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LOSING THE SIGNAL

THE UNTOLD STORY BEHIND THE EXTRAORDINARY RISE AND SPECTACULAR FALL OF BLACKBERRY

Random House **Winner of the Canadian National Business Book Award 2016 Shortlisted for the FT/McKinsey Business Book of the Year Award 2015 In 2009, BlackBerry controlled half of the US smartphone market. Today that number is less than one per cent. What went so wrong? Losing the Signal is the riveting story of a company that toppled global giants before succumbing to the ruthlessly competitive forces of Silicon Valley. This is not a conventional tale of modern business failure by fraud and greed; instead, the rise and fall of BlackBerry reveals the dangerous speed at which innovators race along the information superhighway. With unprecedented access to key players, senior executives, directors, and competitors, Losing the Signal unveils the remarkable rise of a company that started above a bagel store in a small Canadian city and went on to control half of the US smartphone market. However, at the very moment BlackBerry was ranked the world's fastest-growing company, internal feuds and chaotic growth crippled the company as it faced its gravest test: the entry of Apple and Google into the mobile phone market. Expertly told by acclaimed journalists Jacquie McNish and Sean Silcoff, this is an entertaining, whirlwind narrative that goes behind the scenes to reveal one of the most compelling business stories of the new century.**

LOSING THE SIGNAL

THE UNTOLD STORY BEHIND THE EXTRAORDINARY RISE AND SPECTACULAR FALL OF BLACKBERRY

<u>Flatiron Books</u> **A breathtaking inside account of one of the most dramatic business triumphs and flameouts in recent history.**

INFORMATION LOSS IN DETERMINISTIC SIGNAL PROCESSING SYSTEMS

<u>Springer</u> **This book introduces readers to essential tools for the measurement and analysis of information loss in signal processing systems. Employing a new information-theoretic systems theory, the book analyzes various systems in the signal processing engineer's toolbox: polynomials, quantizers, rectifiers, linear filters with and without quantization effects, principal components analysis, multirate systems, etc. The user benefit of signal processing is further highlighted with the concept of relevant information loss. Signal or data processing operates on the physical representation of information so that users can easily access and extract that information. However, a fundamental theorem in information theory—data processing inequality—states that deterministic processing always involves information loss. These measures form the basis of a new information-theoretic systems theory, which complements the currently prevailing approaches based on second-order statistics, such as the mean-squared error or error energy. This theory not only provides a deeper understanding but also extends the design space for the applied engineer with a wide range of methods rooted in information theory, adding to existing methods based on energy or quadratic representations.**

STRENGTHENING FORENSIC SCIENCE IN THE UNITED STATES

A PATH FORWARD

<u>National Academies Press</u> **Scores of talented and dedicated people serve the forensic science community, performing vitally important work. However, they are often constrained by lack of adequate resources, sound policies, and national support. It is clear that change and advancements, both systematic and scientific, are needed in a number of forensic science disciplines to ensure the reliability of work, establish enforceable standards, and promote best practices with consistent application. Strengthening Forensic Science in the United States: A Path Forward provides a detailed plan for addressing these needs and suggests the creation of a new government entity, the National Institute of Forensic Science, to establish and enforce standards within the forensic science community. The benefits of improving and regulating the forensic science disciplines are clear: assisting law enforcement officials, enhancing homeland security, and reducing the risk of wrongful conviction and exoneration. Strengthening Forensic Science in the United States gives a full account of what is needed to advance the forensic science disciplines,**

including upgrading of systems and organizational structures, better training, widespread adoption of uniform and enforceable best practices, and mandatory certification and accreditation programs. While this book provides an essential call-to-action for congress and policy makers, it also serves as a vital tool for law enforcement agencies, criminal prosecutors and attorneys, and forensic science educators.

