

Read Book Wireless
Communications: Principles
And Practice

Wireless Communications: Principles And Practice

Detailing a systems
approach, Optical

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**Wireless Communications:
System and Channel
Modelling with MATLAB®,
is a self-contained
volume that concisely
and comprehensively
covers the theory and**

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technology of optical
wireless communications
systems (OWC) in a way
that is suitable for
undergraduate and
graduate-level students,
as well as researchers

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and professional
engineers. Incorporating
MATLAB® throughout, the
authors highlight past
and current research
activities to illustrate
optical sources,

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transmitters, detectors, receivers, and other devices used in optical wireless communications. They also discuss both indoor and outdoor environments, discussing

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how different
factors—including
various channel
models—affect system
performance and
mitigation techniques.
In addition, this book

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broadly covers crucial
aspects of OWC systems:
Fundamental principles
of OWC Devices and
systems Modulation
techniques and schemes
(including polarization

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shift keying) Channel
models and system
performance analysis
Emerging visible light
communications
Terrestrial free space
optics communication Use

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of infrared in indoor
OWC One entire chapter
explores the emerging
field of visible light
communications, and
others describe
techniques for using

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theoretical analysis and simulation to mitigate channel impact on system performance. Additional topics include wavelet denoising, artificial neural networks, and

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spatial diversity.

Content also covers
different challenges
encountered in OWC, as
well as outlining
possible solutions and
current research trends.

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A major attraction of the book is the presentation of MATLAB simulations and codes, which enable readers to execute extensive simulations and better

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understand OWC in
general.

Wireless

telecommunications is a
key technology sector
with tremendous
opportunities for growth

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and development around
the world. Recent years
have seen an explosion
in terms of the
available wireless
technologies such as
mobile cellular networks

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for voice and packet data, wireless local area networks, Bluetooth, and so on. Yet, the wireless revolution is very nascent and the 21st

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century is going to see tremendous diversification of wireless applications in 3G and 4G cellular networks such as rich multimedia-integrated

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voice-video

communication, video-
conferencing-based
interactive services,
multiuser gaming, and
strategic surveillance
for defence. The book

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comprehensively covers
the fundamental
technological advances
that have led to
progress in the area of
wireless communication
systems in recent years.

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Salient Features •

Strong emphasis on ad-hoc networks and new trends in

mobile/wireless

communication •

Introduces 3G/4G

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standards such as HSDPA,
LTE, WiMAX to help
students understand
practical aspects •
Demonstrates a deep
theoretical
understanding of network

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analysis along with its
real-world applications

- Detailed description
of radio propagation
over wireless channel
and its limitations •

Problem-solving-based

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approach to enhance
understanding • Blend of
analytical and
simulation-based
problems and examples
for better understanding
of concepts • Pedagogy

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includes Over 90
illustrations Over 34
Solved Examples Over 103
Practice Questions
Antennas and propagation
are of fundamental
importance to the

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coverage, capacity and
quality of all wireless
communication systems.

This book provides a
solid grounding in
antennas and
propagation, covering

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terrestrial and
satellite radio systems
in both mobile and fixed
contexts. Building on
the highly successful
first edition, this
fully updated text

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features significant new material and brand new exercises and supplementary materials to support course tutors. A vital source of information for

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practising and aspiring
wireless communication
engineers as well as for
students at postgraduate
and senior undergraduate
levels, this book
provides a fundamental

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grounding in the principles of antennas and propagation without excessive recourse to mathematics. It also equips the reader with practical prediction

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techniques for the
design and analysis of a
very wide range of
common wireless
communication systems.
Including: Overview of
the fundamental

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**electromagnetic
principles underlying
propagation and
antennas. Basic concepts
of antennas and their
application to specific
wireless systems.**

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Propagation measurement,
modelling and prediction
for fixed links,
macrocells, microcells,
picocells and megacells
Narrowband and wideband
channel modelling and

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the effect of the
channel on communication
system performance.

Methods that overcome
and transform channel
impairments to enhance
performance using

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diversity, adaptive
antennas and equalisers.
Key second edition
updates: New chapters on
Antennas for Mobile
Systems and Channel
Measurements for Mobile

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Radio Systems. Coverage of new technologies, including MIMO antenna systems, Ultra Wideband (UWB) and the OFDM technology used in Wi-Fi and WiMax systems. Many

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new propagation models
for macrocells,
microcells and
picocells. Fully revised
and expanded end-of-
chapter exercises. The
Solutions Manual can be

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requested from http://www.wiley.com/go/saunders_antennas_2e

For broadband communications, it was frequency division multiplexing. For

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optical communications,
it was wavelength
division multiplexing.
Then, for all types of
networks it was code
division. Breakthroughs
in transmission speed

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were made possible by these developments, heralding next-generation networks of increasing capability in each case. The basic idea is the same: more

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channels equals higher throughput. For wireless communications, it is space-time coding using multiple-input-multiple-output (MIMO) technology. Providing a

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complete treatment of
MIMO under a single
cover, MIMO System
Technology for Wireless
Communications assembles
coverage on all aspects
of MIMO technology along

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with up-to-date

information on key
related issues.

