

Antenna Design For Mobile Devices

Ramona Trestian

Antenna Design for Mobile Devices Zhijun Zhang, 2017-06-13 Expanded and updated, this practical guide is a one-stop design reference containing all an engineer needs when designing antennas Integrates state-of-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 requirements Accessible to readers of many levels, from introductory to specialist Written by a practicing expert who has hired and trained numerous engineers

Practical Microstrip and Printed Antenna Design Anil Pandey, 2019-03-31 This comprehensive resource presents antenna fundamentals balanced with the design of printed antennas. Over 70 antenna projects, along with design dimensions, design flows and antenna performance results are discussed, including antennas for wireless communication, 5G antennas and beamforming. Examples of smartphone antennas, MIMO antennas, aerospace and satellite remote sensing array antennas, automotive antennas and radar systems and many more printed antennas for various applications are also included. These projects include design dimensions and parameters that incorporate the various techniques used by industries and academia. This book is intended to serve as a practical microstrip and printed antenna design guide to cover various real-world applications. All Antenna projects discussed in this book are designed, analyzed and simulated using full-wave electromagnetic solvers. Based on several years of the author's research in antenna design and development for RF and microwave applications, this book offers an in-depth coverage of practical printed antenna design methodology for modern applications.

Mobile Antenna Systems Handbook Kyohei Fujimoto, 2008 This extensively revised and expanded edition of the Artech bestseller Mobile Antenna Systems Handbook puts the very latest technologies, design and analysis procedures, and applications at your command. It features all-new chapters on smart antennas, MIMO systems, and antennas for recently deployed mobile systems such as RFID, UWB, and terrestrial digital TV broadcasting, and provides a wealth of problem-solving guidance for tackling everything from propagation obstacles to SAR safety issues. Like the previous editions, this ultimate one-stop reference is designed to save you a mountain of work. You get hands-on expertise for every type of mobile antenna base station and terminal system, including its theory of operation, application strengths and weaknesses,

performance characteristics, design procedures, analysis techniques, and optimization methods, complete with examples and worked-out calculations at every step. The material is further clarified with 567 diagrams, charts, and photos, bringing mobile antenna selection, design, and construction into clear focus. What's more, this resource includes a detailed glossary of antennas and their applications to help you zero in on the right antenna for any job with a flip of the page. From integrating MIMO antennas into handsets, to expanding system capacities with smart antennas, this information-packed resource helps you evaluate design and configuration options, locate crucial data and calculations, perform key analyses, and solve challenges standing in the way of your desired results. It serves as an indispensable reference, helping you design more powerful, versatile, and compact wireless mobile antenna systems.

Antenna Design for Cognitive Radio Youssef Tawk, Joseph Costantine, Christos Christodoulou, 2016-06-30 This one-of-a-kind new resource presents cognitive radio from an 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 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 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 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 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 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.

Antenna Designs for NFC Devices Dominique Paret, 2016-01-05 Near-field communication (NFC) enables the exchange of information between close devices. The antenna is the indispensable element to transform an electronic device into an NFC system. For both theory and practice, this book presents in detail the design technologies of different antennas. They must meet the NFC ISO 18 092 and 21 481 standards as well as specifications by the NFC Forum for industrial applications, by EMVCo for banking applications and payments, and by CEN for public transport. In a particularly pedagogic way, *Antenna Designs for NFC Devices* enables designers of communicating object systems and the Internet of Things (IoT) to have access to the mysteries of the design of NFC antennas.