INTERNATIONAL CONVERGENCE OF CAPITAL MEASUREMENT AND CAPITAL STANDARDS

A REVISED FRAMEWORK

Lulu.com

FORGOTTEN ARCHIVES 3

THE LOST SIGNAL CORPS PHOTOS

The search for and discovery of seldom seen and unpublished US Army Signal Corps photographs formed the backbone of the first two volumes of Forgotten Archives. In this third installment, author Darren Neely continues his search for new imagery in unknown archives, while broadening contact with veteran's families. This superbly produced 240-page book features 249 clear, high-quality photographs of US and German fighting vehicles, which are complemented by 8-pages of specially commissioned color artwork by Felipe Rodna. QR-codes are included on 31 pages; point your smartphone camera at them to see the scene in Google Maps or Street View.

SIXTH INTERNATIONAL CONFERENCEW ON INFORMATION TECHNOLOGY

Allied Publishers

UNDERSTANDING SIGNAL INTEGRITY

Artech House **This unique book provides you with practical guidance on understanding and interpreting signal integrity (SI) performance to help you with your challenging circuit board design projects. You find high-level discussions of important SI concepts presented in a clear and easily accessible format, including question and answer sections and bulleted lists.This valuable resource features rules of thumb and simple equations to help you make estimates of critical signal integrity parameters without using circuit simulators of CAD (computer-aided design). The book is supported with over 120 illustrations, nearly 100 equations, and detailed reference lists at the end of each chapter.**

RADIODIGNOSIS FOR MEDICAL STUDENTS EBOOK-PDF

OBJECTIVE QUESTIONS FROM VARIOUS EXAMS WITH ANSWERS

Chandresh Agrawal **SGN. The Ebook-PDF Radiodignosis For Medical Students Covers Objective Questions From Various Exams With Answers.**

COMPARISONS OF ANALYTICAL AND NUMERICAL CALCULATIONS OF COMMUNICATIONS PROBABILITY

OT REPORT

DIGITAL COMMUNICATIONS

John Wiley & Sons **This is a modern textbook on digital communications and is designed for senior undergraduate and graduate students, whilst also providing a valuable reference for those working in the telecommunications industry. It provides a simple and thorough access to a wide range of topics through use of figures, tables, examples and problem sets. The author provides an integrated approach between RF engineering and statistical theory of communications. Intuitive explanations of the theoretical and practical aspects of telecommunications help the reader to acquire a deeper understanding of the topics. The book covers the fundamentals of antennas, channel modelling, receiver system noise, A/D conversion of signals, PCM, baseband transmission, optimum receiver, modulation techniques, error control coding, OFDM, fading channels, diversity and combining techniques, MIMO systems and cooperative communications. It will be an essential reference for all students and practitioners in the electrical engineering field.**

GLOBAL TRENDS 2040

A MORE CONTESTED WORLD

Cosimo Reports **"The ongoing COVID-19 pandemic marks the most significant, singular global disruption since World War II, with health, economic, political, and security implications that will ripple for years to come." -Global Trends 2040 (2021) Global Trends 2040-A More Contested World (2021), released by the US National Intelligence Council, is the latest report in its series of reports starting in 1997 about megatrends and the world's future. This report, strongly influenced by the COVID-19 pandemic, paints a bleak picture of the future and describes a contested, fragmented and turbulent world. It specifically discusses the four main trends that will shape tomorrow's world: - Demographics-by 2040, 1.4 billion people will be added mostly in Africa and South Asia. - Economics-increased government debt and concentrated economic power will escalate problems for the poor and middleclass. - Climate-a hotter world will increase water, food, and health insecurity. - Technology-the emergence of new technologies could both solve and cause problems for human life. Students of trends, policymakers, entrepreneurs, academics, journalists and anyone eager for**

a glimpse into the next decades, will find this report, with colored graphs, essential reading.

