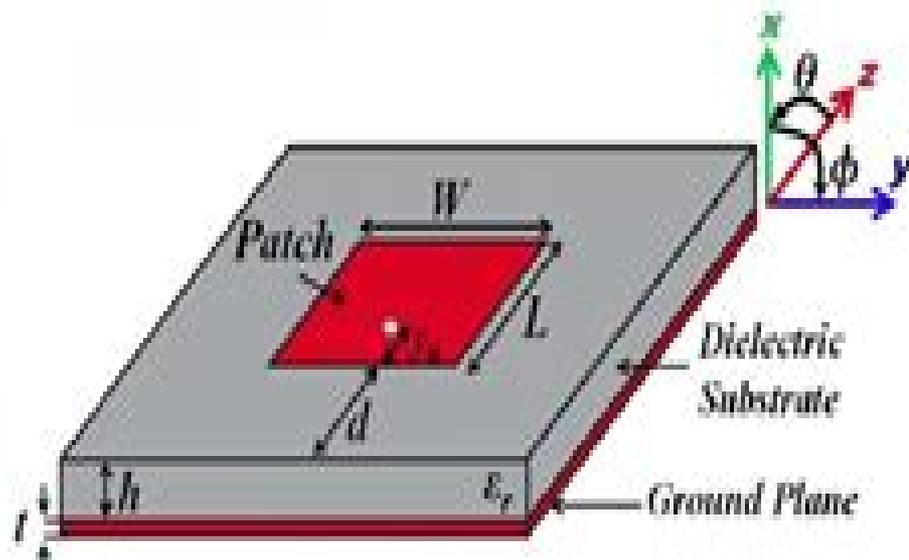


# MICROSTRIP PATCH ANTENNA

With Coaxial Feed



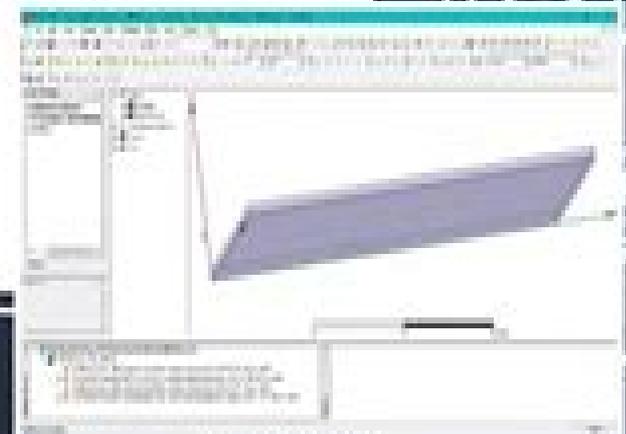
$W=9\text{mm}$

$L=16\text{mm}$

$t=0.2\text{mm}$

$Y=3\text{mm}$

$h=0.7874\text{mm}$   $\epsilon=2.2$



FOLLOW

# Microstrip Antenna Design

**Kai Fong Lee, Kwai Man Luk**



## **Microstrip Antenna Design:**

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 *Microstrip Patch Antennas: A Designer's Guide* Rod Waterhouse, 2003-02-28 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 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 and Printed Antenna Design** Randy Bancroft, 2009 Gives a complete introduction to useful elegant microstrip antenna designs that may be engineered unlike many other designs Provides extensive section on the design of omni directional microstrip antennas De mystifies basic PIFA designs and expands on their limitations **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

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

**Microstrip Patch Antennas** Kai Fong Lee, Kwai Man Luk, 2010-09-03

Microstrip patch antennas have become the favorite of antenna designers because of its versatility and advantages of planar profile ease of fabrication compatibility with integrated circuit technology and conformability with a shaped surface As there is currently an urgent need for graduate students and practicing engineers to gain an in depth understanding of this subject this book was written with this purpose in mind The authors are IEEE Fellows who have made significant contributions to their fields of expertise Professor K F Lee was the recipient of the 2009 John Kraus Antenna Award of the IEEE Antennas and Propagation Society a

*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 **Broadband Microstrip Antennas** Girish Kumar, K. P. Ray, 2003 Microstrip antennas are lightweight and small volume can be made conformal to the host surface and are manufactured using printed circuit technology so can be mass produced at low cost but alas say Kumar and Ray Indian Institute of Technology Bombay their use has been restricted by their inherently narrow bandwidth Over the past few decades however reports have surfaced of broadband configurations and they detail the most promising compiling material from scattered journals conference proceedings and books They explain concepts of several techniques and describe examples without bogging down in mathematical detail Annotation copyrighted by Book News Inc Portland OR

