

# Microstrip Antenna Design Handbook Artech House An

**CAD of Microstrip Antennas for Wireless Applications** Robert A. Sainati.1996 Increasing demand for commercial applications requiring small, low-cost, easy-to-use RF/microwave systems is driving innovations in antenna technology. This how-to book explains why microstrip antennas are the solution for the future.

**Phased Array Antenna Handbook** Robert J. Mailloux.2005-01-01 This thoroughly revised edition of the Artech House classic, Phased Array Antenna Handbook, offers the most up-to-date and broadest view of array antennas and systems. Supported with over 350 equations and more than 270 illustrations, the book offers complete design details that allow practitioners to size an array system with speed and confidence.--BOOK JACKET.Title Summary field provided by Blackwell North America, Inc. All Rights Reserved

Reflectarray Antennas: Analysis, Design, Fabrication, and Measurement Jafar Shaker, Mohammad Reza Chaharmir, Jonathan Ethier.2013-11-01 Reflectarray antennas refer to the class of radiating structures that are comprised of an array of radiating elements, re-radiating the energy that is impinged on them from one or more radiating feeds that are located in free space. The constituent radiators that build a reflectarray can be shaped to bring about some flexibility in the way that antenna operates such as multi band/polarization operation. The printed nature of these elements allow integration of active elements that can further enhance the functionality of the reflectarray. This allows for capabilities such as power amplification, adaptive beam shaping, and beam switching. This resource presents readers with design guidelines along with an ample amount of material on different types of reflectarrays and methods of analysis. This book begins with introductory material on reflectarray antennas and progresses to the presentation of state-of-the-art research in the field. A direct comparison with conventional reflector antennas is provided, focusing on conventional efficiency figures of reflectors. Moreover, this book offers remarks on the future direction of reflectarray research and also potential applications of the technology in face of the emergence of new fabrication techniques to accommodate both passive and active elements.

Analysis, Design, and Measurement of Small and Low-profile Antennas Kazuhiro Hirasawa.1992 Tutorial in nature, this book is based on a series of papers presented at a workshop in Japan. It constitutes the first single-volume guide to the basic methods of analyzing microstrip patch antennas, and the characteristics of rectangular, circular and arbitrarily shaped patch antennas. Supported by 273 equations, tables and illustrations this book should prove a useful tool for anyone doing applied research in antennas.

**Foundations of Antenna Engineering: A Unified Approach for Line-of-Sight and Multipath** Per-Simon Kildal.2015-06-01 This is the first textbook that contains a holistic treatment of antennas both for traditional antennas mounted on masts (Line-of-Sight antenna systems) and for small antennas used on modern wireless devices such as smart phones being subject to signal variations (fading) due to multipath propagation. The focus is on characterization, as well as describing classical antennas by modern complex vector theory - thereby linking together many disciplines such as electromagnetic theory, classical antenna theory, wave propagation, and antenna system performance. Overall, this book represents a rethinking of the way basic antenna theory is presented. The book contains many references to important old and new papers and books on the analysis and design of the most useful antenna types, for the most interested readers.

*Mobile Antenna Systems Handbook* Kyohei Fujimoto.2008 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.

**Handbook of Reflector Antennas and Feed Systems Volume III: Applications of Reflectors** Sudhakar Rao, Lotfollah Shafai, Satish K. Sharma. 2013-06-01 This is the first truly comprehensive and most up-to-date handbook available on modern reflector antennas and feed sources for diversified space and ground applications. There has never been such an all-encompassing reflector handbook in print, and no currently available title offers coverage of such recent research developments. The Handbook consists of three volumes. Volume III focuses on the range of reflector antenna applications, including space, terrestrial, and radar. The intent of this book volume is to provide practical applications and design information on reflector antennas used for several communications systems. This book covers recent developments of reflector antennas used for satellite communications, terrestrial communications, and remote sensing applications. New subjects are introduced for the first time, including satellite antennas, Terahertz antennas, PIM, multipaction, corona, deployable mesh reflector antennas, and mechanical aspects of reflector antennas. In addition, this book contains a separate topic on integrated feed assembly for reflector antennas covering analysis, design, fabrication, and test.