ADVANCES IN MODERN BLIND SIGNAL SEPARATION ALGORITHMS

THEORY AND APPLICATIONS

Morgan & Claypool Publishers **With human-computer interactions and hands-free communications becoming overwhelmingly important in the new millennium, recent research efforts have been increasingly focusing on state-of-the-art multimicrophone signal processing solutions to improve speech intelligibility in adverse environments. One such prominent statistical signal processing technique is blind signal separation (BSS). BSS was first introduced in the early 1990s and quickly emerged as an area of intense research activity showing huge potential in numerous applications. BSS comprises the task of `blindly' recovering a set of unknown signals, the so-called sources from their observed mixtures, based on very little to almost no prior knowledge about the source characteristics or the mixing structure. The goal of BSS is to process multi-sensory observations of an inaccessible set of signals in a manner that reveals their individual (and original) form, by exploiting the spatial and temporal diversity, readily accessible through a multi-microphone configuration. Proceeding blindly exhibits a number of advantages, since assumptions about the room configuration and the source-to-sensor geometry can be relaxed without affecting overall efficiency. This booklet investigates one of the most commercially attractive applications of BSS, which is the simultaneous recovery of signals inside a reverberant (naturally echoing) environment, using two (or more) microphones. In this paradigm, each microphone captures not only the direct contributions from each source, but also several reflected copies of the original signals at different propagation delays. These recordings are referred to as the convolutive mixtures of the original sources. The goal of this booklet in the lecture series is to provide insight on recent advances in algorithms, which are ideally suited for blind signal separation of convolutive speech mixtures. More importantly, specific emphasis is given in practical applications of the developed BSS algorithms associated with real-life scenarios. The developed algorithms are put in the context of modern DSP devices, such as hearing aids and cochlear implants, where design requirements dictate low power consumption and call for portability and compact size. Along these lines, this booklet focuses on modern BSS algorithms which address (1) the limited amount of processing power and (2) the small number of microphones available to the end-user.**

RADIO RESOURCE MANAGEMENT IN WIRELESS NETWORKS

AN ENGINEERING APPROACH

Cambridge University Press **This book allows readers to gain an in-depth**

understanding of resource allocation problems in wireless networks and the techniques used to solve them.

HOW TO TRADE BINARY OPTIONS SUCCESSFULLY

A COMPLETE GUIDE TO BINARY OPTIONS TRADING

Liraz Publishing **The purpose of this book is to show you how to make money trading Binary Options. Binary Options are a popular investment instrument for trading stocks, commodities and currencies. Trading Binaries is very simple and straightforward, all you need to do is decide which of the two directions the asset will move, up or down. And binaries has quite a high profit potential. Binary options allow even beginners the opportunity to succeed with financial trading. Actually people that have minimum financial track record can easily make money by learning how to trade options online. This book features the in and outs of binary options as well as strategies needed to achieve success in trading binaries. Here are some of the topics you'll discover while reading the book: * The single most critical factor to binary options success - ignore it at your own perils. * How to prevent falling prey to a dishonest broker. * Simple, easy to copy ideas that will enhance your chances of winning trades. * How to spot a Binary Options scam. * What you need to succeed in Binary Options. * Advantages and disadvantages of trading binary options. * Effective risk management strategies to help you minimize your risk and conserve your capital. * Key factors to successful financial Binary Options trading. * How to develop binary options investment strategies and entry points signals that work. * A list of easy-to-follow tips to help you improve your trading successes. * How much money you need to start trading.**

FINANCIAL SIGNAL PROCESSING AND MACHINE LEARNING

John Wiley & Sons **The modern financial industry has been required to deal with large and diverse portfolios in a variety of asset classes often with limited market data available. Financial Signal Processing and Machine Learning unifies a number of recent advances made in signal processing and machine learning for the design and management of investment portfolios and financial engineering. This book bridges the gap between these disciplines, offering the latest information on key topics including characterizing statistical dependence and correlation in high dimensions, constructing effective and robust risk measures, and their use in portfolio optimization and rebalancing. The book focuses on signal processing approaches to model return, momentum, and mean reversion, addressing theoretical and implementation aspects. It highlights the connections between portfolio theory, sparse learning and compressed sensing, sparse eigen-portfolios, robust optimization, non-Gaussian data-driven risk measures, graphical models, causal analysis through temporal-causal modeling, and large-scale copula-based approaches. Key features:**

Highlights signal processing and machine learning as key approaches to quantitative finance. Offers advanced mathematical tools for high-dimensional portfolio construction, monitoring, and post-trade analysis problems. Presents portfolio theory, sparse learning and compressed sensing, sparsity methods for investment portfolios. including eigen-portfolios, model return, momentum, mean reversion and non-Gaussian data-driven risk measures with real-world applications of these techniques. Includes contributions from leading researchers and practitioners in both the signal and information processing communities, and the quantitative finance community.