Microwave and Millimeter-wave Antenna Design for 5G Smartphone Applications Wonbin Hong, Chow-Yen

Desmond Sim,2023-01-05 In-depth and practical coverage of design considerations for 5G antennas In Microwave and Millimeter-wave Antenna Design for 5G Smartphone Applications, two distinguished researchers deliver a holistic, multidisciplinary approach to antenna design methodologies. The book covers approaches ranging from sub-6GHz microwave to the millimeter-wave spectrum, explaining how microwave and millimeter-wave 5G antennas coexist and function, both independently and collaboratively. The book offers coverage of key considerations for designing millimeter-wave 5G antennas within space-constrained mobile devices, as well as practical concerns, like cost, fabrication yield, and heat dissipation. Readers will also find explorations of the likely future directions of 5G antenna evolution, as well as: A thorough introduction to basic concepts in 5G FR1 Band mobile antenna design, including discussions of antenna placement, element design, and topologies Comprehensive explorations of antenna feeding mechanisms and impedance matching, including chassis considerations and effects Practical discussions of frequency tunable millimeter-wave 5G antenna-in-package Fulsome treatments of compact millimeter-wave 5G antenna solutions and millimeter-wave antenna-on-display technologies for 5G mobile devices Perfect for antenna, microwave, communications, and radio-frequency engineers, Microwave and Millimeter-wave Antenna Design for 5G Smartphone Applications will also benefit graduate students, policymakers, regulators, and researchers with an interest in communications and antennas.

Mobile and Wireless Communications with Practical Use-Case Scenarios Ramona Trestian,2022-12-22 The growing popularity of advanced multimedia-rich applications along with the increasing affordability of high-end smart mobile devices has led to a massive growth in mobile data traffic that puts significant pressure on the underlying network technology. However, no single network technology will be equipped to deal with this explosion of mobile data traffic. While wireless technologies had a spectacular evolution over the past years, the present trend is to adopt a global heterogeneous network of shared standards that enables the provisioning of quality of service and quality of experience to the end-user. To this end, enabling technologies like machine learning, Internet of Things and digital twins are seen as promising solutions for next generation networks that will enable an intelligent adaptive interconnected environment with support for prediction and decision making so that the heterogeneous applications and users' requirements can be highly satisfied. The aim of this textbook is to provide the readers with a comprehensive technical foundation of the mobile communication systems and wireless network design, and operations and applications of various radio access technologies. Additionally, it also introduces the reader to the latest advancements in technologies in terms of Internet of Things ecosystems, machine learning and digital twins for IoT-enabled intelligent environments. Furthermore, this textbook also includes practical use-case scenarios using Altair WinProp Software as well as Python, TensorFlow and Jupyter as support for practice-based laboratory sessions.

Advances in Network and Communications Engineering 2 Steven Furnell,Paul Dowland,2005

The World of Applied Electromagnetics Akhlesh Lakhtakia,Cynthia M. Furse,2017-08-08 This book commemorates

four decades of research by Professor Magdy F. Iskander (Life Fellow IEEE) on materials and devices for the radiation, propagation, scattering, and applications of electromagnetic waves, chiefly in the MHz-THz frequency range as well on electromagnetics education. This synopsis of applied electromagnetics, stemming from the life and times of just one person, is meant to inspire junior researchers and reinvigorate mid-level researchers in the electromagnetics community. The authors of this book are internationally known researchers, including 14 IEEE fellows, who highlight interesting research and new directions in theoretical, experimental, and applied electromagnetics.

Antenna Architectures for Future Wireless Devices Shibani Kishen Koul, Karthikeya G. S., 2022-01-03 This book presents the design requirements of antenna integration for modern commercial devices such as smartphones, dongles, and access points. Practical use-case scenarios of smartphone and the design process of the antenna system for the same are highlighted. The feasibility of scaling up sub-6GHz to mmWave antennas is also discussed in detail followed by a plethora of design examples which could be panel mounted to modern-day commercial smartphones. The unique requirement of gain switchability is introduced with feasible practical antenna designs. High efficiency antennas for 5G base stations is introduced along with a design example on planar all-metallic antenna. Beam switchability requirement for base station is illustrated with a couple of compact antenna system examples. Variety of feeding techniques for mmWave antennas is elaborated in this book. Finally, low-cost antenna designs for future wireless devices are illustrated.