Contributors from
leading academic and
industrial institutions
around the world share

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their expertise and lend the book a global perspective. They lead you gradually from basic to more advanced concepts, from propagation modeling and

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performance analysis to
space-time codes,
various systems,
implementation options
and limitations,
practical system
development

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considerations, field trials, and network planning issues. Linking theoretical analysis to practical issues, the book does not limit itself to any specific

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standardization or
research/industrial
initiatives. MIMO is the
catalyst for the next
revolution in wireless
systems, and MIMO System
Technology for Wireless

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Communications lays a thorough and complete foundation on which to build the next and future generations of wireless networks.

Power Efficiency in

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Broadband Wireless

Communications

**Physical Layer Security
in Wireless**

Communications

**Fundamentals of Massive
MIMO**

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Optical Wireless
Communications
Design, Analysis, and
Implementation
Voice and Audio
Compression for Wireless
Communications

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This text succeeds in giving a practical introduction to the fundamentals, problems and techniques of the design and utilisation of optical fiber systems. This

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edition retains all core features, while incorporating recent improvements and developments in the field. Building on his classic edition, Rappaport covers

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*the fundamental issues
impacting all wireless
networks and reviews
virtually every important
new wireless standard and
technological development.
He illustrates each key*

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*concept with practical
examples, thoroughly
explained and solved step
by step.*

*Multiple-input multiple-
output (MIMO) technology
constitutes a breakthrough*

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in the design of wireless communications systems, and is already at the core of several wireless standards. Exploiting multipath scattering, MIMO techniques deliver

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*significant performance
enhancements in terms of
data transmission rate and
interference reduction.
This 2007 book is a
detailed introduction to
the analysis and design of*

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MIMO wireless systems.

*Beginning with an overview
of MIMO technology, the
authors then examine the
fundamental capacity
limits of MIMO systems.
Transmitter design,*

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including precoding and space-time coding, is then treated in depth, and the book closes with two chapters devoted to receiver design. Written by a team of leading

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experts, the book blends theoretical analysis with physical insights, and highlights a range of key design challenges. It can be used as a textbook for advanced courses on

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*wireless communications,
and will also appeal to
researchers and
practitioners working on
MIMO wireless systems.
This book will provide a
comprehensive technical*

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*guide covering
fundamentals, recent
advances and open issues
in wireless communications
and networks to the
readers. The objective of
the book is to serve as a*

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*valuable reference for
students, educators,
scientists, faculty
members, researchers,
engineers and research
strategists in these
rapidly evolving fields*

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*and to encourage them to
actively explore these
broad, exciting and
rapidly evolving research
areas.*

*Wireless Communications
Principles and Practice,*

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Second Edition

Wireless Multimedia

Communication Systems

Indoor Wireless

Communications

Voice Compression and

Communications

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*Advances in Body-Centric
Wireless Communication
Applications and State-of-
the-art*

Written by award-winning engineers whose research has been sponsored by the U.S. National Science Foundation (NSF), IBM,

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and Cisco's University Research Program, Wireless Sensor Networks: Principles and Practice addresses everything product developers and technicians need to know to navigate the field. It provides an all-inclusive examina

This book provides a comprehensive view of green communications considering all

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areas of ICT including wireless and wired networks. It analyses particular concepts and practices, addressing holistic approaches in future networks considering a system perspective. It makes full use of tables, illustrations, performance graphs, case studies and examples making it accessible for a wide audience.

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This book, edited and authored by world leading experts, gives a review of the principles, methods and techniques of important and emerging research topics and technologies in wireless communications and transmission techniques. The reader will: Quickly grasp a new area of research Understand the

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underlying principles of a topic and its application Ascertain how a topic relates to other areas and learn of the research issues yet to be resolved Reviews important and emerging topics of research in wireless technology in a quick tutorial format Presents core principles in wireless transmission theory Provides reference

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content on core principles, technologies, algorithms, and applications Includes comprehensive references to journal articles and other literature on which to build further, more specific and detailed knowledge

For cellular radio engineers and technicians. The leading book on wireless

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communications offers a wealth of practical information on the implementation realities of wireless communications. This book also contains up-to-date information on the major wireless communications standards from around the world. Covers every fundamental aspect of wireless

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communications, from cellular system design to networking, plus world-wide standards, including ETACS, GSM, and PDC. .

