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**This volume presents an
account of some of the
most important work that**

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**has been done on various
research problems in the
theory of polynomials of
one and several
variables and their
applications. It is
dedicated to P L**

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**Chebyshev, a leading
Russian mathematician.
Highly respected authors
have reunited to update
the well known 1981
edition which is still
hailed as one of the**

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**best in its field. This
edition includes recent
antenna innovations and
applications. It
features a succinct
treatment of the finite
difference, time domain**

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**(FDTD) computational
technique. It is also
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physical theory of
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**this timely resource
provides you with
complete and current
details on the theory,
design, and applications
of wireless antennas for
on-body electronic**

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**systems. the Second
Edition offers readers
brand new material on
advances in physical
phantom design and
production, recent
developments in**

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simulation methods and numerical phantoms, descriptions of methods for simulation of moving bodies, and the use of the body as a transmission channel.

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**You also find a
completely revised
chapter on channel
characterization and
antenna design at
microwave frequencies.
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**brings you the state-of-
the-art in existing
applications like
Bluetooth headsets
together with detailed
treatment of techniques,
tools, and challenges in**

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**developing on-body
antennas for an array of
medical, emergency
response, law
enforcement, personal
entertainment, and
military applications on**

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**the horizon. the book
briefs you on energy
propagation around and
into the body and how to
estimate performance of
on-body wireless links,
and then dives into the**

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**nuts-and-bolts of
designing antenna
systems that deliver the
goods. It covers on-body
communication channels
at microwave frequency
bands and at low**

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**frequency bands, as well
as ultra wideband
systems for WPANs and
WBANs. You get details
on body-centric UWB
antennas and channels,
as well as advances in**

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**wearable mobile, EBG,
and "smart fabric"
antennas for cellular
and WLAN communications.
Chapters on telemedicine
applications, such as
remote diagnoses, and**

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**implantable medical
devices cover crucial
propagation issues and
other obstacles that
need to be addressed.
Rounding out the
coverage is a section on**

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**antenna design for body-
sensor networks and
their emerging military
and space applications.
Packed with hands-on
guidance from noted
experts, this volume**

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**will be indispensable
for your efforts in
designing and improving
body-centric
communication systems.
This book presents
selected papers from the**

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**Sixteenth International
Conference on
Intelligent Information
Hiding and Multimedia
Signal Processing, in
conjunction with the
Thirteenth International**

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**Conference on Frontiers
of Information
Technology, Applications
and Tools, held on
November 5–7, 2020, in
Ho Chi Minh City,
Vietnam. It is divided**

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**into two volumes and
discusses the latest
research outcomes in the
field of Information
Technology (IT)
including information
hiding, multimedia**

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**signal processing, big
data, data mining,
bioinformatics,
database, industrial and
Internet of things, and
their applications.
Scientific and Technical**

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**Aerospace Reports
Ultrawideband Antennas
Antenna Theory and
Practice
Papers
Annual Report of the
Langley Research Center**

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Volume Dedicated to the Memory of P.L. Chebyshev (1821-1894)

Most antenna engineers are likely to believe that antennas are one technology that is more or less impervious to the rapidly advancing

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semiconductor industry. However, as demonstrated in this lecture, there is a way to incorporate active components into an antenna and transform it into a new kind of radiating structure that can take advantage of the latest advances in analog circuit design. The approach for

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making this transformation is to make use of non-Foster circuit elements in the matching network of the antenna. By doing so, we are no longer constrained by the laws of physics that apply to passive antennas. However, we must now design and construct very

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touchy active circuits. This new antenna technology is now in its infancy. The contributions of this lecture are (1) to summarize the current state-of-the-art in this subject, and (2) to introduce some new theoretical and practical tools for helping us to

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continue the advancement of this technology.

Design of Ultra Wideband Antenna Matching Networks: via Simplified Real Frequency Technique (SRFT) will open up a new horizon for design engineers, researchers, undergraduate

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and graduate students to construct multi-band and ultra wideband antenna matching networks for antennas which in turn will push the edge of technology to manufacture new generation of complex communication systems beyond microwave frequencies

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both in commercial and military line. In Design of Ultra Wideband Antenna Matching Networks, many real life examples are presented to design antenna matching networks over HF and cellular commercial multi-band frequencies. For each example, open

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MatLab source codes are provided so that the reader can easily generate and verify the results of the examples included in the book.

