

Planar Antennas for Wireless Communications 1st Edition Kin-Lu Wong



Planar Antennas For Wireless Communications

Yahya Rahmat-Samii, Jaehoon Kim



Planar Antennas For Wireless Communications:

Planar Antennas for Wireless Communications Kin-Lu Wong, 2003-01-06 The latest text in the Wiley Series in Microwave and Optical Engineering The first comprehensive resource on planar antenna designs Planar antennas are the newest generation of antennas boasting such attractive features as low profile light weight low cost and ease of integration into arrays These features make them ideal components of modern communications systems particularly in cellular and WLAN applications Consequently many novel designs of planar antennas for related applications have come into being within the last two to three years Until now these designs were only accessible to current and prospective antenna designers through journal articles conference papers and patent descriptions Planar Antennas for Wireless Communications organizes today's most important planar antenna designs into one easy to use reference In this the latest addition to the Wiley Series in Microwave and Optical Engineering the author presents more than seventy advanced planar antenna designs along with detailed design considerations and experimental results including PIFAs for internal mobile phone antennas Very low profile monopoles for internal mobile phone antennas Base station antennas for cellular systems Planar antennas for WLAN applications DR antennas for wireless communications Integration of antennas for different operating bands Each chapter features a multitude of illustrations for the geometries and experimental results of the featured designs as well as a complete list of related references for further study making the book an invaluable design resource for antenna scientists and engineers alike

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

Compact Antennas for Wireless Communications and Terminals Jean-Marc Laheurte, 2012-12-27 Compact Antennas for

Wireless Communications and Terminals deals with compact microwave antennas and more specifically with the planar version of these antennas. Planar antennas are the most appropriate type of antenna in modern communication systems and more generally in all applications requiring miniaturization, integration and conformation such as in mobile phone handsets. The book is suitable for students, engineers and scientists eager to understand the principles of planar and small antennas, their design and fabrication issues and modern aspects such as UWB antennas, reconfigurable antennas and diversity issues.

Planar Antennas Praveen Kumar Malik, 2021-10-21. This comprehensive reference text discusses fundamental concepts, applications, design techniques and challenges in the field of planar antennas. The text focuses on recent advances in the field of planar antenna design and their applications in various fields of research including space communication, mobile communication, wireless communication and wearable applications. This resource presents planar antenna design concepts, methods and techniques to enhance the performance parameters and applications for IoTs and device-to-device communication. The latest techniques used in antenna design, including their structures, defected ground, MIMO and fractal design, are discussed comprehensively. The text will be useful for senior undergraduate students, graduate students and academic researchers in fields including electrical engineering, electronics and communication engineering.

Reconfigurable Active and Passive Planar Antennas for Wireless Communication Systems Shibani Kishen Koul, Rajesh K. Singh, 2022-10-14. This book presents state-of-the-art trends in reconfigurable active and passive planar antennas and their applications in wireless communication systems operating in the frequency band 5–6 GHz. Due to various key features such as multifunction, antenna design, compactness, planar nature and low cost, these technologies are becoming popular for current and future wireless applications. This book discusses different novel antenna designs and their working principles in detail. The modern and future wireless systems require wideband antennas to accommodate various channels in a single band or in separate bands. The carrier aggregation (CA) has been introduced in the modern wireless systems such as LTE advanced systems and 5G/6G. In CA, a device can use several channels for transmission and reception. The used channels can exist in the same frequency band (intra-band CA) or in distinct bands (inter-band CA). To accommodate more channels, more bandwidth is required within the operating band. For portable devices, circularly polarized (CP) antennas are more advantageous over linearly polarized antennas since in CP antennas there is low risk of misalignment and hence encountering interference. Circularly polarized antenna also provides higher link reliability for the portable devices. To provide high data rates, more bandwidth is needed to accommodate more channels. Various multifunction compact and wideband antennas for plethora of applications are addressed in detail in this book. The scope of developing reconfigurable active antennas for application in beam switching, beam steering, wireless charging, security systems etc. is described. This book concludes by giving glimpses of antenna requirements for future wireless communication systems.