From Theory to Implementation
2nd Edition

Fundamentals of Wireless Communication
3G and Beyond

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Wireless Communications and Networks

Wireless Communications & Networking

Indoor Wireless

Communications: From Theory
to Implementation provides an in-
depth reference for design
engineers, system planners and

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post graduate students interested in the vastly popular field of indoor wireless communications. It contains wireless applications and services for in-building scenarios and knowledge of key elements

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in the design and implementation of these systems. Technologies such as Wireless Local Area Networks, Bluetooth, ZigBee, Indoor Optical Communications, WiMAX, UMTS and GSM for indoor environments are fully

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explained and illustrated with examples. Antennas and propagation issues for in-building scenarios are also discussed, emphasizing models and antenna types specifically developed for indoor

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communications. An exhaustive survey on indoor wireless communication equipment is also presented, covering all available technologies including antennas, distribution systems, transceivers and base stations.

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A comprehensive introduction to the basic principles, design techniques and analytical tools of wireless communications.

This book is intended for senior undergraduate and graduate students as well as practicing

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engineers who are involved in design and analysis of radio frequency (RF) circuits. Detailed tutorials are included on all major topics required to understand fundamental principles behind both the main sub-circuits

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required to design an RF transceiver and the whole communication system. Starting with review of fundamental principles in electromagnetic (EM) transmission and signal propagation, through detailed

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practical analysis of RF amplifier, mixer, modulator, demodulator, and oscillator circuit topologies, all the way to the system communication theory behind the RF transceiver operation, this book systematically covers all

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relevant aspects in a way that is suitable for a single semester university level course.

The Definitive, Comprehensive Guide to Cutting-Edge Millimeter Wave Wireless Design "This is a great book on mmWave systems

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that covers many aspects of the technology targeted for beginners all the way to the advanced users. The authors are some of the most credible scholars I know of who are well respected by the industry. I

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highly recommend studying this book in detail." —Ali Sadri, Ph.D., Sr. Director, Intel Corporation, MCG mmWave Standards and Advanced Technologies

Millimeter wave (mmWave) is today's breakthrough frontier for

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emerging wireless mobile cellular networks, wireless local area networks, personal area networks, and vehicular communications. In the near future, mmWave applications, devices, and networks will

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change our world. ¿ In Millimeter Wave Wireless Communications, four of the field's pioneers, including Theodore S. Rappaport, Robert W. Heath, Robert C. Daniels, and James N. Murdock, draw on their vast

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experience to empower engineers at all levels to succeed with mmWave. They deliver fundamental, end-to-end coverage of all aspects of future mmWave wireless communications systems. ¿ The

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authors explain new multi-Gigabit per second products and applications, mmWave signal propagation, analog and digital circuit design, mmWave antenna designs, and current and emerging wireless standards.

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They cover comprehensive mmWave wireless design issues for 60 GHz and other mmWave bands, from channel to antenna to receiver, introducing emerging design techniques that will be invaluable for research

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engineers in both industry and academia. ; Topics include Digital communication: baseband signal/channel models, modulation, equalization, error control coding, multiple input multiple output (MIMO)

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principles, and hardware architectures Radio wave propagation characteristics: indoor and outdoor channel models and beam combining Antennas/antenna arrays, including on-chip and in-package

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antennas, fabrication, and
packaging Analog circuit design:
mmWave transistors, fabrication,
and transceiver design
approaches Baseband circuit
design: multi-gigabit-per-second,
high-fidelity DAC and ADC

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converters Physical layer:
algorithmic choices, design
considerations, and impairment
solutions; and how to overcome
clipping, quantization, and
nonlinearity Higher-layer design:
beam adaptation protocols,

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relaying, multimedia
transmission, and multiband
considerations 60 GHz
standardization: IEEE 802.15.3c
for WPAN, Wireless HD,
ECMA-387, IEEE 802.11ad,
Wireless Gigabit Alliance (WiGig)

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Green Communications
Cognitive Radio Communication
and Networking
Millimeter Wave Wireless
Communications
Real Egoistic Behavior is to
Cooperate!

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Applications, Networks,
Platforms, Architectures, and
Security

Wireless Communications

*Updated and expanded, Physical
Principles of Wireless*

Communications, Second Edition

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illustrates the relationship between scientific discoveries and their application to the invention and engineering of wireless communication systems. The second edition of this popular textbook starts with a review of the relevant

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physical laws, including Planck's Law of Blackbody Radiation, Maxwell's equations, and the laws of Special and General Relativity. It describes sources of electromagnetic noise, operation of antennas and antenna arrays, propagation losses,

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and satellite operation in sufficient detail to allow students to perform their own system designs and engineering calculations.