Fiber optic cables are an attractive alternative to conventional coaxial cables and waveguide beamforming

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networks because they offer larger bandwidth capabilities, immunity to electromagnetic interference, increased temperature tolerance, and smaller transmission losses.

Antenna Design for Mobile Devices
John Wiley & Sons

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Innovations in Electrical and Electronic
Engineering

Broadband Planar Antennas

Design and Applications

Index

Reconfigurable Antennas

Antenna Design for Narrowband IoT:

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Design, Analysis, and Applications

The increasing demand for wireless communications has revolutionised the lifestyle of today's society and one of the key components of wireless technology is antenna design.

Broadband planar antennas are the

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newest generation of antennas boasting the attractive features required, such as broad operating bandwidth, low profile, light weight, low cost and ease of integration into arrays or Radio Frequency (RF) circuits, to make them ideal components of modern

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communications systems. Research into small and broadband antennas has been spurred by the rapid development of portable wireless communication devices such as cell phones, laptops and personal digital assistants. This all-encompassing volume, Broadband

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Planar Antennas: Design and Applications, systematically describes the techniques for all planar antennas from microstrip patch antennas, suspended plate antennas and planar inverted-L/F antennas to planar dipole antennas. Also discussed are some of

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the most recent outcomes such as broadband antenna issues in promising ultra-wideband applications. Clearly describes the fundamentals of planar antennas and categorises them according to their radiation characteristics Introduces the advanced

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progress in broadband planar antennas
for modern wireless communications
Includes a wealth of case studies,
design guidelines, figures and tables
This text is essential reading for
antenna, RF and microwave engineers
and manufacturers within the

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telecommunications industry. Its highly accessible approach will also appeal to researchers, postgraduate students and academic lecturers.

A practical book written for engineers who design and use antennas The author has many years of hands on

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experience designing antennas that were used in such applications as the Venus and Marsmissions of NASA The book covers all important topics of modern antenna designfor communications Numerical methods will be included but only as much as areneeded for

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practical applications

Presents an overview of CubeSat
antennas designed at the Jet Propulsion
Laboratory (JPL)

CubeSats—nanosatellites built to
standard dimensions of 10cm x 10 cm
x cm—are making space-based Earth

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science observation and interplanetary space science affordable, accessible, and rapidly deployable for institutions such as universities and smaller space agencies around the world. CubeSat Antenna Design is an up-to-date overview of CubeSat antennas

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designed at NASA's Jet Propulsion Laboratory (JPL), covering the systems engineering knowledge required to design these antennas from a radio frequency and mechanical perspective. This authoritative volume features contributions by leading experts in the

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field, providing insights on mission-critical design requirements for state-of-the-art CubeSat antennas and discussing their development, capabilities, and applications. The text begins with a brief introduction to CubeSats, followed by a detailed

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survey of low-gain, medium-gain, and high-gain antennas. Subsequent chapters cover topics including the telecommunication subsystem of Mars Cube One (MarCO), the enabling technology of Radar in a CubeSat (RainCube), the development of a one-

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meter mesh reflector for telecommunication at X- and Ka-band for deep space missions, and the design of multiple metasurface antennas.

Written to help antenna engineers to enable new CubeSate NASA missions, this volume: Describes the selection of

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high-gain CubeSat antennas to address specific mission requirements and constraints for instruments or telecommunication Helps readers learn how to develop antennas for future CubeSat missions Provides key information on the effect of space

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environment on antennas to inform design steps Covers patch and patch array antennas, deployable reflectarray antennas, deployable mesh reflector, inflatable antennas, and metasurface antennas CubeSat Antenna Design is an important resource for

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antenna/microwave engineers, aerospace systems engineers, and advanced graduate and postdoctoral students wanting to learn how to design and fabricate their own antennas to address clear mission requirements. This book provides current R&D trends

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and novel approaches in design and analysis of broadband, multiband, and smart antennas for 5G and B5G mobile and wireless applications, as well as the identification of integration techniques of these antennas in a diverse range of devices. The book presents theoretical

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and experimental approaches to help the reader in understanding the unique design issues and more advanced research. Moreover, the book includes chapters on the fundamentals of antenna theory. The book is pertinent to professionals and researchers

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working in the field of antenna engineering; it is written for graduate students, researchers, academics, and industry practitioners who want to improve their understanding in the current research trends in design analysis of broadband, multiband, and

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smart antennas for wireless
applications.