Printed Antennas for Wireless Communications
Rod Waterhouse, 2008-03-11. Printed antennas, also known as microstrip antennas, have a variety of beneficial properties.

including mechanical durability conformability compactness and cheap manufacturing costs As such they have a range of applications in both the military and commercial sectors and are often mounted on the exterior of aircraft and spacecraft as well as incorporated into mobile radio communication devices Printed Antennas for Wireless Communications offers a practical guide to state of the art printed antenna technology used for wireless systems Contributions from renowned global experts within both academia and industry enable the reader to design printed antennas and associated technologies and offer valuable insights into important breakthroughs in these areas Divided into 3 sections covering fundamental wideband printed radiating elements for wireless systems small printed antennas for wireless systems and advanced concepts and applications in wireless systems Provides experimental data and applies theoretical models to present design performance trends and to give the reader an in depth coverage of the area Presents summaries of different approaches used in solving wireless systems such as WPAN wireless personal area network and MIMO multi input multi output offering the reader an overall perspective of the pros and cons of each Focuses on practical design examples and real world solutions Printed Antennas for Wireless Communications offers an excellent insight on printed antennas from the theoretical to the practical hence it will appeal to practicing design engineers within commercial and governmental military organisations as well as postgraduate students and researchers in communications technology

Planar Antennas Praveen Kumar Malik, 2021-10-21 This comprehensive reference text discusses fundamental concepts applications design techniques and challenges in the field of planar antennas The text focuses on recent advances in the field of planar antenna design and their applications in various fields of research including space communication mobile communication wireless communication and wearable applications This resource presents planar antenna design concepts methods and techniques to enhance the performance parameters and applications for IoTs and device to device communication The latest techniques used in antenna design including their structures defected ground MIMO and fractal design are discussed comprehensively The text will be useful for senior undergraduate students graduate students and academic researchers in fields including electrical engineering electronics and communication engineering

Compact Slot Array Antennas for Wireless Communications Alan J. Sangster, 2018-11-11 This book describes and provides design guidelines for antennas that achieve compactness by using the slot radiator as the fundamental building block within a periodic array rather than a phased array It provides the basic electromagnetic tools required to design and analyse these novel antennas with sample calculations where relevant The book presents a focused introduction and valuable insights into the relevant antenna technology together with an overview of the main directions in the evolving technology of compact planar arrays While the book discusses the historical evolution of compact array antennas its main focus is on summarising the extensive body of literature on compact antennas With regard to the now ubiquitous slot radiator it seeks to demonstrate how despite significant antenna size reductions that at times even seem to defy the laws of physics desirable radiation pattern properties can be preserved This is supported by an examination

of recent advances in frequency selective surfaces and in metamaterials which can if handled correctly be used to facilitate physics defying designs The book offers a valuable source of information for communication systems and antenna design engineers especially thanks to its overview of trends in compact planar arrays yet will also be of interest to students and researchers as it provides a focused introduction and insights into this highly relevant antenna technology Antenna Technology for Terahertz Wireless Communication Uri Nissanov, Ghanshyam Singh, 2023-07-11 This book discusses terahertz THz wireless communication particularly for 6G enabling technologies including antenna design and channel modeling with channel characteristics for the success of reliable 6G wireless communication The authors describe THz microstrip antenna technologies with different substrates and introduce some useful substrates to reduce the conductor and substrate losses at the THz frequencies The discussion also includes the design of the THz unit cell microstrip antenna and the techniques to boost the microstrip antennas gain directivity and impedance bandwidth BW which influence the wireless communication range which is highly affected by the path losses of atmospheric conditions and transmit and receive data rates respectively Moreover this book discusses the multi beam and beamforming THz antenna technologies with the multi user multiple input multiple output MU MIMO features Additionally this book describes the reconfigurable capabilities artificial intelligence machine learning and deep learning technologies that will influence the success of 6G wireless communication and the authors suggest a remedy for integrating multiple radios into the system on chip SoC design **Planar Antenna** Praveen Kumar Malik, 2021 This book focuses on recent advances in the field of planar antenna design and their applications in various fields of research including space communication mobile communication wireless communication and wearable applications Planar antennas are also used in medical applications including microwave imaging medical implants hyperthermia treatments and wireless wellness monitoring However most of these applications still use bulky antenna systems which hamper their efficiency and applicability despite high application potential The primary objective of recent antenna research is the reduction in size and complexity Students scholars and researchers are used to doing mathematical modelling and pattern measurements in simulated environments only Our aim is to show academic and industry researchers as well as advanced students and lecturers in electronics electrical and instrumentation engineering how to do measurements in real world environments This book will present planar antenna design concepts methods and techniques to enhance performance parameters as well as applications for IoTs and device to device communication We will provide the latest techniques used for the design of antennas in terms of their structures defected ground MIMO and fractal design This book will also address the specific steps to resolve issues in designing antennas and how to design conformal and miniaturized antenna structures for various applications *Multifunctional and Multiband Planar Antennas for Emerging Wireless Applications* Jayshri Kulkarni, Chow-Yen-Desmond Sim, Jawad Yaseen Siddiqui, Anisha M. Apte, Ajay Kumar Poddar, Ulrich L. Rohde, 2023-12-19 This work focuses on designing multiband printed single Multiple Input Multiple Output