HANDS-ON SIGNAL ANALYSIS WITH PYTHON

AN INTRODUCTION

Springer Nature **This book provides the tools for analyzing data in Python: different types of filters are introduced and explained, such as FIR-, IIR- and morphological filters, as well as their application to one- and two-dimensional data. The required mathematics are kept to a minimum, and numerous examples and working Python programs are included for a quick start. The goal of the book is to enable also novice users to choose appropriate methods and to complete real-world tasks such as differentiation, integration, and smoothing of time series, or simple edge detection in images. An introductory section provides help and tips for getting Python installed and configured on your computer. More advanced chapters provide a practical introduction to the Fourier transform and its applications such as sound processing, as well as to the solution of equations of motion with the Laplace transform. A brief excursion into machine learning shows the powerful tools that are available with Python. This book also provides tips for an efficient programming work flow: from the use of a debugger for finding mistakes, code-versioning with git to avoid the loss of working programs, to the construction of graphical user interfaces (GUIs) for the visualization of data. Working, well-documented Python solutions are included for all exercises, and IPython/Jupyter notebooks provide additional help to get people started and outlooks for the interested reader.**

HANDBOOK ON CONSTRUCTING COMPOSITE INDICATORS: METHODOLOGY AND USER GUIDE

OECD Publishing **A guide for constructing and using composite indicators for policy makers, academics, the media and other interested parties. In particular, this handbook is concerned with indicators which compare and rank country performance.**

HEARING LOSS

DETERMINING ELIGIBILITY FOR SOCIAL SECURITY BENEFITS

National Academies Press **Millions of Americans experience some degree of hearing loss. The Social Security Administration (SSA) operates programs that provide cash disability benefits to people with permanent impairments like hearing loss, if they can show that their impairments meet stringent SSA criteria and their earnings are below an SSA threshold. The National Research Council convened an expert committee at the request of the SSA to study the issues related to disability determination for people with hearing loss. This volume is the product of that study. Hearing Loss: Determining Eligibility for Social Security Benefits reviews current knowledge about hearing loss and its measurement and treatment, and provides an evaluation of the strengths and weaknesses of the current processes and criteria. It recommends changes to strengthen the disability determination process and ensure its reliability and fairness. The book addresses criteria for selection of pure tone and speech tests, guidelines for test administration, testing of hearing in noise, special issues related to testing children, and the difficulty of predicting work capacity from clinical hearing test results. It should be useful to audiologists, otolaryngologists, disability advocates, and others who are concerned with people who have hearing loss.**

OPTICAL WAVEGUIDES ANALYSIS AND DESIGN

Springer Nature **This book offers readers a comprehensive, detailed analysis and treatment of optical waveguides (fiber, slab), an essential component of ultra-high bandwidth long, medium and short-haul telecommunication. The author describes an analysis scheme for optical waveguides that combines both geometric ray optics and Maxwell's equations-based classical electrodynamics. This unique approach enables readers to develop an intuitive understanding of this topic, starting with macro properties, e.g., V parameter of an optical fiber, and progressively refining the analysis to individual modes of propagation through an optical waveguide. An exhaustive set of diagrams highlight the key features of an optical waveguide property, such as acceptance angle, meridional and skew rays in an optical fiber, or signal attenuation and dispersion in an optical waveguide. The author also provides a set of ready-to-use, ANSI C executables (for both Linux and Windows) that enable the reader to e.g, determine the allowed propagation modes (even, odd TE TM) of a graded, step index optical fiber and a slab waveguide. Offers readers a single-source reference to the analysis and design of optical waveguides; Begins with macro-level analysis of the properties of optical waveguides and dives deeply into details in a step-by-step manner, enabling readers to develop an intuitive understanding; Includes C language executables, along with optical waveguide analysis and design examples to demonstrate their use in context.**

