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balance between theory and practice, keeps math at a tolerable level, and makes DSP exceptionally accessible to beginners without ever oversimplifying it. Readers can thoroughly grasp the basics and quickly move on to more

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sophisticated techniques. This edition adds extensive new coverage of FIR and IIR filter analysis techniques, digital differentiators, integrators, and matched filters. Lyons has significantly updated and expanded his discussions of multirate processing

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techniques, which are crucial to modern wireless and satellite communications. He also presents nearly twice as many DSP Tricks as in the second edition—including techniques even seasoned DSP professionals may have overlooked. Coverage includes

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discrete

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differentiators,
integrators, and
matched filters Clear
descriptions of
statistical measures of
signals, variance
reduction by
averaging, and real-
world signal-to-noise
ratio (SNR)
computation A
significantly expanded
chapter on sample rate

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conversion (multirate systems) and associated filtering techniques New guidance on implementing fast convolution, IIR filter scaling, and more Enhanced coverage of analyzing digital filter behavior and performance for diverse

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communications and
biomedical
applications Discrete
sequences/systems,
periodic sampling,
DFT, FFT,
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response filters,
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Hilbert transforms,
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formats, and much

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Computer

science—especially
pattern recognition,
signal processing and
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important information
about archaeological
finds, information that
is otherwise
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human senses and

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robust, exact, and
reliable performance
and results.

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historians will discover
reliable automated
methods for quickly
reconstructing
archaeological
materials and benefit
from the application
of non-destructive,

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automated processing
of archaeological
finds.

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

Statistical Signal
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Practical MATLAB
Basics for Engineers
Design of Very High-
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Switched-Capacitor
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Multirate Signal
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Processing. The
book can be used

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processing. In the second half of the book, the student is asked to write the necessary MATLAB programs to carry out the projects.

New design architectures in computer systems have surpassed industry expectations. Limits,

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which were once thought of as fundamental, have now been broken. Digital Systems and Applications details these innovations in systems design as well as cutting-edge applications that are emerging to take advantage of the fields increasingly

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sophisticated capabilities. This book features new chapters on parallelizing iterative heuristics, stream and wireless processors, and lightweight embedded systems. This fundamental text— Provides a clear focus on

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computer systems,
architecture, and
applications Takes a
top-level view of
system organization
before moving on to
architectural and
organizational
concepts such as
superscalar and
vector processor,
VLIW architecture,
as well as new

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trends in
multithreading and
multiprocessing.
includes an entire
section dedicated to
embedded systems
and their
applications
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such as digital signal
processing
applications, circuit
implementation

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aspects, parallel I/O
algorithms, and
operating systems
Concludes with a
look at new and
future directions in
computing Features
articles that describe
diverse aspects of
computer usage and
potentials for use
Details
implementation and

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performance-
enhancing
techniques such as
branch prediction,
register renaming,
and virtual memory
Includes a section on
new directions in
computing and their
penetration into
many new fields and
aspects of our daily
lives

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

Multirate Signal processing can improve system

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performance and reduce costs in applications ranging from laboratory instruments, cable modems, wireless systems, satellites, Radar, Sonar, and consumer entertainment products. This second edition continues to offer a

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systematic, clear,
and intuitive
introduction to
multirate signal
processing for
working engineers
and system
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Significant new
material and fresh
concepts, including
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techniques have been introduced. The author uses extensive examples and figures to illustrate a wide range of multirate techniques, from basic resampling to leading-edge cascade and multi-stage filter structures. Along the

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way he draws on extensive research and consulting experience to introduce processing “tricks” shown to maximize performance and efficiency. Coverage includes:

- Effect of sampling and resampling in time and frequency

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domains•

Relationships

between FIR filter
specifications and
filter length (# of

taps)• Window

design and equal-
ripple (Remez)

design techniques•

Square-Root Nyquist
and Half-band Filters

including new

enhancements•

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Polyphase FIR
filters: up-sampling,
down-sampling•
Polyphase M-path
analysis and
synthesis
channelizers and
cascade pairs•
Polyphase
interpolators for
arbitrary sample rate
changes• Dyadic
half-band filters,

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quadrature mirror
filters • Channel
banks for multiple
arbitrary bandwidths
and center
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filters and
channelizers, non-
uniform and uniform
phase, mixed