Antenna Theory

Antenna Design for Cognitive Radio

Super Dual Auroral Radar Network
(SuperDARN)

Topics in Polynomials of One and

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Several Variables and Their
Applications

FCC Record

Microstrip Patch Antennas: A
Designer's Guide

*The first and only comprehensive text
on substrate-integrated mmW antenna*

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technology, state-of-the-art antenna design, and emerging wireless applications Substrate-Integrated Millimeter-Wave Antennas for Next-Generation Communication and Radar Systems elaborates the most important topics related to

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*revolutionary millimeter wave
(mmW) technology. Following a clear
description of fundamental concepts
including substrate-integrated
waveguides and loss analysis, the text
treats key design methods, prototyping
techniques, and experimental setup*

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and testing. The authors also highlight applications of mmW antennas in 5G wireless communication and next-generation radar systems. Readers are prepared to put techniques into practice through practical discussions of how to set up testing for impedance

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matching, radiation patterns, gain from 24GHz up to 325 GHz, and textures for specific designs. This book will bring readers current, addressing state-of-the-art designs and recent progress in substrate-integrated mmW antennas for

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*emerging wireless applications.
Substrate-Integrated Millimeter-Wave
Antennas for Next-Generation
Communication and Radar Systems is
the first comprehensive text on the
topic, allowing readers to quickly
master mmW technology. This book:*

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Introduces basic concepts such as metamaterials Huygens's surface, zero-index structures, and pattern synthesis Describes prototyping in the form of fabrication based on printed-circuit-board, low-temperature-co-fired-ceramic and micromachining

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Explores applications for next-generation radar and imaging systems such as 24-GHz and 77-GHz vehicular detection radar systems
Elaborates design methods including waveguide-based feeding network, three-dimensional feeding structure,

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dielectric loaded aperture antenna element, and low-sidelobe synthesis
The millimeter wave is one of today's most important emerging technologies. This book provides graduate students, researchers, and engineers with the knowledge they need to deploy mmW

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systems and develop new antenna designs with low cost, low loss, and low complexity.

Expanded and updated, this practical guide is a one-stop design reference containing all an engineer needs when designing antennas Integrates state-of-

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the-art technologies with a special section for step-by-step antenna design Features up-to-date bio-safety and electromagnetic compatibility regulation compliance and latest standards Newly updated with MIMO antenna design, measurements and

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requirements Accessible to readers of many levels, from introductory to specialist Written by a practicing expert who has hired and trained numerous engineers

The discipline of antenna theory has experienced vast technological

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changes. In response, Constantine Balanis has updated his classic text, Antenna Theory, offering the most recent look at all the necessary topics. New material includes smart antennas and fractal antennas, along with the latest applications in wireless

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communications. Multimedia material on an accompanying CD presents PowerPoint viewgraphs of lecture notes, interactive review questions, Java animations and applets, and MATLAB features. Like the previous editions, Antenna Theory, Third

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Edition meets the needs of electrical engineering and physics students at the senior undergraduate and beginning graduate levels, and those of practicing engineers as well. It is a benchmark text for mastering the latest theory in the subject, and for

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better understanding the technological applications. An Instructor's Manual presenting detailed solutions to all the problems in the book is available from the Wiley editorial department. This one-of-a-kind new resource presents cognitive radio from an

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antenna design perspective and introduces the concept of cognitive radio as a protocol that benefits from under-utilized regions of the spectrum. This book covers topics that govern the operation of a cognitive radio and discusses the use of

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reconfigurable antennas, reconfigurable filtennas, and MIMO antennas for cognitive radio. The analysis and design of different antenna systems are presented, compared and evaluated. New approaches to improve spectrum

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efficiency are explored by demonstrating how to design software controlled cognitive radio antenna systems. This new resource shows how to communicate using either interweave or underlay cognitive radio and demonstrates the benefits

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of designing appropriate sensing and communicating antennas. The first part of the book introduces the basic concept of cognitive radio and discusses the difference between cognitive radio and software defined radio from the RF system 's

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perspective. The second part of the book discusses the main antenna design requirements, procedures and challenges for cognitive radio. The third part of the book introduces new trends in cognitive radio implementation such as the

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implementation of MIMO antennas on cognitive radio, the use of machine learning techniques to optimize the performance of a cognitive radio environment, and the implementation of cognitive radar and cognitive radio in space.