TRAFFIC SIGNS MANUAL

CHAPTER 6: TRAFFIC CONTROL

THE COMMUNICATIONS HANDBOOK

CRC Press **For more than six years, The Communications Handbook stood as the definitive, one-stop reference for the entire field. With new chapters and extensive revisions that reflect recent technological advances, the second edition is now poised to take its place on the desks of engineers, researchers, and students around the world. From fundamental theory to state-of-the-art applications, The Communications Handbook covers more areas of specialty with greater depth that any other handbook available. Telephony Communication networks Optical communications Satellite communications Wireless communications Source compression Data recording Expertly written, skillfully presented, and masterfully compiled, The Communications Handbook provides a perfect balance of essential information, background material, technical details, and international telecommunications standards. Whether you design, implement, buy, or sell communications systems, components, or services, you'll find this to be the one resource you can turn to for fast, reliable, answers.**

DESIGNING WIRELESS SENSOR NETWORK SOLUTIONS FOR TACTICAL ISR

Artech House **This comprehensive resource demonstrates how wireless sensor network (WSN) systems, a key element of the Internet of Things (IoT), are designed and evaluated to solve problems associated with autonomous sensing systems. Functional blocks that form WSN-based systems are described, chapter by chapter, providing the reader with a progressive learning path through all aspects of designing remote sensing capabilities using a WSN-based system. The development and a full description of fundamental performance equations and technological solutions required by these real-time systems are included. This book explores the objectives and goals associated with tactical intelligence, surveillance, and reconnaissance (T-ISR) missions. Readers gain insight into the correlation between fine-grained sensor resolution associated with WSN-based system complexities and the difficult requirements associated with T-ISR missions. The book demonstrates how to wield emergent technologies to arrive at reliable and robust wireless networking for T-ISR and associated tasks using low-cost, low-power persistent sensor nodes. WSN is broken down into constituent subsystems, key components, functional descriptions, and attendant mathematical descriptions. This resource explains how the design of each element can be approached and successfully integrated into a viable and responsive sensor system that is autonomous, adaptable to mission objectives and environments, and deployable worldwide. It also provides examples of what not to do based**

on lessons learned from past (and current) systems that failed to provide end users with the required information. Chapters are linked together, in order of system assembly (concepts to operation), to provide the reader with a full toolset that can help deliver versatility in design decisions, solutions, and understanding of such systems, end to end.

INFLATION EXPECTATIONS

Routledge **Inflation is regarded by the many as a menace that damages business and can only make life worse for households. Keeping it low depends critically on ensuring that firms and workers expect it to be low. So expectations of inflation are a key influence on national economic welfare. This collection pulls together a galaxy of world experts (including Roy Batchelor, Richard Curtin and Staffan Linden) on inflation expectations to debate different aspects of the issues involved. The main focus of the volume is on likely inflation developments. A number of factors have led practitioners and academic observers of monetary policy to place increasing emphasis recently on inflation expectations. One is the spread of inflation targeting, invented in New Zealand over 15 years ago, but now encompassing many important economies including Brazil, Canada, Israel and Great Britain. Even more significantly, the European Central Bank, the Bank of Japan and the United States Federal Bank are the leading members of another group of monetary institutions all considering or implementing moves in the same direction. A second is the large reduction in actual inflation that has been observed in most countries over the past decade or so. These considerations underscore the critical – and largely underrecognized - importance of inflation expectations. They emphasize the importance of the issues, and the great need for a volume that offers a clear, systematic treatment of them. This book, under the steely editorship of Peter Sinclair, should prove very important for policy makers and monetary economists alike.**

RARE-EARTH-DOPED FIBER LASERS AND AMPLIFIERS, REVISED AND EXPANDED

CRC Press **A discussion of the theories, operating characteristics, and current technology of main fiber laser and amplifier devices based on rare-earth-doped silica and fluorozirconate fibers. It describes the principles, designs, and properties of the erbium-doped fiber amplifier and its role as the cornerstone component in optical communication systems. This second edition contains new and revised material reflecting major developments in academia and industry.**