Illustrating the operation of the physical layer of wireless communication systems—including

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cell phones, communication satellites, and wireless local area networks—the text covers the basic equations of electromagnetism, the principles of probability theory, and the operation of antennas. It explores the propagation of

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electromagnetic waves and describes the losses and interference effects that waves encounter as they propagate through cities, inside buildings, and to and from satellites orbiting the earth. Important natural phenomena are also

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*described, including Cosmic
Microwave Background Radiation,
ionospheric reflection, and
tropospheric refraction. New in the
Second Edition: Descriptions of 3G
and 4G cell phone systems
Discussions on the relation between*

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the basic laws of quantum and relativistic physics and the engineering of modern wireless communication systems A new section on Planck's Law of Blackbody Radiation Expanded discussions on general relativity and

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special relativity and their relevance to GPS system design An expanded chapter on antennas that includes wire loop antennas Expanded discussion of shadowing correlations and their effect on cell phone system design The text covers

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*the physics of Geostationary Earth
Orbiting satellites, Medium Earth
Orbiting satellites, and Low Earth
Orbiting satellites enabling students
to evaluate and make first order
designs of SATCOM systems. It also
reviews the principles of probability*

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theory to help them accurately determine the margins that must be allowed to account for statistical variation in path loss. The included problem sets and sample solutions provide students with the understanding of contemporary

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wireless systems needed to participate in the development of future systems.

Voice communications remains the most important facet of mobile radio services, which may be delivered over conventional fixed

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links, the Internet or wireless channels. This all-encompassing volume reports on the entire 50-year history of voice compression, on recent audio compression techniques and the protection as well as transmission of these signals

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in hostile wireless propagation environments. Audio and Voice Compression for Wireless and Wireline Communications, Second Edition is divided into four parts with Part I covering the basics, while Part II outlines the design of

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analysis-by-synthesis coding, including a 100-page chapter on virtually all existing standardised speech codecs. The focus of Part III is on wideband and audio coding as well as transmission. Finally, Part IV concludes the book with a range

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of very low rate encoding techniques, scanning a range of research-oriented topics. Fully updated and revised second edition of “Voice Compression and Communications”, expanded to cover Audio features Includes two

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new chapters, on narrowband and wideband AMR coding, and MPEG audio coding Addresses the new developments in the field of wideband speech and audio compression Covers compression, error resilience and error correction

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coding, as well as transmission aspects, including cutting-edge turbo transceivers Presents both the historic and current view of speech compression and communications. Covering fundamental concepts in a non-mathematical way before

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moving to detailed discussions of theoretical principles, future concepts and solutions to various specific wireless voice communication problems, this book will appeal to both advanced readers and those with a

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background knowledge of signal processing and communications.

Up-to-date, expert coverage of topics in wireless voice communications Voice

communication is the most important facet of mobile radio

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service. Even when the predicted surge of wireless data and Internet services becomes a reality, voice will remain the most natural means of human communication. Voice Compression and Communications details issues in wireless voice

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*communications and treats
compression, channel coding, and
wireless transmission as a joint
subject. Part I covers background
material, whereas Part II provides
detailed information on both
proprietary and standardized*

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analysis-by-synthesis codecs, including the speech codecs of virtually all existing wireline-based and wireless systems. Parts III and IV discuss mainly research-based wideband, audio, as well as very low-rate schemes likely to find their way

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*into future standards. Voice
Compression and Communications
describes fundamental concepts in a
non-mathematical way early in the
book for those with only a
background knowledge of signal
processing and communications.*

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More advanced readers will find detailed discussions of theoretical principles, future concepts, and solutions to various specific wireless voice communications problems. For courses in wireless communication networks and

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*systems A Comprehensive Overview
of Wireless Communications
Wireless Communication Networks
and Systems covers all types of
wireless communications, from
satellite and cellular to local and
personal area networks. Organized*

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into four easily comprehensible, reader-friendly parts, it presents a clear and comprehensive overview of the field of wireless communications. For those who are new to the topic, the book explains basic principles and fundamental

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*topics concerning the technology
and architecture of the field.*

*Numerous figures and tables help
clarify discussions, and each
chapter includes a list of keywords,
review questions, homework
problems, and suggestions for*

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further reading. The book includes an extensive online glossary, a list of frequently used acronyms, and a reference list. A diverse set of projects and other student exercises enables instructors to use the book as a component in a varied learning

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*experience, tailoring courses to meet
their specific needs.*

Wireless Sensor Networks

*Introduction to RF Circuits and
Design Techniques*

*Antennas and Propagation for
Wireless Communication Systems*

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Principles of Modern Wireless

Communication Systems

*Wireless Communication Networks
and Systems, Global Edition*

**Cognitive Radio Communications
and Networks gives
comprehensive and balanced**

Page 124/256

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**coverage of the principles of
cognitive radio communications,
cognitive networks, and details of
their implementation, including
the latest developments in the
standards and spectrum policy.
Case studies, end-of-chapter**

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questions, and descriptions of various platforms and test beds, together with sample code, give hands-on knowledge of how cognitive radio systems can be implemented in practice.

