

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*options for
acquisition and data
detection appropriate
to the channel
conditions and system
specifications, and
provides test methods
for demonstrating
system performance.*

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*Outlines fundamental
system requirements
and related analysis*

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*that must be
established prior to a
detailed subsystem
design Includes many
examples that
highlight various
analytical solutions
and case studies that
characterize various
system performance
measures Discusses
various aspects of
atmospheric*

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spherical 4/3 effective
earth radius model*

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*propagation and uses
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channel to evaluate
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*using several robust
waveform*

*modulations Contains
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the reader to further
engage with the text*

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Communications with
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Modems is a great
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digital signal
processing engineers
and students looking
for in-depth theory as*

*well as practical
implementations.*

*This book clearly
explains digital signal
processing principles
and shows how they
can be used to build
DSP systems. The
aim is to give enough
insight and practical
guidance to enable an
engineer to construct
DSP systems. The*

book's programs are written in C, the language used in DSP.

The new technology advances provide that a great number of system signals can be easily measured with a low cost. The main problem is that usually only a fraction of the signal

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Digital filters are the most versatile, practical and effective methods for extracting the information

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*necessary from the
signal. They can be
dynamic, so they can
be automatically or
manually adjusted to
the external and
internal conditions.
Presented in this book
are the most
advanced digital
filters including
different case studies
and the most relevant*

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level. As with all
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retains the
unique formula
of minimal
mathematics
and
straightforward
explanations.
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included
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their course.***

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with worked
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self-assessment
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***This book covers
the basic
theoretical,
algorithmic and
real-time
aspects of
digital signal
processing
(DSP). Detailed
information is
provided on off-
line, real-time***

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***and DSP
programming
and the reader
is effortlessly
guided through
advanced topics
such as DSP
hardware
design, FIR and
IIR filter design
and difference
equation***

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field of wave
processes in
solids, fluids,
and structures.**

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nonlinear wave***

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well as various
discrete and
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dynamic models
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