ENGINEERING ELECTROMAGNETICS

APPLICATIONS

CRC Press **Electromagnetics is too important in too many fields for**

knowledge to be gathered on the fly. Knowing how to apply theoretical principles to the solutions of real engineering problems and the development of new technologies and solutions is critical. Engineering Electromagnetics: Applications provides such an understanding, demonstrating how to apply the underlying physical concepts within the particular context of the problem at hand. Comprising chapters drawn from the critically acclaimed Handbook of Engineering Electromagnetics, this book supplies a focused treatment covering radar, wireless, satellite, and optical communication technologies. It also introduces various numerical techniques for computer-aided solutions to complex problems, emerging problems in biomedical applications, and techniques for measuring the biological properties of materials. Engineering Electromagnetics: Applications shares the broad experiences of leading experts regarding modern problems in electromagnetics.

MICROWAVE AND RF PRODUCT APPLICATIONS

CRC Press **The field of microwave engineering has undergone a radical transformation in recent years, as commercial wireless endeavors overtook defense and government work. The modern microwave and RF engineer must be knowledgeable about customer expectations, market trends, manufacturing technologies, and factory models to a degree that is unprecedented. Unfortunately, most of the available literature does not reflect this fact, but remains focused on high-performance, low-volume applications. Microwave and RF Product Applications helps resolve that deficiency. Editor Mike Golio culled its chapters from his bestselling RF and Microwave Handbook, incorporated critical updates contributed by the original authors, and organized the chapters into a practical, tightly focused reference. A complete table of contents at the front of the text makes finding specific answers quick and easy, and detailed lists of references in each chapter provide convenient access to the relevant expert literature. For engineers in industry, government, or academia, Microwave and RF Product Applications provides insight and information that may be outside their area of expertise. For managers, marketers, and technical support personnel, it builds a better understanding of the fields that drive and are affected by their decisions.**

UNDERNEATH THE BRAGG PEAKS

STRUCTURAL ANALYSIS OF COMPLEX MATERIALS

Newnes **This book focuses on the structural determination of crystalline solids with extensive disorder. Well-established methods exist for characterizing the structure of fully crystalline solids or fully disordered materials such as liquids and glasses, but there is a dearth of techniques for the cases in-between, crystalline solids with internal atomic and nanometer scale disorder. Egami and Billinge discuss how to fill the gap**

using modern tools of structural characterization. This problem is encountered in the structural characterization of a surprisingly wide range of complex materials of interest to modern technology and is becoming increasingly important. Takeshi Egami received the 2003 Eugene Bertram Warren Diffraction Physics Award for the work described in the book. The authors received 2010 J. D. Hanawalt Award from the International Union of Crystallography largely based on the success of this book. Introduces a unique method to study the atomic structure of nanomaterials Lays out the basic theory and methods of this important emerging technique The first edition is considered the seminal text on the subject

FIBER OPTIC AND ATMOSPHERIC OPTICAL COMMUNICATION

John Wiley & Sons **A GUIDE TO THE FUNDAMENTAL THEORY AND PRACTICE OF OPTICAL COMMUNICATION Fiber Optic and Atmospheric Optical Communication offers a much needed guide to characterizing and overcoming the drawbacks associated with optical communication links that suffer from various types of fading when optical signals with information traverse these wireless (atmospheric) or wired (fiber optic) channels. The authors—noted experts on the topic—present material that aids in predicting the capacity, data rate, spectral efficiency, and bit-error-rate associated with a channel that experiences fading. They review modulation techniques and methods of coding and decoding that are useful when implementing communications systems. The book also discusses how to model the channels, including treating distortion due to the various fading phenomena. Light waves and their similarity to radio waves are explored, and the way light propagates through the atmosphere, through materials, and through the boundary between two materials is explained. This important book: Characterizes principal optical sources and detectors, including descriptions of their advantages and disadvantages, to show how to design systems from start to finish Provides a new method of predicting and dealing with the dispersive properties of fiber optic cables and other optical guiding structures in order to increase data stream capacity Highlights effects of material and multimode (multi-ray) dispersion during propagation of optical signals with data through fiber optic channels Presents modulation techniques and methods of coding and decoding that are useful when implementing communications systems Written for professionals dealing with optical and electro-optical communications, Fiber Optic and Atmospheric Optical Communication explores the theory and practice of optical communication both when the optical signal is propagating through the atmosphere and when it is propagating through an optical fiber.**