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Theory and Design

Design, Analysis, and Applications

Low-cost Smart Antennas

*Antennas and Propagation for Body-
Centric Wireless Communications,
Second Edition*

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Antenna Theory and Design

Sustaining current increases in wireless data rates has driven engineers of all related backgrounds to seek fresh and innovative approaches in wireless

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system design. With the advancement of RF switching technology, transceiver architectures, and digital signal processing capabilities, the pressure now falls on the antenna

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designs for future broadband and adaptive wireless services. The rst part of the work focuses on enhancing the bandwidth of low-pro le patch antennas for circularly-polarized (CP) wireless

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systems. We start with an in-depth examination of the CP patch antenna cavity model and reveal that traditional circularly polarized (CP) patch antennas are not being utilized to their full

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potential for bandwidth. Some new modifications to enable broader bandwidths are proposed. A high-performance antenna for future Mars Rover missions is also discussed, and a

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novel CP Half E-shaped patch antenna subarray was developed and prototyped to demonstrate its use. Another concept uses composite right/left-handed (CRLH) transmission lines towards

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creating wideband CP arrays. Our resulting array prototype using a CRLH transmission line feed network showed an overall bandwidth of 60%, which is a formidable increase compared to

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designs using conventional quarter-wavelength transmission lines. In the second part of this work, recon gurable antenna functionalities for software and cognitive radios are

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pursued. With the development of practical reconfigurable antenna simulation models in conjunction with nature-inspired optimization techniques, two reconfigurable

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urable E-shaped patch antenna implementations are evaluated for potential use as frequency or polarization recon gurable antennas. This is particularly useful for systems wanting

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to achieve unidirectional patterns with a low-profile antenna. Both the frequency and polarization reconfigurable designs were optimized, fabricated, and characterized through

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measurement. Our frequency reconfigurable E-shaped patch antenna design is able to support an overall bandwidth of 50% by incorporating MEMS switches. The CP reconfigurable

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gurable version design provided CP bandwidths of 17% and 20% for an element and array concept, respectively. Lastly, a rejection recon gurable array element is developed. The

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design uses a reconfigurable frequency rejection slot within a wideband monopole antenna, and some simulation and experimental measurement studies are undertaken. By integrating

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another recon gurable lter, a higher-order lter capability is achieved, leading to stronger rejection levels from strong blockers.

Based on Bahl and Bhartia's popular 1980 classic,

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Microstrip Antennas, this all new book provides the detail antenna engineers and designers need to design any type of microstrip antenna. After addressing essential microchip antenna theory,

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the authors highlight current design and engineering practices, emphasizing the most pressing issues in this area, including broadbanding, circular polarization, and active

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microstrip antennas in particular. Special design challenges, ranging from dual polarization, high bandwidth, and surface wave mitigation, to choosing the proper substrate, and

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shaping an antenna to achieve desired results are all covered.

Ultrawideband (UWB) technology, positioned as the cutting edge of research and development, paves the way

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to meet the emerging demands set by broadband wireless applications, such as high-speed data transmission, medical imaging, short-range radars, electromagnetic testing, etc.

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This breathtaking resource builds upon the basics of UWB technology to provide a complete compilation of figures of merit along with a vital state-of-the-art of the different antenna

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alternatives that are to be employed according to the specific application. Without excessive recourse to mathematics, this volume emphasizes on the UWB antenna design and equips

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readers with practical prediction techniques based on simple formulas and models. The big picture of UWB antenna technology would not be complete without addressing its

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applications, and this will serve to provide consultants with key clues for market gap analysis. Containing over 150 supporting illustrations and figures, this comprehensive overview of

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UWB technology, antenna design and applications is a vital source of information and reference for R&D organizations, researchers, practitioners, consultants, RF professionals and

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communication engineers.
Contents: Introduction to Ultrawideband Systems (C Ling) Figures of Merit for UWB Antennas (D Puente & D Valderas) Classification of UWB Antennas (D Puente &

