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Prostate cancer is the most
diagnosed cancer and a
leading cause of death by
cancer in Australian men.
Early detection is key to
successful treatment but men
often dodge the doctor,
avoiding diagnosis ...

New AI tech for early

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detection of prostate cancer

Prostate cancer is the most diagnosed cancer and a leading cause of death by cancer in Australian men. Recently researchers developed an artificial intelligence-powered diagnostic tool that spots

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Researchers develop new diagnostic tool for early detection of prostate cancer

Prostate cancer is the most diagnosed cancer and a leading cause of death by cancer in Australian men. Early detection is key to successful treatment but men often dodge the doctor, avoiding diagnosis ...

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RMIT develops AI for early
detection of prostate cancer

RMIT University and St Vincent's Hosital Melbourne have collaborated on the development of an artificial intelligence (AI) program for early detection of prostate cancer. The tech, developed by RMIT ...

RMIT, St Vincent's Hospital
Melbourne team up to develop
new AI tech for early
detection of prostate cancer

Biden's infrastructure push presents a rare chance for U.S. school districts to make their buildings both greener and cheaper to operate.

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America's schools are crumbling. Fixing them could save lives – and the planet.

“A detection principle should also be chosen—for example ... “Sample preparation should provide reproducible and homogeneous sample solutions that are compatible with the mobile phase system. Sample ...

Outlining the Key Steps to Method Development

Headlines and buzzwords surrounding lidar can sometimes be confusing even to people in the industry, let alone those with only a casual interest in this space.

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Lidar 101: Understanding Lidar Technology Choices And Their Implications

PITTSBURGH, June 17, 2021

/PRNewswire/ -- First

National Bank, the largest
subsidiary of F.N.B.

Corporation (NYSE: FNB), has
recently enhanced its
product offering with a
series of solutions that ...

First National Bank Announces Additional Products and Solutions to Address Homeownership and Financial Independence in Vulnerable Communities

The Reputations Agency
recently announced that the
top five organisations by

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Reputation are Bord Bia, the Credit Unions, An Post, St Vincent's ... than one with a poor reputation (just 8 per ...

Future proof by ensuring reputational leadership

And poor Lisa Boothe doesn't know when to ... So I decided it's my job to amplify Vincent's sensible solutions. And none of them factor into race, which means CNN will call them racist.

Greg Gutfeld: Getting rid of activity quotas would stop forcing cops to chase minor violations

F.N.B. Corporation (NYSE:

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FNB) announced today that it plans to issue financial results for the second quarter of 2021 after the market close on Monday, July 19, 2021. Chairman, President and Chief ...

F.N.B. Corporation Schedules Second Quarter 2021 Earnings Report and Conference Call
Jul 05, 2021 (The Expresswire) -- "Final Report will add the analysis of the impact of COVID-19 on this industry." Global "Melanoma Detection ...

Melanoma Detection Market Size, 2021 Growth, Future Trends, Top Key Players, Share and Global Analysis by

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Forecast to 2026

The newest FDA clearance for this pedicle screw system will allow surgeons to augment universal screw designs with cement for patients with late-stage tumors and poor bone quality, according to ...

Neo Medical receives FDA clearance of pedicle screw system for late-stage tumor indication

Fleet Complete Launches Vision 2.0, Next-generation AI-Powered Dash Cam & Video Telematics Solution. Fleet managers will now have access to powerful vehicle safety capabilities wi ...

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Fleet Complete Launches Vision 2.0, Next-generation AI-Powered Dash Cam & Video Telematics Solution

The pandemic brought three times as many calls for food, and already in 2021, volunteers have driven more than 7,000 miles to help the poor ... We're not a total solution, by far, but we do ...

Irving Food Pantry Needs
Help Restocking the Shelves
"FNB's approach to banking is rooted in our commitment to the local communities that we serve," said Vincent J ... banking and wealth management solutions through its subsidiary network which

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First National Bank
Announces New Central
Mountain Regional President
(Photo: AP/Vincent Thian ...
are not a lasting solution
when they have upended lives
and destroyed livelihoods.
Frustrations regarding the
futility of new rules and
the poor government response
...

Commentary: What's behind no-
shows in vaccination centres
across Malaysia?

"Homeownership brings
significant benefits, both
for families and for the
communities where they
live," said Vincent J ...

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Estimation that matches customers to
FNB solutions, individuals
can view ...

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 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 these areas are introduced where needed,

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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 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. Sufficient background for the latter option is given for exam ple in the book by Thomas (1986), also in this

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"For those involved in the design and implementation of signal processing algorithms, this book strikes a balance between highly theoretical expositions and the more practical treatments, covering only those approaches necessary for obtaining an optimal estimator and analyzing its performance. Author Steven M. Kay discusses classical estimation followed by Bayesian estimation, and illustrates the theory with numerous pedagogical and real-world examples."--Cover, volume 1.