LIVING WITH HEARING LOSS

Gallaudet University Press **People who are hard of hearing and their friends and relatives now can learn all they need to know about hearing loss in this**

easy to read guide. Newly updated and revised, Living with Hearing Loss takes the reader from A to Z on the kinds and causes of hearing loss and its common early signs. Written by Marcia B. Dugan, past president of Self Help for Hard of Hearing People (SHHH), this straightforward book provides thorough information on seeking professional evaluations and complete descriptions of hearing aids and other assistive technologies. Enhanced sections on the potential of cochlear implants and dealing with tinnitus distinguishes this very useful handbook. Readers also can take advantage of updated information on relevant Internet sites and a new list of resources on dealing with hearing loss. Living with Hearing Loss also suggests strategies for everyday situations and times of emergency. Chapters on speechreading, oral interpreters, assertive communication, and other tips for improving communication can enable people with hearing loss to make changes at work, home, and while traveling to cope with most situations. It can raise significantly the quality of the lives of hard of hearing people while also helping them to avoid dependency upon others.

TIME-FREQUENCY SIGNAL ANALYSIS WITH APPLICATIONS

Artech House "The culmination of more than twenty years of research, this authoritative resource provides you with a practical understanding of time-frequency signal analysis. The book offers in-depth coverage of critical concepts and principles, along with discussions on key applications in a wide range of signal processing areas, from communications and optics... to radar and biomedicine. Supported with over 140 illustrations and more than 1,700 equations, this detailed reference explores the topics you need to understand for your work in the field, such as Fourier analysis, linear time frequency representations, quadratic time-frequency distributions, higher order time-frequency representations, and analysis of non-stationary noisy signals. This unique book also serves as an excellent text for courses in this area, featuring numerous examples and problems at the end of each chapter. "

PISA TAKE THE TEST SAMPLE QUESTIONS FROM OECD'S PISA ASSESSMENTS

SAMPLE QUESTIONS FROM OECD'S PISA ASSESSMENTS

OECD Publishing This book presents all the publicly available questions from the PISA surveys. Some of these questions were used in the PISA 2000, 2003 and 2006 surveys and others were used in developing and trying out the assessment.

MULTIPATH PHENOMENA IN CELLULAR NETWORKS

Artech House Cellular telephone system reception is dramatically affected by various factors in urban environments. This practical text covers the types

of problem, like fading, that is encountered when using multipath propagation.

VECTOR QUANTIZATION AND SIGNAL COMPRESSION

Springer Science & Business Media **Herb Caen, a popular columnist for the San Francisco Chronicle, recently quoted a Voice of America press release as saying that it was reorganizing in order to "eliminate duplication and redundancy. " This quote both states a goal of data compression and illustrates its common need: the removal of duplication (or redundancy) can provide a more efficient representation of data and the quoted phrase is itself a candidate for such surgery. Not only can the number of words in the quote be reduced without losing informa tion, but the statement would actually be enhanced by such compression since it will no longer exemplify the wrong that the policy is supposed to correct. Here compression can streamline the phrase and minimize the em barassment while improving the English style. Compression in general is intended to provide efficient representations of data while preserving the essential information contained in the data. This book is devoted to the theory and practice of signal compression, i. e. , data compression applied to signals such as speech, audio, images, and video signals (excluding other data types such as financial data or general purpose computer data). The emphasis is on the conversion of analog waveforms into efficient digital representations and on the compression of digital information into the fewest possible bits. Both operations should yield the highest possible reconstruction fidelity subject to constraints on the bit rate and implementation complexity.**