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D Valderas)UWB Monopole
Antenna Analysis (D
Valderas & J I Sancho)UWB
Monopole Antenna
Bandwidth Synthesis (D
Valderas & J I Sancho)UWB
Monopole Antenna

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Bandwidth Maximisation (D
Valderas & J I Sancho)UWB
Folded Monopole Antennas
(D Valderas & J I
Sancho)Revolution Monopole
Antennas (D Valderas & J I
Sancho)Printed Circuit

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Monopoles (D Valderas & J I
Sancho) Applications of UWB
Antennas (X-D Chen)

Readership: R&D
organizations, researchers,
practitioners, consultants, RF
professionals and

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communication engineers.

Keywords: Ultrawideband

Antennas; Broadband

Antennas; Monopole

Antennas; UWB; Wireless

Communications; Medical

Imaging; EM Testing; Short-

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Range

Communications; Radar Key

Features: Provides a

complete compilation of
design alternatives and

figures of merit for UWB

antennas Includes a

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comprehensive model for UWB antennas Gives a coverage on the tips and tricks for UWB antenna design (3D and printed). Contains over 150 illustrations and

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figuresOffers an overview of
UWB wireless technology
and applications for research
planningReviews: "This
applications-oriented book is
very well written, with good
technical depth, limited

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mathematical theory, and a wealth of practical information for UWB antenna design, and it should be a welcome addition to your library. Any of our readers who either design antennas

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for ultrabroadband wireless applications or want to learn about this in-demand technology will find this book essential to their work."IEEE Electrical Insulation Magazine "This is an

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excellent book for those
designing UWB antennas and
for understanding the
operation of these antennas.
It is loaded with up-to-date
useful information regarding
UWB and would make a

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great addition to the UWB
researcher's library." IEEE
Electrical Insulation
Magazine

This book presents the
technology of millimetre
waves and Terahertz (THz)

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antennas. It highlights the importance of moderate and high-gain aperture antennas as key devices for establishing point-to-point and point-to-multipoint radio links for far-field and near-

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field applications, such as high data-rate communications, intelligent transport, security imaging, exploration and surveillance systems. The book provides a comprehensive overview of

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the key antenna technologies developed for the mm wave and THz domains, including established ones – such as integrated lens antennas, advanced 2D and 3D horn

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antennas, transmit and reflect arrays, and Fabry-Perot antennas – as well as emerging metasurface antennas for near-field and far-field applications. It describes the pros and cons

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of each antenna technology
in comparison with other
available solutions, a
discussion supplemented by
practical examples
illustrating the step-by-step
implementation procedures

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for each antenna type. The measurement techniques available at these frequency ranges are also presented to close the loop of the antenna development cycle. In closing, the book outlines

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future trends in various antenna technologies, paving the way for further developments. Presenting content originating from the five-year ESF research networking program

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'Newfocus' and co-authored by the most active and highly cited research groups in the domain of mm- and sub-mm-wave antenna technologies, the book offers a valuable guide for

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researchers and engineers in
both industry and academia.
Design of Ultra Wideband
Antenna Matching Networks
Innovative Antenna Designs
for Broadband Circularly-
Polarized Wireless Systems

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and Software Radios
Modern Antenna Design
The Handbook of Antenna
Design
Via Simplified Real
Frequency Technique
Analysis and Design

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In internet of things (IoT) applications, wireless connectivity is a key factor, particularly those that need to be in transition, or where wired communication is not effective or practicable. For top-notch connectivity of the Narrowband IoT (NB-IoT)

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standard, the 900MHz frequency is generally used by most of the vendors. The radiation quality not only depends on the antenna geometry but on immediate surroundings. Additionally, the IoT product itself and the user of the product can strongly affect the resulting

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radiation pattern and other characteristics of the antenna. On the other hand, a suitable antenna should also have high efficiency and adequate bandwidth covering the desired frequency range. To take these effects into consideration, the whole IoT

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product must be included in the antenna simulations. Antenna Design for Narrowband IoT: Design, Analysis, and Applications provides the antenna design concept for narrowband internet of things applications, performs a detailed analysis of the antenna, and

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discusses the various antenna design concepts and structures. Covering a range of topics such as antenna design and antenna measurement systems, this book is ideal for industry professionals, research scholars, academicians, professors, and students.