Extensive treatment is given to

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several standards, including IEEE 802.22 for TV White Spaces and IEEE SCC41 Written by leading people in the field, both at universities and major industrial research laboratories, this tutorial text gives communications

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**engineers, R&D engineers,
researchers, undergraduate and
post graduate students a complete
reference on the application of
wireless communications and
network theory for the design and
implementation of cognitive radio**

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**systems and networks Each
chapter is written by
internationally renowned experts,
giving complete and balanced
treatment of the fundamentals of
both cognitive radio
communications and cognitive**

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**networks, together with
implementation details Extensive
treatment of the latest standards
and spectrum policy developments
enables the development of
compliant cognitive systems
Strong practical orientation –**

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**through case studies and
descriptions of cognitive radio
platforms and testbeds – shows
how real world cognitive radio
systems and network
architectures have been built**

Alexander M. Wyglinski is an

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**Assistant Professor of Electrical
and Computer Engineering at
Worcester Polytechnic Institute
(WPI), Director of the WPI
Limerick Project Center, and
Director of the Wireless
Innovation Laboratory (WI Lab)**

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Each chapter is written by internationally renowned experts, giving complete and balanced treatment of the fundamentals of both cognitive radio communications and cognitive networks, together with

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**implementation details Extensive
treatment of the latest standards
and spectrum policy developments
enables the development of
compliant cognitive systems
Strong practical orientation –
through case studies and**

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**descriptions of cognitive radio
platforms and testbeds – shows
how "real world" cognitive radio
systems and network
architectures have been built
The indispensable guide to
wireless communications--now**

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fully revised and updated!

**Wireless Communications:
Principles and Practice, Second
Edition is the definitive modern
text for wireless communications
technology and system design.
Building on his classic first**

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edition, Theodore S. Rappaport covers the fundamental issues impacting all wireless networks and reviews virtually every important new wireless standard and technological development, offering especially comprehensive

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coverage of the 3G systems and wireless local area networks (WLANs) that will transform communications in the coming years. Rappaport illustrates each key concept with practical examples, thoroughly explained

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and solved step by step. Coverage includes: An overview of key wireless technologies: voice, data, cordless, paging, fixed and mobile broadband wireless systems, and beyond Wireless system design fundamentals: channel

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**assignment, handoffs, trunking
efficiency, interference, frequency
reuse, capacity planning, large-
scale fading, and more Path loss,
small-scale fading, multipath,
reflection, diffraction, scattering,
shadowing, spatial-temporal**

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**channel modeling, and
microcell/indoor propagation
Modulation, equalization,
diversity, channel coding, and
speech coding New wireless LAN
technologies: IEEE 802.11a/b,
HIPERLAN, BRAN, and other**

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alternatives New 3G air interface standards, including W-CDMA, cdma2000, GPRS, UMTS, and EDGE Bluetooth wearable computers, fixed wireless and Local Multipoint Distribution Service (LMDS), and other

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**advanced technologies Updated
glossary of abbreviations and
acronyms, and a thorough list of
references Dozens of new
examples and end-of-chapter
problems Whether you're a
communications/network**

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**professional, manager, researcher,
or student, Wireless
Communications: Principles and
Practice, Second Edition gives you
an in-depth understanding of the
state of the art in wireless
technology--today's and**

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tomorrow's.

Wireless technology is a truly revolutionary paradigm shift, enabling multimedia communications between people and devices from any location. It also underpins exciting

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applications such as sensor networks, smart homes, telemedicine, and automated highways. This book provides a comprehensive introduction to the underlying theory, design techniques and analytical tools of

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wireless communications, focusing primarily on the core principles of wireless system design. The book begins with an overview of wireless systems and standards. The characteristics of the wireless channel are then described,

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including their fundamental capacity limits. Various modulation, coding, and signal processing schemes are then discussed in detail, including state-of-the-art adaptive modulation, multicarrier, spread spectrum,

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and multiple antenna techniques. The concluding chapters deal with multiuser communications, cellular system design, and ad-hoc network design. Design insights and tradeoffs are emphasized throughout the book. It contains

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many worked examples, over 200 figures, almost 300 homework exercises, over 700 references, and is an ideal textbook for students. "Provides a solid understanding of the essential concepts of MIMO wireless communications"--

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**From RF Subsystems to 4G
Enabling Technologies
MIMO System Technology for
Wireless Communications
Wireless Communication
Electronics
Recent Advances**