MIMO CP antennas for WLAN V2X and NR Sub 6GHz 5G applications It also delves into the design and implementation of a Four Port MIMO antenna for wireless applications addressing theoretical foundations and challenges Additionally the book explores critical aspects of software defined radios SDR including modulation signal processing radio systems TX RX blocks SDR enabled phased arrays and beam hopping techniques with relevance to 5G 6G and IoT applications Features Explores advancements in planar monopole antennas including bandwidth enhancement techniques Analyzes innovative antenna design structures like miniaturized and conformal monopole antennas and discusses modeling and implementation Spotlights WLAN and Wi Fi 6 E antenna design for next gen laptops with practical insights Addresses the use of triple band antenna arrays for MIMO applications in laptops Focuses on planar antenna advancements for diverse wireless bands and applications Explores multiband printed single MIMO CP antennas for WLAN V2X and NR Sub 6GHz 5G Covers the design and implementation of a Four Port MIMO antenna for wireless applications including theoretical foundations and challenges Explores SDR modulation signal processing radio systems TX RX blocks SDR enabled phased arrays and beam hopping techniques for 5G 6G and IoT applications This book is aimed at graduate students and researchers in electrical and electronic engineering antennas and wireless communication systems

Handbook of Antennas in Wireless

Communications Lal Chand Godara, 2018-10-03 The move toward worldwide wireless communications continues at a remarkable pace and the antenna element of the technology is crucial to its success With contributions from more than 30 international experts the Handbook of Antennas in Wireless Communications brings together all of the latest research and results to provide engineering professionals and students with a one stop reference on the theory technologies and applications for indoor hand held mobile and satellite systems Beginning with an introduction to wireless communications systems it offers an in depth treatment of propagation prediction and fading channels It then explores antenna technology with discussion of antenna design methods and the various antennas in current use or development for base stations hand held devices satellite communications and shaping beams The discussions then move to smart antennas and phased array technology including details on array theory and beamforming techniques Space diversity direction of arrival estimation source tracking and blind source separation methods are addressed as are the implementation of smart antennas and the results of field trials of systems using smart antennas implemented Finally the hot media topic of the safety of mobile phones receives due attention including details of how the human body interacts with the electromagnetic fields of these devices Its logical development and extensive range of diagrams figures and photographs make this handbook easy to follow and provide a clear understanding of design techniques and the performance of finished products Its unique comprehensive coverage written by top experts in their fields promises to make the Handbook of Antennas in Wireless Communications the standard reference for the field

Implanted Antennas in Medical Wireless Communications Yahya Rahmat-Samii, Jaehoon

Kim, 2022-06-01 One of the main objectives of this lecture is to summarize the results of recent research activities of the