**Advancement in Microstrip Antennas with Recent Applications** Ahmed Kishk. 2013-03-06 The book discusses basic and advanced concepts of microstrip antennas, including design procedure and recent applications. Book topics include discussion of arrays, spectral domain, high Tc superconducting microstrip antennas, optimization, multiband, dual and circular polarization, microstrip to waveguide transitions, and improving bandwidth and resonance frequency. Antenna synthesis, materials, microstrip circuits, spectral domain, waveform evaluation, aperture coupled antenna geometry and miniaturization are further book topics. Planar UWB antennas are widely covered and new dual polarized UWB antennas are newly introduced. Design of UWB antennas with single or multi notch bands are also considered. Recent applications such as, cognitive radio, reconfigurable antennas, wearable antennas, and flexible antennas are presented. The book audience will be comprised of electrical and computer engineers and other scientists well versed in microstrip antenna technology.

*Microstrip Antennas* I. J. Bahl, P. Bhartia. 1980

**Microstrip Antennas Modeling for Recent Applications** Amel Boufrioua. 2016 Today, the state of the art antenna technology allows the use of different types and models of antennas, depending on the area of application considered. The rapid progress in wireless communications requires the development of lightweight, low profile, small size, flush-mounted and wideband multi-frequency planar antennas. This book reviews recent advances in designs of various microstrip patch antenna configurations. Microstrip patch antennas have been widely used in the range of microwave frequencies over the past twenty-five years, and over the past few years, single-patch antennas have been extensively used in various communication systems due to their compactness, economical efficiency, light weight, low profile and conformability to any structure. The main drawback to implementing these antennas in many applications is their limited bandwidth. However, the most important challenge in microstrip antenna design is to increase the bandwidth and gain. Theoretical study of various patch antenna configurations will be carried out in this book. The study is performed by using full wave analysis and analytical techniques for the characterization of these structures. Several techniques are used in this book to achieve multi-band performances such as multilayer stacked patches, multiple patches and insertion of slots of different shapes and sizes in the patch antennas. In addition, some novel patch antenna designs for modern applications are given, and some challenges of patch antenna designs are addressed. This book is divided into seven chapters and presents new research in this dynamic field.

**RF and Microwave Coupled-line Circuits** Rajesh Mongia, I. J. Bahl, P. Bhartia. 1999 An overview of coupled line fundamentals, this text explains their applications in designing microwave and millimetre-wave components used in today's personal communication, audio/visual, microwave, radar,

satellite communications, and other systems. The text provides readers with an understanding of stripline, microstrip, monolithic and coplanar technologies. Emphasizing design, analysis and modern fabrication techniques and practices, it provides knowledge and guidance in helping them develop compact and low-cost design solutions and components, such as loose and tight couplers, filters, hybrids, transformers and baluns.

**Millimeter-wave Microstrip and Printed Circuit Antennas** P. Bhartia, K. V. S. Rao, R. S. Tomar. 1991 Provides information needed to design millimeter-wave microstrip and printed circuit antennas from analysis methods and materials selection to antennas for particular applications. Special focus is given to the issues that impact the ability to scale microwave frequency designs to the millimeter-wave

**Handbook of Microstrip Antennas** James R. James, Peter S. Hall. 1989 The book reviews developments in the following fields: circular microstrip antennas; microstrip patch antennas; circular polarisation and bandwidth; microstrip dipoles; multilayer and parasitic configurations; wideband flat dipole and short-circuit microstrip patch elements and arrays; numerical analysis; multiport network approach; transmission-line model; rectangular microstrip antennas; low-cost printed antennas; printed phased-array antennas; circularly polarised antenna arrays; microstrip antenna feeds; substrate technology; computer-aided design of microstrip and triplate circuits; resonant microstrip antenna elements and arrays for aerospace applications; mobile and satellite systems; conical conformal microstrip tracking antenna; and microstrip field diagnostics.

**Microstrip and Printed Antenna Design** Randy Bancroft. 2009-06-30 Offering extensive coverage of microstrip antennas, from rectangular and circular to broadband and dual-band, this text gives a complete introduction to useful designs and the implementation aspects of these types of antennas.

**Microstrip Patch Antennas: A Designer's Guide** Rod Waterhouse. 2013-04-17 This useful tool provides the reader with a current overview of where microstrip patch antenna technology is at, and useful information on how to design this form of radiator for their given application and scenario. Practical design cases are provided for each goal.

