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protocols related to
speech, audio,
multimedia, and
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technology
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audio, low-power/high
performance DSPs,
color image
processing, and chips
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theoretical concepts,
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provides
comprehensive
coverage of the basic
foundations of DSP
and includes the
following parts:
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comprehensive and
current
understanding of
signal detection and
estimation, including
problems and
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chapter. Signal
detection plays an
important role in
fields such as radar,
sonar, digital
communications,
image processing,

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and failure detection.

The book explores

both Gaussian

detection and

detection of Markov

chains, presenting a

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coding and

modulation topics.

Addresses asymptotic

of tests with the

theory of large

deviations, and

robust detection. This

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text is appropriate for students of Electrical Engineering in graduate courses in Signal Detection and Estimation.

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Whilst the Manual
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Split into two parts,
covering
deterministic signals

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Detection of
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Noise serves as
an introduction
to the
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applications of
the statistical
theory of
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signals, their
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testing for the
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signals and the
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detection of signals in noise. Problem exercises, references, and a supplementary bibliography are included after each chapter.

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signal
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An essential
task in radar
systems is to
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Nowadays, many
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In this
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used as a
computing tool to
explore traditional
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solve problems to

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random objects,
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followed by a
wide variety of
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most popular
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and systems for
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Cooperative and
Graph Signal
Processing
This volume
contains a
comprehensive
examination of the
crucial first ten
years of the Arab

League and of the continuing dilemma it faces in juggling opposing local and regional interests.

Intuitive Probability and Random Processes using MATLAB® is an introduction to probability and

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random processes
that merges theory
with practice.

Based on the
author ' s belief that
only "hands-on"
experience with
the material can
promote intuitive
understanding, the
approach is to
motivate the need

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for theory using
MATLAB
examples, followed
by theory and
analysis, and
finally descriptions
of "real-world"
examples to
acquaint the
reader with a wide
variety of
applications. The

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latter is intended to answer the usual question "Why do we have to study this?" Other salient features are:

- *heavy reliance on computer simulation for illustration and student exercises
- *the incorporation

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Processing
of MATLAB
programs and
code segments
Detection Theory
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*discussion of
discrete random
variables followed
by continuous
random variables
to minimize
confusion
*summary sections
at the beginning of

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Processing
Detection Theory
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each chapter *in-
line equation
explanations
*warnings on
common errors
and pitfalls *over
750 problems
designed to help
the reader
assimilate and
extend the
concepts Intuitive

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Probability and
Random
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Processes using
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MATLAB® is

intended for
undergraduate and
first-year graduate
students in
engineering. The
practicing engineer
as well as others
having the

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appropriate
mathematical
background will
also benefit from
this book. About
the Author Steven
M. Kay is a
Professor of
Electrical
Engineering at the
University of
Rhode Island and

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a leading expert in
signal processing.
He has received
the Education
Award "for
outstanding
contributions in
education and in
writing scholarly
books and texts..."
from the IEEE
Signal Processing

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society and has
been listed as
among the 250
most cited
researchers in the
world in
engineering.
With signal
combining and
detection methods
now representing
a key application

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of signal processing in communication systems, this book provides a range of key techniques for receiver design when multiple received signals are available. Various optimal and suboptimal

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signal combining
and detection
techniques are
explained in the
context of multiple-
input multiple-
output (MIMO)
systems, including
successive
interference
cancellation (SIC)
based detection

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and lattice reduction (LR) aided detection. The techniques are then analyzed using performance analysis tools. The fundamentals of statistical signal processing are also covered, with two chapters

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dedicated to
important
background
material. With a
carefully balanced
blend of theoretical
elements and
applications, this
book is ideal for
both graduate
students and
practising

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Higher-Order
Statistical Signal
Processing brings
together some
of the most recent
innovations in the
field of higher-
order statistical
signal processing.

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It is structured to provide a comprehensive understanding of the fundamentals of the discipline, as well as a treatment of recent advances.

Concepts and
Techniques
Batch Processing

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Statistical Signal
Algorithms,
Processing
Performance and
Detection Theory
Applications
Solution Manual
Digital Signal
Processing
Fundamentals
Optimal Combining
and Detection
Mathematical
Foundations for
Signal Processing,
Communications,

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Fundamentals Of
Statistical Signal
and Networking
Processing

*This is the first
book to introduce
and integrate
advanced digital
signal processing
(DSP) and
classification
together, and the
only volume to
introduce state-of-
the-art transforms*

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*including DFT,
FFT, DCT, DHT,
PCT, CDT, and
ODT together for
DSP and
communication
applications. You
get step-by-step
guidance in
discrete-time
domain signal
processing and*

