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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

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knowledge of applied probability 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 (1983) in this series. More advanced concepts in

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these areas are introduced where needed, primarily in Chapters VI and VII, where continuous-time problems are treated. This book is adapted from a one-semester, second-tier graduate course taught at the University of Illinois. However, this material can

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also be used for a shorter or first-tier course by restricting 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.

A National Bestseller, a New York Times Notable Book, and an Entertainment Weekly Best Book of

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It's the summer of 1854, and London is just emerging as one of the first modern cities in the world. But lacking the infrastructure-garbage removal, clean water, sewers-necessary to support its rapidly expanding population, the city has become the

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perfect breeding ground for a terrifying disease no one knows how to cure. As the cholera outbreak takes hold, a physician and a local curate are spurred to action-and ultimately solve the most pressing medical riddle of their time. In a triumph of multidisciplinary thinking,

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Johnson illuminates the intertwined histories of the spread of disease, the rise of cities, and the nature of scientific inquiry, offering both a riveting history and a powerful explanation of how it has shaped the world we live in.

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detection of signals and the fundamentals required for statistical detection of signals in noise. Problem exercises, references, and a supplementary bibliography are included after each chapter. Students taking a graduate course in signal

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detection theory.

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introduction, without
the need for an
extensive mathematical
background. The authors
lead the reader through
the fundamental
mathematical principles

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underlying the operation
of key signal processing
techniques, providing
simple arguments and
cases rather than
detailed general proofs.
Coverage of practical

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implementation,
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limitations of
particular methods and
plentiful MATLAB
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and equips students and
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relatively recent area
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dimensional but low-complexity objects from a limited number of measurements. The topic has applications to signal/image processing and computer algorithms,

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and it draws from a variety of mathematical techniques such as graph theory, probability theory, linear algebra, and optimization. The author presents

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significant concepts
never before discussed
as well as new advances
in the theory, providing
an in-depth initiation
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Introduction to
Compressed Sensing
contains substantial
material on graph theory
and the design of binary
measurement matrices,
which is missing in

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recent texts despite being poised to play a key role in the future of compressed sensing theory. It also covers several new developments in the field and is the

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only book to thoroughly study the problem of matrix recovery. The book supplies relevant results alongside their proofs in a compact and streamlined presentation

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that is easy to
navigate. The core
audience for this book
is engineers, computer
scientists, and
statisticians who are
interested in compressed

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Surface Water Sources

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counterfeiting, armed bank
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destruction. There are 3
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interviews with law
enforce. officials and
former terrorists are used
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*arguments of the
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readers on how to quickly
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using SDR for real-world
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communication techniques such as OFDM, LTE, WLA, and hardware targeting. Readers will gain an understanding of the core concepts behind wireless hardware, such as the

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radio frequency front-end, analog-to-digital and digital-to-analog converters, as well as various processing technologies. Moreover, this volume includes

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*chapters on timing
estimation, matched
filtering, frame
synchronization message
decoding, and source
coding. The orthogonal
frequency division*

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multiplexing is explained and details about HDL code generation and deployment are provided. The book concludes with coverage of the WLAN toolbox with OFDM beacon reception and the

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LTE toolbox with downlink reception. Multiple case studies are provided throughout the book. Both MATLAB and Simulink source code are included to assist readers with their

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*projects in the field.
This book presents recent
advances in DSP to
simplify, or increase the
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*fundamentals textbook and
presents new, but tried-
and-true, clever
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Linear Modulation Theory
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theory*

Haykin examines both the mathematical theory behind various linear adaptive filters with finite-duration impulse response (FIR) and the elements of supervised neural networks.

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This edition has been updated and refined to keep current with the field and develop concepts in as unified and accessible a manner as possible. It: introduces a completely new chapter on Frequency-Domain Adaptive Filters; adds a chapter

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material on RLS algorithms;
strengthens linkages to Kalman
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treatment of the important subject of optimal linear estimation, which is encountered in many areas of engineering such as communications, control, and signal processing, and also in several other fields, e.g., econometrics and statistics. The

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book not only highlights the most significant contributions to this field during the 20th century, including the works of Wiener and Kalman, but it does so in an original and novel manner that paves the way for further developments. This book

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contains a large collection of problems that complement it and are an important part of piece, in addition to numerous sections that offer interesting historical accounts and insights. The book also includes several results that appear in print for the first time.

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FEATURES/BENEFITS Takes a geometric point of view. Emphasis on the numerically favored array forms of many algorithms. Emphasis on equivalence and duality concepts for the solution of several related problems in adaptive filtering,

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that the fundamental simplicity and power of these ideas will be more widely recognized and exploited. Among other things, these features already yielded new insights and new results for linear and nonlinear problems in areas such as adaptive filtering,

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to the very nature of our universe. Time and again, where Yau has gone, physics has followed. Now for the first time, readers will follow Yau's penetrating thinking on where we've been, and where mathematics will take us next. A fascinating

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

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are: *heavy reliance on computer simulation for illustration and student exercises *the incorporation of MATLAB programs and code segments *discussion of discrete random variables followed by continuous

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confusion *summary sections at
the beginning of each chapter *in-
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the 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 a leading expert in signal processing. He has

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received the Education Award "for outstanding contributions in education and in writing scholarly books and texts..." from the IEEE Signal Processing society and has been listed as among the 250 most cited researchers in the world in

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This report aims to assist the Air

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Force in its continued efforts to combat sexual assault perpetration within its ranks by examining the existing empirical literature on adult perpetrators who commit sexual assault against other adults, with a particular focus on research

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published in 2000 or later. The literature search focused on the current state of scientific knowledge and was not limited to studies focusing on military populations.

A Review of the Literature on

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Sexual Assault Perpetrator
Characteristics and Behaviors
An Introduction to Signal Detection
and Estimation
Software-Defined Radio for
Engineers
Practical Algorithm Development,

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Volume III

An Introduction to Compressed Sensing

This book embraces the many mathematical procedures that engineers and statisticians use to

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draw inference from imperfect or incomplete measurements. This book presents the fundamental ideas in statistical signal processing along four distinct lines:

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mathematical and
statistical preliminaries;
decision theory;
estimation theory; and
time series analysis.
Detection of Signals in
Noise