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recursive and non-
recursive•

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Processing

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Window Functions
and Their

Applications in

Signal Processing

Signal

processing is

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*a broad and
timeless area.
The term
"signal"
includes
audio, video,
speech, image,
communication,
geophysical,
sonar, radar,
medical, and
more. Signal*

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processing

*applies to the
theory and
application of
filtering,
coding,
transmitting,
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detecting,
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recognizing,
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anything from
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*implemented
using the
LabVIEW
environment,
belonging to
several
distinct
fields such as
engineering,
fault
diagnosis,
medicine,*

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*remote access
laboratory,
internet commu
nications,
chemistry,
physics, etc.
The virtual
instruments
designed and
implemented in
LabVIEW
provide the*

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*advantages of
being more
intuitive, of
reducing the
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time and of
being
portable. The
audience for
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includes PhD
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engineers and
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who are
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new tools
developed
using LabVIEW.
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present
interesting*

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*ideas and very
detailed
solutions
which offer
the immediate
possibility of
making fast
innovations
and of
generating
better
products for*

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made by all
the scientists
who
contributed to
editing this
book was
significant
and as a
result new and
viable*

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applications

were

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in digital

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be used in a

variety of

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courses. It includes details about deterministic signal processing, algorithms for convolution and DFT, multirate DSP, digital filter banks,

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*wavelets and m
ultiresolution
analysis.*

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*Distributed
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This book introduces readers to various signal processing models that have been used in analyzing periodic data, and discusses the statistical and computational

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techniques play an important role in their analysis. Statistics is also used in the formulation of appropriate models to describe the behavior of systems, the development of appropriate techniques for estimation of model parameters and the assessment of the

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This textbook provides engineering 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

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overview of signal 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.

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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.

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processing techniques in their workplace. The book is based on the author's popular online course at University of California, San Diego. This book presents recent advances in DSP to simplify, or increase the computational speed of, common signal

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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 traditional highly-specialized, math-intensive, research subjects

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the corresponding
CMOS
implementation
of the novel
multirate
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technique which
has its great
potential on very
high-frequency
analog front-end

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filtering due to its inherent dual advantage of reducing the speed of data-converters and DSP core together with the specification relaxation of the post continuous-time filtering. This technique

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completely
eliminates the
traditional
phenomenon of
sampled-and-hold
frequency-
shaping at the
lower input
sampling rate.
Also, in order to
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imperfections at
very high

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frequency, the state-of-the-art circuit design and layout techniques for high-speed Switched-Capacitor (SC) circuits are comprehensively discussed:

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mismatch -Time-
interleaved effect
with respect to
timing-skew and
random jitter with
non-uniformly
holding -Stage
noise analysis
and allocation
scheme
-Substrate and
supply noise
reduction -Gain-

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and offset-
compensation
techniques -High-
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design and layout
-Very low timing-
skew multiphase
generation Two
tailor-made
optimum design
examples in
CMOS are

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presented. The first one achieves a 3-stage 8-fold SC interpolating filter with 5.5MHz bandwidth and 108MHz output sampling rate for a NTSC/PAL CCIR 601 digital video at 3 V. Another is a 15-tap 57MHz SC FIR bandpass

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interpolating filter
with 4-fold
sampling rate
increase to
320MHz and the
first-time
embedded
frequency band
up-translation for
DDFS system at
2.5V. The
corresponding
chip prototype

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achieves so far
the highest
operating
frequency,
highest filter
order and highest
center frequency
with highest
dynamic range
under the lowest
supply voltage
when compared
to the previously

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reported high-frequency SC filters in CMOS.

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methods for
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this book is a

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complete chapter
on the use of a
MATLAB(r) tool,
known as the FDA
(Filter Design and
Analysis) tool, to
investigate the
effect of finite
word length and
different formats
of quantization,
different
realization

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different methods
for filter design.

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contains material
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importance that
is not found in
many books used
in academic
courses. It
introduces
students in digital

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to what they need
to know to design
digital systems
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Window functions
—otherwise
known as
weighting
functions,
tapering
functions, or
apodization
functions—are
mathematical

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focusing on the
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design of FIR
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how to choose a
window function

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for particular
applications

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analysis

techniques and
pitfalls in the
computation of
the DFT

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

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strategies of
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applications of
window functions
in the fields of
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biomedical signal

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