authors on the subject of implanted antennas for medical wireless communication systems It is anticipated that ever sophisticated medical devices will be implanted inside the human body for medical telemetry and telemedicine To establish effective and efficient wireless links with these devices it is pivotal to give special attention to the antenna designs that are required to be low profile small safe and cost effective In this book it is demonstrated how advanced electromagnetic numerical techniques can be utilized to design these antennas inside as realistic human body environment as possible Also it is shown how simplified models can assist the initial designs of these antennas in an efficient manner *Printed Planar Antenna Designs Based on Metamaterial Unit- Cells for Broadband Wireless Communication Systems* Mohammad Alibakhshikenari, 2017 With the continuing development of mobile communications the communication standards which include operating frequencies and protocols are also evolving In order to accommodate these and future changes antennas with characteristics of wideband and multiband are becoming a necessity Hence wireless communications industries are now demanding broadband antennas that are low profile and low volume structures Conventional planar microstrip antennas are the most common form of printed antennas that have been used for many years This is because these antennas offer advantages of low cost conformability and ease of manufacturing however the bandwidth of these types of antennas is highly restricted Among different types of planar antennas the slotted structure that offers the simplest structure is compact and radiates omnidirectionally these features make it an excellent candidate for broadband applications **Millimetre Wave Antennas for Gigabit Wireless Communications** Kao-Cheng Huang, David J. Edwards, 2008-10-13 Complete and comprehensive application focused reference on millimetre wave antennas Millimetre Wave Antennas for Gigabit Wireless Communications covers a vast wealth of material with a strong focus on the current design and analysis principles of millimetre wave antennas for wireless devices It provides practising engineers with the design rules and considerations required in designing antennas for the terminal The authors include coverage of new configurations with advanced angular and frequency filtering characteristics new design and analysis techniques and methods for filter miniaturization The book reviews up to date research results and utilizes numerous design examples to emphasize computer analysis and synthesis whilst also discussing the applications of commercially available software Key Features Advanced and up to date treatment of one of the fastest growing fields of wireless communications Covers topics such as Gigabit wireless communications and its required antennas passive and active antenna design and analysis techniques multibeam antennas and MIMO IEEE 802.15.3c WiMedia and advanced materials and technologies Offers a practical guide to integrated antennas for specific configurations requirements Addresses a number of complex real world problems that system and antenna engineers are going to face in millimetre wave communications industry and provides solutions Contains detailed design examples drawings and predicted performance This book is an invaluable tool for antenna professionals engineers designers and developers microwave professionals wireless communication system professionals and industries with microwave and

millimetre wave research projects Advanced students and researchers working in the field of millimetre wave engineering will also find this book very useful *Implanted Antennas in Medical Wireless Communications* Yahya

Rahmat-Samii, Jaehoon Kim, 2006-12-01 One of the main objectives of this lecture is to summarize the results of recent research activities of the authors on the subject of implanted antennas for medical wireless communication systems It is anticipated that ever sophisticated medical devices will be implanted inside the human body for medical telemetry and telemedicine To establish effective and efficient wireless links with these devices it is pivotal to give special attention to the antenna designs that are required to be low profile small safe and cost effective In this book it is demonstrated how advanced electromagnetic numerical techniques can be utilized to design these antennas inside as realistic human body environment as possible Also it is shown how simplified models can assist the initial designs of these antennas in an efficient manner

Antennas for Base Stations in Wireless Communications Zhi Ning Chen, Kwai-Man Luk, 2009-07-01 Design Antennas for Modern Wireless Communications Systems Written by a global team of expert contributors this book offers complete details on the wide range of antennas used in today s wireless communication networks Coverage includes the most popular applications in WWAN GSM CDMA and WCDMA WLAN Bluetooth and WiFi WMAN WiMAX and WPAN UWB and RFID Antennas for Base Stations in Wireless Communications presents a full picture of modern base station antenna technology from fundamentals and parameters to engineering and advanced solutions and highlights new technologies in antenna design with enhanced performance Real world case studies provide you with practical examples that can be applied to your own system designs Apply measurement techniques for various parameters Enable frequency re use and channel capacity optimization in mobile radio networks Design antennas for mobile communications CDMA GSM and WCDMA Implement advanced antenna technologies for GSM base stations Facilitate enhanced system capacity Design unidirectional antennas including directed dipole wideband patch and complementary antennas Optimize antenna designs for WLAN WiFi applications Design antennas for Wireless Personal Area Network WPAN applications including RFID and UWB

Design of Ultra Wideband Antenna Matching Networks Binboga Siddik Yarman, 2008-08-25 Design of Ultra Wideband Antenna Matching Networks via Simplified Real Frequency Technique SRFT will open up a new horizon for design engineers researchers undergraduate 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 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 MatLab source codes are provided so that the reader can easily generate and verify the results of the examples included in the book Antenna Theory and Design Warren L. Stutzman, Gary A.

Thiele, 2012-05-22 Stutzman s 3rd edition of Antenna Theory and Design provides a more pedagogical approach with a

greater emphasis on computational methods New features include additional modern material to make the text more exciting and relevant to practicing engineers new chapters on systems low profile elements and base station antennas organizational changes to improve understanding more details to selected important topics such as microstrip antennas and arrays and expanded measurements topic

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 bio medical devices

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