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**Cooperation in Wireless
Networks: Principles and
Applications**

**Academic Press Library in Mobile
and Wireless Communications**

Power Efficiency in
Broadband Wireless

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Communications focuses on the improvement of power efficiency in wireless communication systems, especially of mobile devices. Reviewing cutting-edge techniques for conserving power and

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boosting power efficiency, the book examines various technologies and their impact on consumer devices. It considers each technology, first by introducing the main physical layer components in

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recent wireless communication systems along with their shortcomings, and then proposing solutions for overcoming these shortcomings. The book covers orthogonal frequency division multiplexing (OFDM)

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signal generation and formulation and examines the advantages and disadvantages of OFDM systems compared to alternative multiplexing. It introduces one of the main drawbacks of OFDM systems, peak-to-average power ratio

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(PAPR), and discusses several PAPR techniques. It also explains how to overcome the main drawbacks of real-world OFDM system applications. Considers power amplifier linearization for increasing

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power efficiency and
reducing system costs and
power dissipation Describes
the implementation scenario
of the most promising
linearization technique,
digital predistortion
Presents some experimental

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demonstrations of digital predistortion when the device under test is in the loop Because the most costly device in a communication system that has a direct impact on power efficiency and power consumption is the

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power amplifier, the book details the behavior and characteristics of different classes of power amplifiers. Describing the evolution of the mobile cellular communication system, it details a cost-effective

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technique to help you increase power efficiency, reduce system costs, and prolong battery life in next generation mobile devices. Cooperation in Wireless Networks: Principles and Applications covers the

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underlying principles of cooperative techniques as well as several applications demonstrating the use of such techniques in practical systems. The book is written in a collaborative manner by several authors from Asia,

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America, and Europe. This book puts into one volume a comprehensive and technically rich appraisal of the wireless communications scene from a cooperation point of view.

Wireless

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Communications Principles and
Practice Prentice Hall

Physical layer security has recently become an emerging technique to complement and significantly improve the communication security of wireless networks. Compared

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to cryptographic approaches, physical layer security is a fundamentally different paradigm where secrecy is achieved by exploiting the physical layer properties of the communication system, such as thermal noise,

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interference, and the time-varying nature of fading channels. Written by pioneering researchers, Physical Layer Security in Wireless Communications supplies a systematic overview of the basic

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concepts, recent advancements, and open issues in providing communication security at the physical layer. It introduces the key concepts, design issues, and solutions to physical layer security

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in single-user and multi-user communication systems, as well as large-scale wireless networks. The book starts with a brief introduction to physical layer security. The rest of the book is organized into

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four parts based on the different approaches used for the design and analysis of physical layer security techniques: Information Theoretic Approaches: introduces capacity-achieving methods and coding

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schemes for secure communication, as well as secret key generation and agreement over wireless channels Signal Processing Approaches: covers recent progress in applying signal processing techniques to

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design physical layer
security enhancements Game
Theoretic Approaches:
discusses the applications
of game theory to analyze
and design wireless networks
with physical layer security
considerations Graph

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Theoretic Approaches:
presents the use of tools
from graph theory and
stochastic geometry to
analyze and design large-
scale wireless networks with
physical layer security
constraints Presenting high-

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level discussions along with specific examples, illustrations, and references to conference and journal articles, this is an ideal reference for postgraduate students, researchers, and engineers

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that need to obtain a macro-level understanding of physical layer security and its role in future wireless communication systems. Principles and Applications for Fixed and Wireless Channels

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Modern Telecommunications

Mobile Computing and

Wireless Communications

Wireless Communication

Systems

MIMO Wireless Communications

System and Channel Modelling

with MATLAB®

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Telecommunications is fundamental to modern society, with nearly everyone on the planet having access to a mobile phone, Wi-Fi, or satellite and terrestrial broadcast systems. This book is a concise analysis

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of both the basics of telecommunications as well as numerous advanced systems. It begins with a discussion of why we perform modulation of a carrier signal, continuing with a study of noise affecting all

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telecommunications links, be they digital or analogue in form. Digital communications techniques are examined in Modern Telecommunications: Basic Principles and Practices. Such an examination is crucial

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since radio, television, and satellite broadcasts are transmitted using a digital format. Analogue modulations are also considered. The logic behind such an investigation is because, whereas most broadcast

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systems are moving towards digital transmission, analogue techniques are still very much prevalent (most notably with AM and FM broadcasts). A topic that is often neglected in text books on telecommunications but is at

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the forefront of Modern
Telecommunications concerns
transmission lines. This is an
important area of work since
every length of coaxial cable
used to convey signals from an
antenna to a receiver is a

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transmission line. It is vitally important that a transmission line linking a transmitter to the antenna is matched and this topic is explored in great detail in several chapters dealing with Smith charts. Explains the

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background behind digital TV and radio as well as the legacy of analogue transmissions.