**Advancement in Microstrip Antennas with Recent Applications** Ahmed Kishk. 2013-03-06 The book discusses basic and advanced concepts of microstrip antennas, including design procedure and recent applications. Book topics include discussion of arrays, spectral domain, high Tc superconducting microstrip antennas, optimization, multiband, dual and circular polarization, microstrip to waveguide transitions, and improving bandwidth and resonance frequency. Antenna synthesis, materials, microstrip circuits, spectral domain, waveform evaluation, aperture coupled antenna geometry and miniaturization are further book topics. Planar UWB antennas are widely covered and new dual polarized UWB antennas are newly introduced. Design of UWB antennas with single or multi notch bands are also considered. Recent applications such as, cognitive radio, reconfigurable antennas, wearable antennas, and flexible antennas are presented. The book audience will be comprised of electrical and computer engineers and other scientists well versed in microstrip antenna technology.

**Microstrip Antenna Design** K. C. Gupta, Abdelaziz Benalla. 1988

**Switched Parasitic Antennas for Cellular Communications** David V. Thiel, Stephanie Smith. 2002 Presenting information typically not found in other books, the authors explore the numerous advantages of these antennas - including high-speed signal acquisition, fixed input impedance, low loss, and small footprint. Professionals find practical design examples, strategies, and optimization methods for designing economical switched parasitic antennas for applications such as direction finding and multibeam communications systems. Cutting-edge technologies and applications such as MEMS RF switches are also discussed.--Jacket.

**Compact and Broadband Microstrip Antennas** Kin-Lu Wong. 2004-04-07 Compact microstrip antennas are of great importance in meeting the miniaturization requirements of modern portable communications equipment This book is a comprehensive treatment of design techniques and test

data for current compact and broadband microstrip designs Summarizes the work of the author and his graduate students who have published over 80 refereed journal articles on the subject in the past few years Advanced designs reported by various other prestigious antenna designers are incorporated as well

**Microstrip Antenna Design Handbook** Ramesh Garg.2001 Based on Bahl and Bhartia's popular 1980 classic, *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, the authors highlight current design and engineering practices, emphasizing the most pressing issues in this area, including broadbanding, circular polarization, and active microstrip antennas in particular. Special design challenges, ranging from dual polarization, high bandwidth, and surface wave mitigation, to choosing the proper substrate, and shaping an antenna to achieve desired results are all covered. *Design of Nonplanar Microstrip Antennas and Transmission Lines* Kin-Lu Wong.2004-04-07 A one-stop reference to the design and analysis of nonplanar microstrip structures. Owing to their conformal capability, nonplanar microstrip antennas and transmission lines have been intensely investigated over the past decade. Yet most of the accumulated research has been too scattered across the literature to be useful to scientists and engineers working on these curved structures. Now, antenna expert Kin-Lu Wong compiles and organizes the latest research results and other cutting-edge developments into an extensive survey of the characteristics of microstrip antennas mounted on canonical nonplanar surfaces. Demonstrating a variety of theoretical techniques and deducing the general characteristics of nonplanar microstrip antennas from calculated results, Wong thoroughly addresses the problems of cylindrical, spherical, and conical structures and gives readers powerful design and optimization tools. Up-to-date topics range from specific applications of spherical and conical microstrip arrays to the curvature effects on the analysis of cylindrical microstrip lines and coplanar waveguides. With 256 illustrations and an exhaustive list of references, *Design of Nonplanar Microstrip Antennas and Transmission Lines* is an indispensable guide for antenna designers in wireless and personal communications and in radar systems, and an invaluable reference for researchers and students interested in this important technology.

**Electromagnetics, Microwave Circuit and Antenna Design for Communications Engineering** Peter Russer.2003 If you're looking for a clear, comprehensive overview of basic electromagnetics principles and applications to antenna and microwave circuit design for communications, this authoritative book is your best choice. Including concise explanations of all required mathematical concepts needed to fully comprehend the material, the book is your complete resource for understanding electromagnetics in current, emerging and future broadband communication systems, as well as high-speed analogue and digital electronic circuits and systems.