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This textbook provides a comprehensive and current understanding of signal detection and estimation, including problems and solutions for each chapter. Signal detection plays an important role in fields such as radar, sonar, digital communications, image processing, and failure detection. The book explores both Gaussian detection and detection of Markov chains, presenting a unified treatment of coding and modulation topics. Addresses asymptotic of tests with the theory of large deviations, and robust detection. This text is

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Appropriate for students of Electrical Engineering in graduate courses in Signal Detection and Estimation.

This newly revised edition of a classic Artech House book provides you with a comprehensive and current understanding of signal detection and estimation. Featuring a wealth of new and expanded material, the second edition introduces the concepts of adaptive CFAR detection and distributed CA-CFAR detection. The book provides complete explanations of the mathematics you need to fully master the material, including probability

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theory, distributions, and
random processes.

This original work offers the most comprehensive and up-to-date 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 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

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way for further
developments. This book
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.

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,
estimation, and control.

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Estimation. These features are generally absent in most prior treatments, ostensibly on the grounds that they are too abstract and complicated. It is the authors' hope that these misconceptions will be dispelled by the presentation herein, and 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, quadratic control, and estimation,

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including the recent Hà
theories.

Originally published in 1968, Harry Van Trees's Detection, Estimation, and Modulation Theory, Part I is one of the great time-tested classics in the field of signal processing. Highly readable and practically organized, it is as imperative today for professionals, researchers, and students in optimum signal processing as it was over thirty years ago. The second edition is a thorough revision and expansion almost doubling the size of the first edition and accounting for the new

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developments thus making it again the most comprehensive and up-to-date treatment of the subject. With a wide range of applications such as radar, sonar, communications, seismology, biomedical engineering, and radar astronomy, among others, the important field of detection and estimation has rarely been given such expert treatment as it is here. Each chapter includes section summaries, realistic examples, and a large number of challenging problems that provide excellent study material. This volume which is Part I of a set of four volumes is the most important and widely used

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Textbook and professional
reference in the field.

Essential background reading for engineers and scientists working in such fields as communications, control, signal, and image processing, radar and sonar, radio astronomy, seismology, remote sensing, and instrumentation. The book can be used as a textbook for a single course, as well as a combination of an introductory and an advanced course, or even for two separate courses, one in signal detection, the other in estimation.

The areas of communications,

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Computer networks, and signal processing have undergone rapid development over the past several years. The advent of VLSI circuitry and increasingly sophisticated computer hardware and software techniques have made possible the construction of systems and signal processors for communications applications not contemplated only a short time ago. The increasing complexity of communication systems, both by themselves and in land-based or satellite networks, has created a greater need for finding use ful mathematical techniques for their

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Evolution analysis. The rapidly evolving technologies involved continue to find exciting new areas for application, and it remains a challenge for researchers to keep abreast of developments. In this volume researchers from a broad cross section of the areas of communications, signal processing, and computer networks have been invited to contribute articles to assist readers in learning about the current state of research and future research directions in their area. The authors were not given tight guidelines for their contributions and thus the character and emphasis of

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Each chapter differs.

Although the scope of the areas considered is necessarily limited in a volume of this size, the coverage here is quite broad and it is hoped that the reader will find the contents of this volume to be interesting, useful, and informative.

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

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Approach is to motivate the need 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 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 of MATLAB programs and code segments *discussion of discrete random variables followed by continuous random variables to minimize confusion *summary sections at the

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beginning of 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
Probability and Random
Processes using MATLAB® is
intended for undergraduate
and first-year graduate
students in engineering. The
practicing engineer as well
as others having 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

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and 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 society and has been listed as among the 250 most cited researchers in the world in engineering.

This Intergovernmental Panel on Climate Change Special Report (IPCC-SREX) explores the challenge of understanding and managing the risks of climate extremes to advance climate change adaptation. Extreme weather and climate events,

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Interacting with exposed and vulnerable human and natural systems, can lead to disasters. Changes in the frequency and severity of the physical events affect disaster risk, but so do the spatially diverse and temporally dynamic patterns of exposure and vulnerability. Some types of extreme weather and climate events have increased in frequency or magnitude, but populations and assets at risk have also increased, with consequences for disaster risk. Opportunities for managing risks of weather- and climate-related disasters exist or can be developed at any scale,

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Local to international.

Prepared following strict IPCC procedures, SREX is an invaluable assessment for anyone interested in climate extremes, environmental disasters and adaptation to climate change, including policymakers, the private sector and academic researchers.

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