Antennas for Portable Devices Zhi Ning Chen, 2007-04-04 Offers a comprehensive and practical reference guide to antenna design and engineering for portable devices. Antennas are often the most bulky components in many portable wireless devices such as mobile phones. Whilst the demand for ever smaller and more powerful wireless devices increases, as does the importance of designing and engineering smaller antennas to fit these devices. *Antennas for Portable Devices* provides a complete and cutting-edge guide to the design and engineering of small antennas for portable electronic devices such as mobile phone handsets, laptop computers, RFID (radio frequency identification), microwave thermal therapies devices, wearable devices, and UWB (ultra-wideband) based consumer devices. The book addresses practical engineering issues that antenna professionals have to deal with. It explains the immediate demands for existing systems; discusses the antenna technology for the latest and emerging applications, and gives comprehensive coverage of hot topics in the wireless industry. Issues including design considerations, engineering design, measurement setup and methodology, and practical applications are all covered in depth. *Antennas for Portable Devices*: Covers antennas for all modern portable wireless devices from handsets, RFID tags, laptops, wearable sensors, UWB-based wireless USB dongles and handheld microwave treatment devices. Explains how to design and engineer applications for miniaturization of antenna technology, utilising practical case studies to provide the reader with an understanding of systems and design skills. Links the basic antenna theory, with design methodology, and engineering design. Is amply illustrated with numerous figures and data tables of

antenna designs to aid understanding Features contributions from industry and research experts in antenna technology and applications This invaluable resource will provide a comprehensive overview of miniaturizing antenna technology for antenna engineers in industry, and R&D organizations, graduate students, consultants, researchers, RF professionals, technical managers, as well as practitioners working in the area of consumer electronics, RF systems, wireless communications, or biomedical devices.

Antenna Fundamentals for Legacy Mobile Applications and Beyond Issa Elfergani,Abubakar Sadiq Hussaini,Jonathan Rodriguez,Raed Abd-Alhameed,2017-10-03 This book highlights technology trends and challenges that trace the evolution of antenna design, starting from 3rd generation phones and moving towards the latest release of LTE-A. The authors explore how the simple monopole and whip antenna from the GSM years have evolved towards what we have today, an antenna design that is compact, multi-band in nature and caters to multiple elements on the same patch to provide high throughput connectivity. The scope of the book targets a broad range of subjects, including the microstrip antenna, PIFA antenna, and the monopole antenna to be used for different applications over three different mobile generations. Beyond that, the authors take a step into the future and look at antenna requirements for 5G communications, which already has the 5G drive in place with prominent scenarios and use-cases emerging. They examine these, and put in place the challenges that lie ahead for antenna design, particularly in mm-Wave design. The book provides a reference for practicing engineers and under/post graduate students working in this field.

Small Antenna Design Douglas B. Miron,2006-03-22 As wireless devices and systems get both smaller and more ubiquitous, the demand for effective but small antennas is rapidly increasing. Small Antenna Design describes the theory behind effective small antenna design and give design techniques and examples for small antennas for different operating frequencies. Design techniques are given for the entire radio spectrum, from a very hundred kilohertz to the gigahertz range.Unlike other antenna books which are heavily mathematical and theoretical, Douglas Miron keeps mathematics to the absolute minimum required to explain design techniques. Ground planes, essential for operation of many antenna designs, are extensively discussed. - Author's extensive experience as a practicing antenna design engineer gives book a strong hands-on emphasis - Covers antenna design techniques from very low frequency (below 300 kHz) to microwave (above 1 GHz) ranges - Special attention is given to antenna design for mobile/portable applications such as cell phones, WiFi, etc

Wideband, Multiband, and Smart Antenna Systems Mohammad Abdul Matin,2021-09-21 This book provides current R&D trends 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 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 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 smart antennas for wireless applications.