**Microstrip and Printed Antennas: Applications-Based Designs** 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.

*Microstrip Antenna* J. R. James, Peter S. Hall, Colin Wood.1986 In the past few years, the concept of creating microwave antennas using microstrip has

attracted increasing attention and viable practical designs are now emerging. The purpose of this monograph is to present the reader with an appreciation of the underlying physical action, up-to-date theoretical treatments, useful antenna design approaches and the overall state-of-the-art situation. The emphasis is on antenna engineering design, but to achieve this goal it has been necessary to delve into the behaviour of microstrip in a much wider sense and also include aspects of electromagnetic analysis. As a consequence, the monograph will also be of interest to microstrip circuit designers and to some extent those seeking electromagnetic problems of a challenging nature. The astronomical progress in miniaturising and integrating electronic circuits in the past decade has recently created a positive demand for a new generation of antenna systems. In principle, microstrip antennas are thin planar configurations that are lightweight, low cost, easy to manufacture and can be made conformal with the surfaces of vehicles, missiles etc. The compatibility of microstrip antennas with integrated electronics is another great advantage. However, the microstrip wavetrapping effects inhibit the radiation mechanism and must be taken into account in antenna design. Wave-trapping effects in substrates involve the study of surface waves and discontinuities in open waveguide structures. The microstrip antenna designer must therefore encompass many more effects than previously considered by microstrip circuit designers. It is for these reasons that the scope of this monograph is necessarily somewhat wider than the title may suggest. The ten chapters are a blend of introductory, practical and theoretical treatments and likely future developments are also highlighted. A good selection of past and current references are given and each chapter concludes with a helpful summary comment.

Broadband Patch Antennas Jean-François Zürcher, Fred E. Gardiol. 1995 This book describes both theoretical and practical aspects of advanced broadband patch antennas, providing a comprehensive review of the state of the art in the field. Modern antenna techniques are discussed for single patches, dual linear and circular polarizations designs, and arrays used in mobile communications. Includes 88 equations, 115 figures, and 200 references.

*Dielectric Resonator Antenna Handbook* Aldo Petosa. 2007 Enhance any display with these beautiful borders that feature full-color photographs of panoramic scenes. Eight 24 x 6 borders connect seamlessly for a total length of 16 feet. For use with Grades PreK-5.

**Electromagnetics and Antenna Technology** Alan J. Fenn. 2017-12-31 Written by a leading expert in the field, this practical new resource presents the fundamentals of electromagnetics and antenna technology. This book covers the design, electromagnetic simulation, fabrication, and measurements for various types of antennas, including impedance matching techniques and beamforming for ultrawideband dipoles, monopoles, loops, vector sensors for direction finding, HF curtain arrays, 3D printed nonplanar patch antenna arrays, waveguides for portable radar, reflector antennas, and other antennas. It explores the essentials of phased array antennas and includes detailed derivations of important field equations, and a detailed formulation of the method of moments. This resource exhibits essential derivations of equations, providing readers with a strong foundation of the underpinnings of electromagnetics and antennas. It includes a complete chapter on the details of antenna and electromagnetic test and measurement. This book explores details on 3D printed non-planar circular patch array antenna technology and the design and analysis of a planar array-fed axisymmetric gregorian reflector. The lumped-element impedance matched antennas are examined and include a look at an analytic impedance matching solution with a parallel LC network. This book provides key insight into many aspects of antenna technology that have broad applications in radar and communications.

Handbook of Reflector Antennas and Feed Systems Volume I: Theory and Design of Reflectors Satish K. Sharma, Sudhakar Rao, Lotfollah Shafai. 2013-07-01 This is the first truly comprehensive and most up-to-date handbook available on modern reflector antennas and feed sources for diversified space and ground applications. There has never been such an all-encompassing reflector handbook in print, and no currently available title offers coverage of such recent research developments. The Handbook consists of three volumes. Volume I provides a unique combination of

theoretical underpinnings with design considerations and techniques. The need for knowledge in reflector antennas has grown steadily over the last two decades due to increased use in space and ground applications, as well as their high gain and wide bandwidth capabilities at relatively low cost. This volume brings you to the leading edge of developments in the field related to numerical techniques, classical reflector geometries, adaptive reflector antennas, shaped reflectors, bifocal and bicolimated dual reflectors, advanced reflectors, and reflect arrays. A must-have reference for both practicing engineers as well as academic researchers.