Presents materials in a way that minimizes mathematics, making the topic more approachable and interesting to users. Provides a

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look at familiar systems that readers encounter in their everyday life (including mobile phones, Wi-Fi hotspots, satellites, digital TV, etc.).

Demonstrates techniques and topics through end-of-chapter

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problems. Presents materials in an introductory form, making the information easily understandable and suitable for an undergraduate option course. The author presents a unified treatment of this highly

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interdisciplinary topic to help define the notion of cognitive radio. The book begins with addressing issues such as the fundamental system concept and basic mathematical tools such as spectrum sensing and machine

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learning, before moving on to more advanced concepts and discussions about the future of cognitive radio. From the fundamentals in spectrum sensing to the applications of cognitive algorithms to radio

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communications, and discussion of radio platforms and testbeds to show the applicability of the theory to practice, the author aims to provide an introduction to a fast moving topic for students and researchers seeking to

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develop a thorough understanding of cognitive radio networks. Examines basic mathematical tools before moving on to more advanced concepts and discussions about the future of cognitive radio

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Describe the fundamentals of cognitive radio, providing a step by step treatment of the topics to enable progressive learning
Includes questions, exercises and suggestions for extra reading at the end of each

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chapter Topics covered in the book include: Spectrum Sensing: Basic Techniques; Cooperative Spectrum Sensing Wideband Spectrum Sensing; Agile Transmission Techniques: Orthogonal Frequency Division

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Multiplexing Multiple Input
Multiple Output for Cognitive
Radio; Convex Optimization for
Cognitive Radio; Cognitive Core
(I): Algorithms for Reasoning and
Learning; Cognitive Core (II):
Game Theory; Cognitive Radio

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Network IEEE 802.22: The First
Cognitive Radio Wireless
Regional Area Network
Standard, and Radio Platforms
and Testbeds.

This book, suitable for IS/IT
courses and self study, presents

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a comprehensive coverage of the technical as well as business/management aspects of mobile computing and wireless communications. Instead of one narrow topic, this classroom tested book covers

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the major building blocks (mobile applications, mobile computing platforms, wireless networks, architectures, security, and management) of mobile computing and wireless communications. Numerous real-

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life case studies and examples highlight the key points. The book starts with a discussion of m-business and m-government initiatives and examines mobile computing applications such as mobile messaging, m-commerce,

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M-CRM, M-portals, M-SCM, mobile agents, and sensor applications. The role of wireless Internet and Mobile IP is explained and the mobile computing platforms are analyzed with a discussion of

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wireless middleware, wireless gateways, mobile application servers, WAP, i-mode, J2ME, BREW, Mobile Internet Toolkit, and Mobile Web Services. The wireless networks are discussed at length with a review of

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wireless communication
principles, wireless LANs with
emphasis on 802.11 LANs,
Bluetooth, wireless sensor
networks, UWB (Ultra
Wideband), cellular networks
ranging from 1G to 5G, wireless

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local loops, FSO (Free Space Optics), satellites communications, and deep space networks. The book concludes with a review of the architectural, security, and management/support issues and

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their role in building, deploying and managing wireless systems in modern settings.

This practically-oriented, all-inclusive guide covers all the major enabling techniques for current and next-generation

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cellular communications and wireless networking systems. Technologies covered include CDMA, OFDM, UWB, turbo and LDPC coding, smart antennas, wireless ad hoc and sensor networks, MIMO, and cognitive

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radios, providing readers with everything they need to master wireless systems design in a single volume. Uniquely, a detailed introduction to the properties, design, and selection of RF subsystems and antennas

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is provided, giving readers a clear overview of the whole wireless system. It is also the first textbook to include a complete introduction to speech coders and video coders used in wireless systems. Richly

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illustrated with over 400 figures, and with a unique emphasis on practical and state-of-the-art techniques in system design, rather than on the mathematical foundations, this book is ideal for graduate students and

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researchers in wireless
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wireless and telecom engineers.

Transmission Techniques for
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Principles, Concepts and
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Fundamentals of MIMO Wireless
Communications
Physical Principles of Wireless
Communications, Second Edition
Cognitive Radio
Communications and Networks

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Body-centric wireless networking and communications is an emerging 4G technology for short (1-5 m) and very short (below 1 m) range communications systems,

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used to connect devices worn on (or in) the body, or between two people in close proximity. It has a great potential for applications in healthcare delivery, entertainment,

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*surveillance, and
emergency services. This
book brings together
contributions from a
multidisciplinary team of
researchers in the field
of wireless and mobile*

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communications, signal processing and medical measurements, to present the underlying theory, implementation challenges and applications of this exciting new technology.