Microstrip Antenna Design for Wireless Applications Praveen Kumar Malik, Sanjeevikumar Padmanaban, Jens Bo Holm-Nielsen, 2021-11-29 This book focuses on recent advances in the field of microstrip antenna design and its applications in various fields including space communication, mobile communication, wireless communication, medical implants and wearable applications. Scholars as well as researchers and those in the electronics/ electrical/ instrumentation engineering fields will benefit from this book. The book shall provides the necessary literature and techniques using which to assist students and researchers would design antennas for the above- mentioned applications and will ultimately enable users to take measurements in different environments. It is intended to help scholars and researchers in their studies, by enhancing their the knowledge and skills in on the latest applications of microstrip antennas in the world of communications such as world like IoT, D2D, satellites and wearable devices, to name a few. FEATURES Addresses the complete functional framework workflow in printed antenna design systems Explores the basic and high-level concepts, including advanced aspects in planer design issues, thus serving as a manual for those in the the industry while also assisting beginners Provides the latest techniques used for antennas in terms of structure, defected ground, MIMO and fractal designs Discusses case studies related to data-intensive technologies in microchip antennas in terms of the most recent applications and similar uses for the Internet of Things and device-to-device communication

Revolution in Your Palm: A Journey Through the History of Mobile Phones Kenneth Yates, Embark on an enthralling journey through the evolution of mobile communication with 'Revolution in Your Palm: A Journey Through the History of Mobile Phones'. From the humble beginnings of brick-sized handheld devices to the sleek, powerful smartphones of today, this captivating exploration delves into every facet of mobile technology. Discover the pioneering innovations of industry giants, the cultural shifts spurred by mobile connectivity, and the profound impact on society worldwide. With insightful reflections on the past and visionary glimpses into the future, this book is a must-read for anyone fascinated by the remarkable story of how mobile phones have reshaped our world.

Broadband Planar Antennas Zhi Ning Chen, Michael Yan Wah Chia, 2006-05-01 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 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 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 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 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 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 telecommunications industry. Its highly accessible approach will also appeal to researchers, postgraduate students and academic lecturers.

Next Generation of Internet of Things Raghvendra Kumar,Prasant Kumar Pattnaik,João Manuel R. S. Tavares,2022-09-26 This book includes selected papers from the International Conference on Next Generation of Internet of Things (ICNGIoT 2022), organized by Department of Computer Science and Engineering, School of Engineering, GIET University, Gunupur, Odisha, India, during February 3-4, 2022. The book covers topics such as IoT network design and architecture, IoT network virtualization, IoT sensors, privacy and security for IoT, SMART environment, social networks, data science and data analytics, cognitive intelligence and augmented intelligence, and case studies and applications.

China Satellite Navigation Conference (CSNC) 2020 Proceedings: Volume III Jiadong Sun,Changfeng Yang,Jun Xie,2020-06-06 China Satellite Navigation Conference (CSNC 2020) Proceedings presents selected research papers from CSNC 2020 held during 22nd-25th November in Chengdu, China. These papers discuss the technologies and applications of the Global Navigation Satellite System (GNSS), and the latest progress made in the China BeiDou System (BDS) especially. They are divided into 13 topics to match the corresponding sessions in CSNC2020, which broadly covered key topics in GNSS. Readers can learn about the BDS and keep abreast of the latest advances in GNSS techniques and applications.

Modern Antenna Handbook Constantine A. Balanis,2011-09-20 The most up-to-date, comprehensive treatment of classical and modern antennas and their related technologies Modern Antenna Handbook represents the most current and complete thinking in the field of antennas. The handbook is edited by one of the most recognizable, prominent, and prolific authors, educators, and researchers on antennas and electromagnetics. Each chapter is authored by one or more leading international experts and includes cover-age of current and future antenna-related technology. The information is of a practical nature and is intended to be useful for researchers as well as practicing engineers. From the fundamental parameters of antennas to antennas for mobile wireless communications and medical applications, Modern Antenna Handbook covers everything professional engineers, consultants, researchers, and students need to know about the recent developments and the future direction of this fast-paced field. In addition to antenna topics, the handbook also covers modern technologies such as metamaterials, microelectromechanical systems (MEMS), frequency selective surfaces (FSS), and radar cross sections (RCS)

and their applications to antennas, while five chapters are devoted to advanced numerical/computational methods targeted primarily for the analysis and design of antennas.

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