**Broadband Microstrip Antennas** Girish Kumar, K. P. Ray. 2003 A guide to broadband microstrip antennas, offering information to help you choose and design the optimum broadband microstrip antenna configurations for your applications, without sacrificing other antenna parameters. The text shows you how to take advantage of the light-weight, low volume benefits of these antennas, by providing explanations of the various configurations and simple design equations that help you analyze and design microstrip antennas with speed and confidence. This practical resource presents an understanding of the radiation mechanism and characteristics of microstrip antennas, and provides guidance on designing new types of planar monopole antennas with multi-octave bandwidth. The authors explore how to select and design proper broadband microstrip antenna configurations for compact, tunable, dual-band and circular polarization applications. Moreover, the work compares all the broadband techniques and suggests the most attractive configuration.

*Microstrip Lines and Slotlines, Third Edition* Ramesh Garg, Inder Bahl, Maurizio Bozzi. 2013-05-01 Since the second edition of this book was published in 1996, planar transmission line technology has progressed considerably due to developments in ultrawideband (UWB) communications, imaging, and RFID applications. In addition, the simultaneous demands for compactness of wireless electronic devices while meeting improved performance requirements, necessitates increased use of computer-aided design, simulation, and analysis by microwave engineers. This book is written to help engineers successfully meet these challenges. Details include the development of governing equations, basis functions, Green's function and typical results. More than 1200 equations supplement the text. Special attention is given to the use of simulation software in the design of complex devices and understanding the connection between data collected from simulation software and the actual design process. The book is primarily intended for microwave design engineers and R&D specialists who need to employ planar transmission lines in designing distributed circuits and antenna systems for a wide range of wireless applications. Advanced undergraduate and graduate students in electronics and telecommunication engineering will also welcome this addition to your library.

**Microstrip and Printed Antennas** Debatosh Guha, Yahia M.M. Antar. 2011-02-02 This book focuses on new techniques, analysis, applications and future trends of microstrip and printed antenna technologies, with particular emphasis to recent advances from the last decade. Attention is given to fundamental concepts and techniques, their practical applications and the future scope of developments. Several topics, essayed as individual chapters include reconfigurable antenna, ultra-wideband (UWB) antenna, reflectarrays, antennas for RFID systems and also those for body area networks. Also included are antennas using metamaterials and defected ground structures (DGSs). Essential aspects including advanced design, analysis and optimization techniques based on the recent developments have also been addressed. Key Features: Addresses emerging hot topics of research and applications in microstrip and printed antennas. Considers the fundamental concepts, techniques, applications and future scope of such technologies. Discusses modern applications such as wireless base station to mobile handset, satellite earth station to airborne communication systems, radio frequency identification (RFID) to body area networks, etc. Contributions from highly regarded experts and pioneers from the US, Europe and Asia. This book provides a reference for R&D researchers, professors, practicing engineers, and scientists working in these fields. Graduate students studying/working on related subjects will find this book as a comprehensive literature for understanding the present and future

trends in microstrip and printed antennas.

*Transmission Line Design Handbook* Brian C. Wadell.1991 The Transmission Line Design Handbook consolidates and distills key design data from over 600 original sources. It features 800 equations, 220 illustrations, and 610 references.

Microstrip Antennas David M. Pozar, Daniel H. Schaubert.1995-05-15 This anthology combines 15 years of microstrip antenna technology research into one significant volume and includes a special introductory tutorial by the co-editors. Covering theory, design and modeling techniques and methods, this source book is an excellent reference tool for engineers who want to become more familiar with microstrip antennas and microwave systems. Proven antenna designs, novel solutions to practical design problems and relevant papers describing the theory of operation and analysis of microstrip antennas are contained within this convenient reference.

**Microstrip Patch Antennas (Second Edition)** Kai Fong Lee, Kwai Man Luk, Hau Wah Lai.2017-07-10 Microstrip patch antennas have become the favorite of antenna designers because of their versatility and having the advantages of planar profile, ease of fabrication, compatibility with integrated circuit technology, and conformability with a shaped surface. There is a need for graduate students and practicing engineers to gain an in depth understanding of this subject. The first edition of this book, published in 2011, was written with this purpose in mind. This second edition contains approximately one third new materials. The authors, Prof KF Lee, Prof KM Luk and Dr HW Lai, have all made significant contributions in the field. Prof Lee and Prof Luk are IEEE Fellows. Prof Lee was the recipient of the 2009 John Kraus Antenna Award of the IEEE Antennas and Propagation Society while Prof. Luk receives the same award in 2017, both in recognition of their contributions to wideband microstrip antennas.