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This book presents the latest techniques for the design of antenna, focusing specifically on the microstrip antenna. The authors discuss antenna structure, defected ground, MIMO, and fractal design. The book provides the design of microstrip antenna in terms of latest

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applications and uses in areas like IoT and device-to-device communication. The book also provides the current methods and techniques used for the enhancement of the performance parameters of the microstrip antenna. Chapters enhance the knowledge and

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skills of students and researchers in the latest in the communications world like IoT, D2D, satellite, wearable devices etc. The authors discuss applications such as microwave imaging, medical implants, hyperthermia treatments, and wireless wellness monitoring and how a decrease

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in size of antenna help facilitate application potential. Provides the latest techniques used for the design of antenna in terms of its structure, defected ground, MIMO and fractal design; Outlines steps to resolve issues with designing antenna, including the latest

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design and design parameters for microstrip antenna; Presents the design of conformal and miniaturized antenna structures for various applications.

Table of contents

Telecommunications Engineer's Reference Book maintains a balance

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between developments and established technology in telecommunications. This book consists of four parts. Part 1 introduces mathematical techniques that are required for the analysis of telecommunication systems. The physical environment of

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telecommunications and basic principles such as the teletraffic theory, electromagnetic waves, optics and vision, ionosphere and troposphere, and signals and noise are described in Part 2. Part 3 covers the political and regulatory environment of the telecommunications

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industry, telecommunication standards, open system interconnect reference model, multiple access techniques, and network management. The last part deliberates telecommunication applications that includes synchronous digital hierarchy, asynchronous transfer

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mode, integrated services digital network, switching systems, centrex, and call management. This publication is intended for practicing engineers, and as a supplementary text for undergraduate courses in telecommunications.

A Comprehensive Compilation of

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Decisions, Reports, Public Notices, and
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Communications Commission of the
United States

U.S. Government Research Reports

Antenna Design with Fiber Optics

Antennas with Non-Foster Matching

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Networks

Proceedings of ICEEE 2022, Volume 2
Aperture Antennas for Millimeter and
Sub-Millimeter Wave Applications

This Book Has Been Designed
For Both The Undergraduate
And Postgraduate In Electronic

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Engineering, Electrical
Communication Engineering And
Electrical Engineering, And For
The Postgraduate In Physics
Specialising In Electronics. It Is A
Compact And Comprehensive
Text And It Stresses The Basic

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Principles Of Antenna Theory
And Practice. Starting With
Electromagnetics And The
Theory Of Radiation Which
Forms The Basis Of Antenna
Theory, It Treats In Detail
Different Types Of Antennas Like

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The Linear Antenna, The
Cylindrical Antenna, The
Biconical Antenna, The Loop
Antenna, The Helical Antenna,
Slot And Microstrip Antennas,
Horn Antennas, Reflector
Antennas, Lens Antennas, Leaky

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Wave And Surface-Wave
Antennas Including Dielectric
And Dielectric Loaded Antennas,
Wide Band Antennas And Some
Modern Special Types Of
Antennas. There Are Also
Chapters On Antenna Synthesis,

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Numerous Illustrations Add To
The Value Of The Text. In This
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Been Added. The Book
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Knowledge Of Mathematics
Which A Student Of
Undergraduate Engineering Or
Undergraduate Physics Has
Required.

The desired objective of this
book is to investigate diversity

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and mutual coupling effects on MIMO antenna designs for WLAN/WiMAX/LTE applications, controlled with diversity and ground modification techniques including equivalent circuit diagrams. Diversity techniques in

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MIMO antennas leading to the performance improvement ratings are demonstrated and deliberated. The book contributes towards the development of 2:1 VSWR MIMO antennas with diversity

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techniques for indoor/outdoor applications for high data rate, QOS, and SNR. The improved MIMO antenna structures are investigated and presented in this book including part of massive MIMO to provide the

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important aspects of emerging technology. Aimed at researchers, professionals and graduate students in electrical engineering, electromagnetics, communications and signal processing including antenna

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theory and design, smart antennas, communication systems, this book: Investigates real time MIMO antenna designs for WLAN/WiMAX/LTE applications. Covers effects of ECC, MEG, TARC, and

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equivalent circuit. Addresses the coupling and diversity aspects of antenna design problem for MIMO systems. Focus on the MIMO antenna designs for the real time applications. Exclusive chapter on 5G Massive MIMO

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along with case studies
throughout the book.