INDOOR LOCATION TECHNOLOGIES

Springer Science & Business Media **Focusing on the special challenges posed by accurately pinpointing a location indoors, this volume reflects the distance we have come in the handful of decades since the germination of GPS technology. Not only can we locate a signal to within a meter's accuracy, but we now have this technology in the most basic mobile phone. Tracing recent practical developments in positioning technology and in the market it supplies, the author examines the contributions of the varied research—in silicon, signal and image processing, radio communications and software—to a fast-evolving field. The book looks forward to a time when, in addition to directing your road journey, positioning systems can peer indoors and guide you to an available photocopier in your office building. Featuring standalone chapters each dealing with a specific aspect of the subject, including treatments of systems such as Zebra, Awarepoint, Aeroscout, IEEE 802.11, etc. This study has all the detail needed to get up to speed on a key modern technology.**

PROBABILISTIC TRADEOFFS FOR EFFICIENT SPECTRUM USE WITH A

"CB" EXAMPLE

WIRELESS NETWORKS FOR DUMMIES

John Wiley & Sons **You've probably heard the expression, "It's timeto cut the cord." Well, it may be time to "cut thecables" at your office and free yourself from your desk andcomputer. Wireless networks are the waves of thefuture—literally. Wireless Networks For Dummies guidesyou from design through implementation to ongoing protection ofyour system and your information so you can: Remain connected to the office in airports and hotels Access the Internet and other network resources in thelunchroom, conference room, or anywhere there's an accesspoint Use your PDA or laptop to query your database from thewarehouse or the boardroom Check e-mail wirelessly when you're on the road Get rid of the cable clutter in your office Wireless Networks For Dummies was coauthored by Barry D.Lewis, CISSP, and Peter T. Davis, who also coauthored ComputerSecurity For Dummies. Barry Lewis is president of aninformation security consulting firm and an internationally knownleader of security seminars. Peter Davis is founder of a firmspecializing in the security, audit, and control of information.Together, they cut through the cables, clutter, and confusion andhelp you: Get off to a quick start and get mobile with IrDA (InfraredData Association) and Bluetooth Perform a site survey and select the right standard, mode,access point, channel and antenna Check online to verify degree of interoperability of devicesfrom various vendors Install clients and set up roaming Combat security threats such as war driving, jamming,hijacking, and man-in-the-middle attacks Implement security and controls such as MAC (Media AccessControl) and protocol filtering, WEP (Wireless Equivalent Privacy),WPA, (Wi-Fi Protected Access), EAP (Extensible AuthenticationProtocol), and VPN (Virtual Private Network) Set up multiple access points to form a larger wirelessnetwork Complete with suggestions of places to get connected, Web siteswhere you can get more information, tools you can use to monitorand improve security, and more, Wireless Networks ForDummies helps you pull the plug and go wireless!**

POCKET BOOK OF HOSPITAL CARE FOR CHILDREN

GUIDELINES FOR THE MANAGEMENT OF COMMON CHILDHOOD ILLNESSES

World Health Organization **The Pocket Book is for use by doctors nurses and other health workers who are responsible for the care of young children at the first level referral hospitals. This second edition is based on evidence from several WHO updated and published clinical guidelines. It is for use in both inpatient and outpatient care in small hospitals with basic laboratory facilities and essential medicines. In some settings these guidelines can be used in any facilities where sick children are admitted for inpatient care. The Pocket Book is one of a series of documents and tools that support the**

Integrated Managem.

BIOMEDICAL ENGINEERING SYSTEMS AND TECHNOLOGIES

9TH INTERNATIONAL JOINT CONFERENCE, BIOSTEC 2016, ROME, ITALY, FEBRUARY 21–23, 2016, REVISED SELECTED PAPERS

Springer **This book constitutes the thoroughly refereed post-conference proceedings of the 9th International Joint Conference on Biomedical Engineering Systems and Technologies, BIOSTEC 2016, held in Rome, Italy, in February 2016. The 22 revised full papers presented were carefully reviewed and selected from a total of 321 submissions. The papers are organized in topical sections on biomedical electronics and devices; bioimaging; bioinformatics models, methods and algorithms; bio-inspired systems and signal processing; health informatics.**