**Microstrip Antennas** N Nasimuddin.2011-04-04 In the last 40 years, the microstrip antenna has been developed for many communication systems such as radars, sensors, wireless, satellite, broadcasting, ultra-wideband, radio frequency identifications (RFIDs), reader devices etc. The progress in modern wireless communication systems has dramatically increased the demand for microstrip antennas. In this book some recent advances in microstrip antennas are presented.

*Microstrip Lines and Slotlines* K. C. Gupta, Ramesh Garg, I. J. Bahl.1979-01-01 Be better prepared to meet design challenges with the latest design and analysis data available on planar microwave transmission structures including microstrip lines, slotlines, and coplanar waveguides. Four expert authors offer you today's most comprehensive information on transmission structures used in hybrid and monolithic circuits at microwave and mm-wave frequencies.

**Antenna Theory and Microstrip Antennas** D. G. Fang.2017-12-19 Antenna Theory and Microstrip Antennas offers a uniquely balanced analysis of antenna fundamentals and microstrip antennas. Concise and readable, it provides theoretical background, application materials, and details of recent progress. Exploring several effective design approaches, this book covers a wide scope, making it an ideal hands-on resource for professionals seeking a refresher in the fundamentals. It also provides the basic grounding in antenna essentials that is required for those new to the field. The book's primary focus is on introducing practical techniques that will enable users to make optimal use of powerful commercial software packages and computational electromagnetics used in full wave analysis and antenna design. Going beyond particular numerical computations to teach broader concepts, the author systematically presents the all-important spectral domain approach to analyzing microstrip structures including antennas. In addition to a discussion of near-field measurement and the high-frequency method, this book also covers: Elementary linear sources, including Huygen's planar element, and analysis and synthesis of the discrete and continuous arrays formed by these elementary sources The digital beam-forming antenna and smart antenna Cavity mode theory and related issues, including the design of irregularly shaped patches and the analysis of mutual coupling Based on much of the author's own internationally published research, and honed by his years of teaching experience, this text is

designed to bring students, engineers, and technicians up to speed as efficiently as possible. This text purposefully emphasizes principles and includes carefully selected sample problems to ease the process of understanding the often intimidating area of antenna technology. Paying close attention to this text, you will be able to confid

**Printed Mimo Antenna Engineering** Mohammad S. Sharawi.2014-04 A perfect design companion for practicing engineers, this detailed book overviews the various applications that currently depend on printed MIMO antennas, and provides design guidelines and remarks throughout the book for guidance. --

**Microstrip Antennas** Sudipta Chattopadhyay.2017-11-15 The progress in modern tiny multifunctional wireless devices has dramatically increased the demand for microstrip antennas in recent years. Furthermore, in the last few years, such microstrip antennas found numerous applications in both the military and the commercial sectors. Therefore, microstrip patch antenna has become a major focus to the researchers in the field of antenna engineering. In this book, some recent advances in microstrip antennas are presented. This book contains mainly three sections. In the first section, some new approaches to modern analytical techniques rather than the conventional cavity model, transmission line model, or spectral domain analysis have been discussed. In the second section of the book, a light has been showered on some new techniques for bandwidth enhancement of microstrip radiators. In the last section of the book, the recent trends in microstrip antenna research have been showcased. Some newfangled application-oriented approach to this field is vividly discussed. The books main objective is to facilitate the microstrip antenna researchers for exploring the subject in more vibrant manner and also to revolutionize wireless communications. A sufficient number of topics have been covered, some for the first time in a research handbook. I hope that the book will surely be beneficial for scientists, practicing engineers, and researchers working in the field of microstrip antennas.

**Microstrip Antenna Design for Wireless Applications** Praveen Kumar Malik, Sanjeevikumar Padmanaban, Jens Bo Holm-Nielsen.2021-11-29 Covers latest design and design parameters in the field of microstrip antenna. Discusses design of wearable antennas in detail. Presents design of conformal and miniaturized antenna structures for various applications. Covers methods and techniques for the enhancement of the performance parameters of the microstrip antenna. Discusses latest techniques in the field of microstrip antennas and it's applications

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