An authoritative guide to the
latest developments for the
design of low-cost smart
antennas Traditional smart
antenna systems are costly,

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consume great amounts of power and are bulky size. Low-cost Smart Antennas offers a guide to designing smart antenna systems that are low cost, low power, and compact in size and can be applied to

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satellite communications, radar and mobile communications. The authors — noted experts on the topic — provide introductions to the fundamental concepts of antennas, array antennas and smart antennas. The book fills a

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gap in the literature by presenting the design techniques of low-cost radio frequency (RF) smart antennas as well as approaches for implementing the hardware of the antenna and the beamforming network (BFN). A

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comprehensive and accessible book, *Low-cost Smart Antennas* not only presents an up-to-date review of the topic but includes illustrative case studies that contain in-depth explorations of the theory and technology of

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smart antennas. While other resources highlight the software (signal processing algorithms), this book is unique by focusing on the antenna hardware. This important book: Offers an introduction to the most recent

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developments of the design of low-cost smart antennas and their applications Presents a unique book that puts the focus on antenna hardware Includes a variety of case studies that clearly demonstrate the

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implementation of current design techniques Introduces both fundamental theories as well as more advanced topics Written for students and researchers and antenna engineers, Low-cost Smart Antennas explores the

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most recent advances in the field with an emphasis on antenna hardware.

Modern society thrives on communication that is instant and available at all times, a constant exchange of information

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that encompasses everything from video streaming to GPS navigation. Experts even suggest that in the near future everything from our cars to our kitchen appliances will be connected to the internet, a feat that would not

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be possible without advanced wireless technology. Wideband, Multiband, and Smart Reconfigurable Antennas for Modern Wireless Communications showcases current trends and novel

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approaches in the design and analysis of the antennas that make wireless applications possible, while also identifying unique integration opportunities for antennas and wireless applications to work together. By

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featuring both theoretical and experimental approaches to integration, this book highlights specific design issues to assist a wide-range of readers including students, researchers, academics, and industry

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practitioners. This publication features chapters on a broad scope of topics including algorithms and antenna optimization, wireless infrastructure development, wireless applications of

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intelligent algorithms, antenna architecture, and antenna reconfiguration techniques.

MIMO Antennas for Wireless Communication

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Antenna Design for Mobile Devices

This book offers an up-to-date and comprehensive review of modern antenna systems and their applications in the fields of contemporary wireless systems. It constitutes a useful resource of new

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material, including stochastic versus ray tracing wireless channel modeling for 5G and V2X applications and implantable devices. Chapters discuss modern metalens antennas in microwaves, terahertz, and optical domain. Moreover, the book presents new material on antenna arrays for 5G massive MIMO

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beamforming. Finally, it discusses new methods, devices, and technologies to enhance the performance of antenna systems.

This book presents the fundamental background theory and analytical techniques of antenna design. It deals with a very wide range of antenna types,

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operating from very low frequencies to millimetre waves.

This lecture explores the emerging area of reconfigurable antennas from basic concepts that provide insight into fundamental design approaches to advanced techniques and examples that offer important new capabilities for next-

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generation applications. Antennas are necessary and critical components of communication and radar systems, but sometimes their inability to adjust to new operating scenarios can limit system performance. Making antennas reconfigurable so that their behavior can adapt with changing system requirements

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or environmental conditions can ameliorate or eliminate these restrictions and provide additional levels of functionality for any system. For example, reconfigurable antennas on portable wireless devices can help to improve a noisy connection or redirect transmitted power to conserve battery life. In large

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phased arrays, reconfigurable antennas could be used to provide additional capabilities that may result in wider instantaneous frequency bandwidths, more extensive scan volumes, and radiation patterns with more desirable side lobe distributions. Written for individuals with a range of experience, from those with

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only limited prior knowledge of antennas to those working in the field today, this lecture provides both theoretical foundations and practical considerations for those who want to learn more about this exciting subject. Contents:

Introduction / Definitions of Critical Parameters for Antenna Operation /

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*Linkage Between Frequency Response and
Radiation Characteristics: Implications
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