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frequency domain
Processing
signal analysis;
Detection Theory
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digital filter design
and adaptive
filtering; multirate
digital processing;
and statistical
signal
classification. It
also helps you
overcome
problems

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*associated with
multirate A/D and
D/A converters.
Keeping pace with
the expanding,
ever more complex
applications of
DSP, this
authoritative
presentation of
computational
algorithms for*

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statistical signal processing focuses on advanced topics ignored by other books on the subject. Algorithms for Convolution and DFT. Linear Prediction and Optimum Linear Filters. Least-

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*Squares Methods
for System
Detection Theory
Modeling and Filter
Design. Adaptive
Filters. Recursive
Least-Squares
Algorithms for
Array Signal
Processing. QRD-
Based Fast
Adaptive Filter
Algorithms. Power*

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Processing
Estimation. Signal
Detection Theory
Analysis with
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Spectra. For
Electrical
Engineers,
Computer
Engineers,
Computer
Scientists, and
Applied

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Mathematicians.

The purpose of this book is to introduce the reader to the basic theory of signal detection and estimation. It is assumed that the reader has a working knowledge of applied probabil

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ity and random processes such as that taught in a typical first-semester graduate engineering course on these subjects. This material is covered, for example, in the book by Wong

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(1983) in this series. More advanced concepts in these areas are introduced where needed, primarily in Chapters VI and VII, where continuous-time problems are treated. This book

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*is adapted from a
one-semester,
second-tier
graduate course
taught at the
University of
Illinois. However,
this material can
also be used for a
shorter or first-tier
course by
restricting*

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*coverage to
Chapters I through
V, which for the
most part can be
read with a
background of only
the basics of
applied probability,
including random
vectors and
conditional
expectations.*

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Sufficient background for the latter option is given for example in the book by Thomas (1986), also in this series. Quickly Engages in Applying Algorithmic Techniques to Solve Practical

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Processing

Problems With its

Detection Theory

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*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 many
applications in
industries such as*

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Processing
Detection Theory
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*digital television,
mobile and
broadband
communications,
and*

*medical/scientific
devices. Carefully
developed
MATLAB®
examples
throughout the text
illustrate the*

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*mathematical
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
chapter, the text*

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processing

Random signals

Representing

signals and

systems Temporal

and spatial signal

processing

Frequency

analysis of signals

Discrete-time

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filters and
Processing
recursive filters
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begins with
chapter objectives
and an
introduction. A
summary at the
end of each
chapter ensures
that one has
mastered all the

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key concepts and techniques before progressing in the text. Lastly, appendices listing selected web resources, research papers, and related textbooks enable the investigation of individual topics in

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*greater depth.
Upon completion
of this text,
readers will
understand how to
apply key
algorithmic
techniques to
address practical
signal processing
problems as well
as develop their*

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*own signal
processing
algorithms.*

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

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*Digital Signal
Processing Using
MATLAB
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Random
Processes, and
Statistical Analysis
Detection,
Estimation, and
Time Series
Analysis
Signal Processing*

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in Radar Systems
Detection,
Estimation, and
Modulation

Theory, Part I

*The absence of
training signals
from many kinds of
transmission
necessitates the
widespread use of
blind equalization*

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and system
Processing
identification. There
Detection Theory
have been many
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algorithms
developed for these
purposes, working
with one- or two-
dimensional signals
and with single-
input single-output
or multiple-input
multiple-output, real

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*or complex systems.
It is now time for a
unified treatment of
this subject,
pointing out the
common
characteristics of
these algorithms as
well as learning
from their different
perspectives. "Blind
Equalization and*

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System

Identification"
provides such a
unified treatment
presenting theory,
performance
analysis, simulation,
implementation and
applications. This is
a textbook for
graduate courses in
discrete-time

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*random processes,
statistical signal
processing, and
detection theory
blind equalization
and system
identification. It
contains material
which will also
interest researchers
and engineers
working in digital
communications,*

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source separation,
Processing
speech processing,
Detection Theory
and other, similar
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applications.

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volume on statistical
and adaptive signal
processing offers
you a unified,
comprehensive and
practical treatment
of spectral*

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Processing
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Detection Theory
filtering, and array
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with over 3,000
equations and more
than 300
illustrations, this
unique resource
provides you with
balanced coverage
of implementation*

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issues, applications,

and theory, making

it a smart choice for

professional

engineers and

students alike.