**Microstrip Patch Antennas** Rodney Waterhouse, 2014-01-15 **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

**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

Design and Implementation of Rectangular Patch Antenna for Tri-Band operation Prashant S. Mahajan, Jagadish B. Jadhav, Pramod J. Deore, 2015-04-14 Master's Thesis from the year 2013 in the subject Electrotechnology grade First Class course Master Of Engineering language English abstract In today's modern communication industry antennas are the most important components required to create a communication link Microstrip antennas are the most suited for aerospace and mobile applications because of their low profile light weight and low power handling capacity These antennas can be designed in a variety of shapes in order to obtain enhanced gain and bandwidth for dual band and tri band operation This

book focus on a detailed study of how to design and simulate a microstrip fed rectangular patch antenna using IE3D software with effect of antenna dimensions length  $L$  width  $W$  relative dielectric constant substrate thickness  $t$  on the radiation parameters of bandwidth and gain The design parameters of the antenna calculated using the transmission line model Here antenna operates for tri band operation the operating bands are GSM PCA and UTMS for antenna geometry I and WLAN and WiMAX for antenna geometry II The fractional bandwidths FB after simulation obtain under criterion  $S_{11}$  Microstrip Patch Antenna Learning using MATLAB. Theory and Implementation Jagadish Jadhav,Alkeshkumar M Khatri,Pramod J Deore,2021-07-30 Scientific Study from the year 2021 in the subject Engineering Communication Technology course M Tech language English abstract Microstrip patch antenna is used to send onboard parameters of article to the ground while under operating conditions By the study of this book we find out how to investigate a new method of teaching microstrip patch antenna design for undergraduate students by using MATLAB Effect of changes in basic parameter microstrip patch antenna on its radiation pattern and other parameters to study the effect of resonant frequency and substrate parameters like relative dielectric constant substrate thickness on the radiation parameters of bandwidth and physical dimension of the microstrip patch antenna can be determined by using GUI In this book we develops simple CAD GUI formulas that describe the basic properties of microstrip patch antenna using MATLAB By the usage of this teaching tool we can analyze the behaviour of the microstrip patch antenna and design of it for different material Satellite communication and wireless communication has been developed rapidly in the past decades and it has already a dramatic impact on human life In the last few years the development of wireless local area networks WLAN represented one of the principal interests in the information and communication field Thus the current trend in commercial and government communication systems has been to develop low cost minimal weight low profile antennas that are capable of maintaining high performance over a large spectrum of frequencies This technological trend has focused much effort into the design of microstrip patch antennas The variety in design that is possible with microstrip antenna probably exceeds that of any other type of antenna element In addition once the shape and operating mode of the patch are selected designs become very versatile in terms of operating frequency polarization pattern and impedance They are extremely low profile lightweight simple and inexpensive to fabricate using modern day printed circuit board technology compatible with microwave and millimeter wave integrated circuits MMIC and have the ability to conform to planar and non planar surfaces Stacked Antennas Ankita Malhotra,Ananjan Basu,2024-12-12 The text focuses primarily on details related to design concepts of stacked microstrip antennas performance characteristics and complete static analysis based on different approaches It will further provide readers with an in depth understanding of static analysis approaches for analyzing and understanding the performance of multi layered stacked antennas The book covers important topics such as conformal mapping the transmission line equivalent model based approach and the microstrip patch antenna model The book also discusses reconfigurable stacked microstrip antennas

stacked microstrip antenna arrays and a wide range of potential applications of stacked microstrip antennas This book Presents systematic and simplified design steps of stacked antennas the factors involved and various design examples and explains static analysis of multi layered stacked antennas in an easy to understand manner Discusses topics such as conformal mapping the transmission line equivalent model based approach and the microstrip patch antenna model and reconfigurable stacked microstrip antennas and their applications along with briefly discussing the design concepts of stacked microstrip antenna arrays Covers simulation design concepts and measurement techniques for stacked microstrip antennas Illustrates microstrip stacked antenna parameters including bandwidth polarization radiation pattern gain directivity and efficiency Focuses on covering a wide range of potential applications of stacked microstrip antennas It is primarily written for senior undergraduates graduate students and academic researchers in fields including electrical engineering electronics and communications engineering

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

*Design of Nonplanar Microstrip Antennas and Transmission Lines* Kin-Lu Wong,2004-03-24 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

**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

**A New Broadband Microstrip Antenna Design for Wireless Communications** Amer Hassib Bzeih, 2006 One of the most critical parameters in antenna systems is the bandwidth A narrow bandwidth is a major disadvantage of microstrip antennas in practical applications For present day wireless communication systems the required operating bandwidths for antennas are about 7.6% for a Global System for Mobile Communications GSM 9.5% for a Digital Cellular System DCS 7.5% for a Personal Communications Service PCS and 12.2% for a Universal Mobile Telecommunications System UMTS To meet these bandwidth requirements many bandwidth enhancement or broadband techniques for microstrip antennas have been reported recently This thesis presents EEPA the Enhanced E Patch Antenna for the usage in a wide range of wireless communications frequency ranges The antenna parameters are optimized to achieve a target wide bandwidth The EEPA is designed simulated fabricated and tested where it can be used in DCS PCS UMTS Wi-Fi 802.11 b/g Bluetooth 802.15 and WiMax 802.16 d Moreover the antenna design parameters are empirically formulated and followed by a validation procedure Also this thesis presents a new microstrip patch antenna design model the Multi Parallel Slots Microstrip Patch Antenna MPSMPA The antenna is designed and simulated for different scenarios 4 slots 6 slots and 8 slots A 57% bandwidth is

achieved in the 8 slots design The antenna can be utilized in many wireless communications standards such as DCS PCS UMTS Wi-Fi 802.11 b/g WiMax 802.16 d and MMDS Multichannel Multipoint Distribution Service

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