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***Topics covered include;
diversity and cooperative
communications in body
area networks ultra-
wideband radio channel
characterisation for body-
centric wireless***

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*communication sparse
characterisation of body-
centric radio channels
antenna / human body
interactions in the 60 GHz
band antennas for
ingestible capsule*

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*telemetry in vivo wireless
channel modelling
diversity and MIMO for
efficient front-end design
of body-centric wireless
communications devices on-
body antennas and radio*

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*channels for GPS
applications textile
substrate integrated
waveguide technology for
the next-generation
wearable microwave systems
ultra-wideband body-*

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***centric networks for
localisation and motion
capture application
downscaling to the nano-
scale in body-centric nano-
networks the road ahead
for body-centric wireless***

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*communication and networks
The first complete guide
to the physical and
engineering principles of
Massive MIMO, written by
the pioneers of the
concept.*

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Publisher Description

***This book provides
comprehensive coverage of
mobile data networking and
mobile communications
under a single cover for
diverse audiences***

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*including managers,
practicing engineers, and
students who need to
understand this industry.
In the last two decades,
many books have been
written on the subject of*

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wireless communications and networking. However, mobile data networking and mobile communications were not fully addressed in a unified fashion. This book fills that gap in the

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literature and is written to provide essentials of wireless communications and wireless networking, including Wireless Personal Area Networks (WPAN), Wireless Local

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***Area Networks (WLAN), and
Wireless Wide Area
Networks (WWAN). The first
ten chapters of the book
focus on the fundamentals
that are required to study
mobile data networking and***

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*mobile communications.
Numerous solved examples
have been included to show
applications of
theoretical concepts. In
addition, unsolved
problems are given at the*

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end of each chapter for practice. (A solutions manual will be available.) After introducing fundamental concepts, the book focuses on mobile networking aspects. Four

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*chapters are devoted on
the discussion of WPAN,
WLAN, WWAN, and
internetworking between
WLAN and WWAN. Remaining
seven chapters deal with
other aspects of mobile*

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*communications such as
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security, cellular network
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*books on wireless
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the latest in standards
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Communications***

Rapid progress in
software, hardware,
mobile networks, and the

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potential of interactive
media poses many
questions for
researchers,
manufacturers, and
operators of wireless
multimedia communication

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systems. Wireless
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Systems: Design,
Analysis, and
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to answer those
questions by not only

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covering the underlying concepts involved in the design, analysis, and implementation of wireless multimedia communication systems, but also by tackling

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specific wireless
multimedia communication
schemes that have proven
to be useful Discusses
important
standardization
processing activities

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regarding wireless
networking Includes
wireless mesh and
multimedia sensor
network architectures,
protocols, and design
optimizations Highlights

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the challenges
associated with meeting
complex connectivity
requirements Contains
numerous figures,
tables, examples,
references, and a

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glossary of acronyms
Providing coverage of
significant
technological advances
in their initial steps
along with a survey of
the fundamental

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principles and
practices, Wireless
Multimedia Communication
Systems: Design,
Analysis, and
Implementation aids
senior-level and

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graduate-level
engineering students and
practicing professionals
in understanding the
processes and furthering
the development of
today's wireless

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also be of great
interest to practising
engineers.

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Molisch, renowned
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has put together the

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comprehensive book,
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The second edition,
which includes a wealth
of new material on
important topics,
ensures the role of the

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text as the key resource
for every student,
researcher, and
practitioner in the
field." –Professor Moe
Win, MIT, USA Wireless
communications has grown

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rapidly over the past decade from a niche market into one of the most important, fast moving industries. Fully updated to incorporate the latest research and

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developments, Wireless
Communications, Second
Edition provides an
authoritative overview
of the principles and
applications of mobile
communication

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technology. The author provides an in-depth analysis of current treatment of the area, addressing both the traditional elements, such as Rayleigh fading,

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BER in flat fading channels, and equalisation, and more recently emerging topics such as multi-user detection in CDMA systems, MIMO systems,

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and cognitive radio. The dominant wireless standards; including cellular, cordless and wireless LANs; are discussed. Topics featured include:

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wireless propagation
channels, transceivers
and signal processing,
multiple access and
advanced transceiver
schemes, and
standardised wireless

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systems. Combines
mathematical
descriptions with
intuitive explanations
of the physical facts,
enabling readers to
acquire a deep

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understanding of the
subject. Includes new
chapters on cognitive
radio, cooperative
communications and
relaying, video coding,
3GPP Long Term

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Evolution, and WiMax;
plus significant new
sections on multi-user
MIMO, 802.11n, and
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material on 'DECT',
solutions manual and
presentation slides for
instructors, appendices,
list of abbreviations
and other useful
resources.