This comprehensive

and engaging

textbook introduces

the basic principles

and techniques of

signal processing,

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*from the
fundamental ideas
of signals and
systems theory to
real-world
applications.
Students are
introduced to the
powerful
foundations of
modern signal
processing,*

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*including the basic
geometry of Hilbert
space, the
mathematics of
Fourier transforms,
and essentials of
sampling,
interpolation,
approximation and
compression The
authors discuss real-
world issues and*

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*hurdles to using
these tools, and
ways of adapting
them to overcome
problems of
finiteness and
localization, the
limitations of
uncertainty, and
computational costs.
It includes over 160
homework problems*

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and over 220
worked examples,
specifically designed
to test and expand
students'
understanding of
the fundamentals of
signal processing,
and is accompanied
by extensive online
materials designed
to aid learning,

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including
Mathematica®
resources and
interactive

demonstrations.

This book embraces

the many

mathematical

procedures that

engineers and

statisticians use to

draw inference from

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*imperfect or
incomplete
measurements. This
book presents the
fundamental ideas
in statistical signal
processing along
four distinct lines:
mathematical and
statistical
preliminaries;
decision theory;*

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*estimation theory;
and time series
analysis.*

*Digital and
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Processing
Digital Signal
Processing
Higher-Order
Statistical Signal
Processing
Practical Algorithm*

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Volume III
Detection Theory
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Statistical Signal
Processing:
Detection theory

History in our day is still a story, and yet one from which we expect to tell the truth

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- not just the facts, the names and events of the past, but the invisible order and forces behind them. How can the language of history balance these

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seemingly
Processing
contrary tasks
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- the
Solution Manual
narrative, the
scientific,
and the
political?
This is the
question
Jacques
Ranciere
explores in

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"The names of history", a meditation on the poetics of historical knowledge. In the works of writers from Jules Michelet to Fernand Braudel, Ranciere

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traces an ongoing revolution in historical study, a movement that challenged, in the practice of language, the opposition of science and literature. By

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way of a
commentary on
Erich
Auerbach, he
shows how
fictional
narrative
intertwines
with
historical
narrative to
produce a

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"truth" that
retains
mythical
elements. The
poetics of
knowledge
Ranciere
develops here
is an attempt
to identify
the literary
procedures by

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which

historical

discourse

escapes

literature and

gives itself

the status of

a science. His

book is also

an

appreciation

of Braudel,

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whose work in
the Annales
school greatly
advanced this
project.

Ranciere
follows and
extends
Braudel's
discursive
production of
new agencies

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of history,
which accounts
for both the
material

conditions in
which history
takes place
and the
language in
which it is
written.

This is the

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first book on
the market to
bring together
material on

array signal
processing in
a coherent
fashion, with
uniform
notation and
convention of
models. KEY

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TOPICS: Using extensive examples and problems, it presents not only the theories of propagating waves and conventional array processing

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algorithms,
but also the
underlying
ideas of
adaptive array
processing and
multi-array
tracking
algorithms.

MARKET: This
manual will be
valuable to

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engineers who wish to practice and advance their careers in the array signal processing field.

The main thrust is to provide students with

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a solid
understanding
of a number of
important and
related
advanced
topics in
digital signal
processing
such as Wiener
filters, power
spectrum

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estimation,
Processing
signal
Detection Theory
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adaptive

filtering.

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worked

examples

illustrate

fine points,

compare

techniques and

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algorithms and
facilitate
comprehension
of fundamental
concepts. The
book also
features an
abundance of
interesting
and
challenging
problems at

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Signal
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Recursion.
Lattice

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Wiener
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Filtering.
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Spectrum

Estimation.

Adaptive

Filtering

This book

presents

digital signal

processing

theories and

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methods and
their
applications
in data
analysis,
error analysis
and
statistical
signal
processing.
Algorithms and
Matlab

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programming
are included
to guide
readers step
by step in
dealing with
practical
difficulties.
Designed in a
self-contained
way, the book
is suitable

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for graduate
students in
electrical
engineering,
information
science and
engineering in
general.

Digital Signal
Processing
with Examples
in MATLAB

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Data
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Scientists

An

Introduction
to Statistical
Signal

Processing
Fundamentals
of Signal

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Sound and
Vibration
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Array Signal
Processing

***A mathematically
accessible textbook
introducing all the tools
needed to address
modern inference
problems in engineering
and data science.***

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Fundamentals Of
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The only book on the subject at this level, this is a well written formalised and concise presentation of the basis of statistical signal processing. It teaches a wide variety of techniques, demonstrating how they can be applied to many different situations.

*V.2 Detection theory --
V.1 Estimation theory.*

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*Highly readable
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one of the great time-
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processing Together
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III and the new Part IV,
this will be the most
complete treatment of
the subject available As
imperative today as it
was when it originally
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section summaries,
examples, and a large
number of problems*
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Communications
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Signal Detection and
Estimation Manual
Practical algorithm
development