

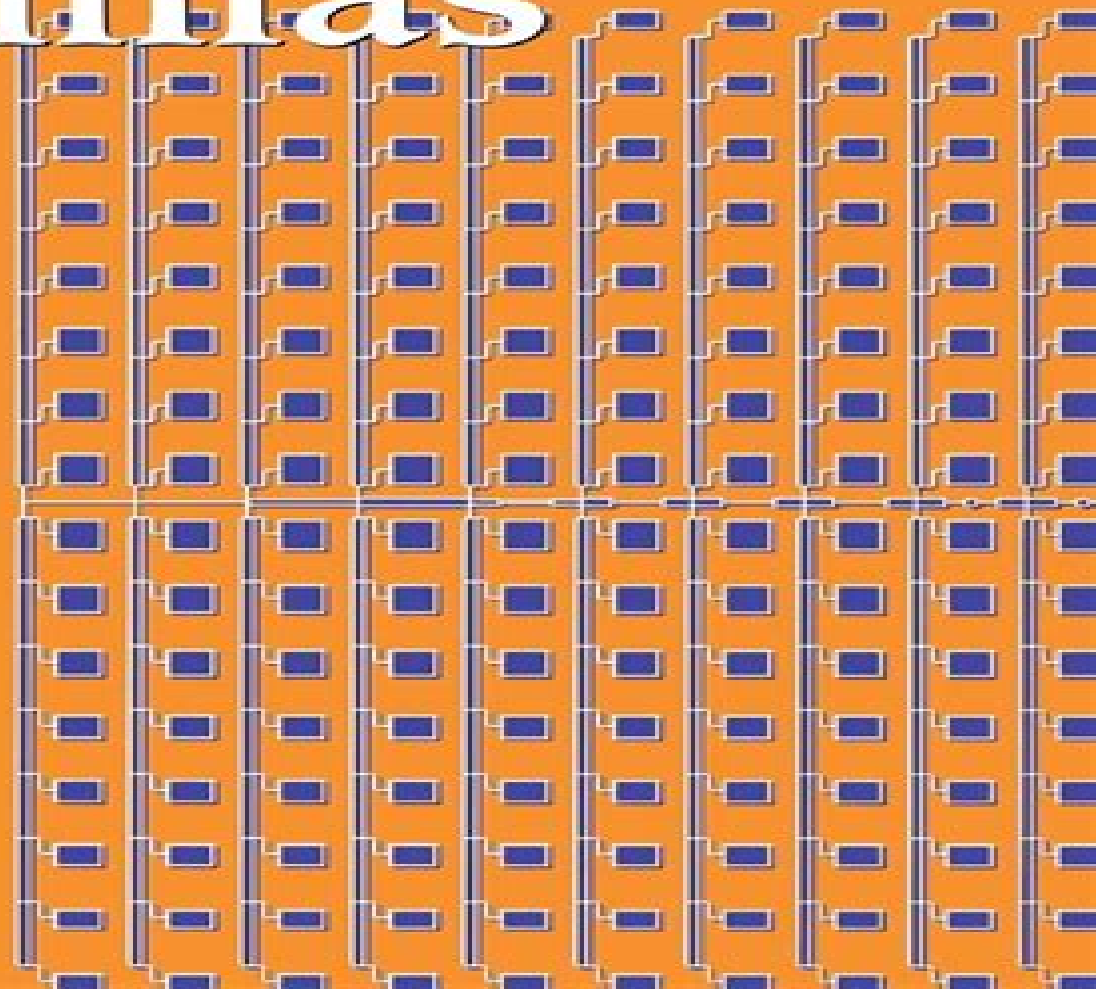
*edited by*

David M. Pozar and Daniel H. Schaubert

# Microstrip Antennas

**The Analysis  
and Design  
of Microstrip  
Antennas  
and Arrays**

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# Microstrip Antennas The Analysis And Design Of Microstrip Antennas And Arrays

**D. J. Bekers**



## **Microstrip Antennas The Analysis And Design Of Microstrip Antennas And Arrays:**

*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 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

*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 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

*Microstrip Antennas* I. J. Bahl, P. Bhartia, 1980      **Microstrip Antenna Design** K. C. Gupta, Abdelaziz Benalla, 1988

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      *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 *Antenna Theory and Design* Warren L. Stutzman, Gary A. Thiele, 1998 Highly respected authors have reunited to update the well known 1981 edition which is still hailed as one of the best in its field This edition includes recent antenna innovations and applications It features a succinct treatment of the finite difference time domain FDTD computational technique It is also the first text to treat physical theory of diffraction PTD

The Analysis of Microstrip Wire-grid Antenna Arrays Louis Trichardt Hildebrand, 2013 The design of antenna arrays involves amongst others the selection of the array elements and geometry as well as the element excitations The feeding network to obtain the desired excitations can become quite complex and hence expensive One possible alternative would be to make use of microstrip wire grid antenna arrays These arrays are composed of staggered interconnected rectangular loops of dimensions a half wavelength by a wavelength in the presence of the dielectric It is because the short sides are considered to be discrete elements fed via microstrip transmission lines that these antennas are viewed as arrays While considerable success has been achieved in the design of these antennas published work has been either of an entirely experimental nature or based on approximate albeit clever network models which do not allow for fine control of the array element excitations or off centre frequency computations generally It is the purpose of this thesis to perform an almost rigorous numerical analysis of these arrays in order to accurately predict their element excitations Models used to study microstrip antennas range from simplified ones such as transmission line models up to more sophisticated and accurate integral equation models The mixed potential integral equation formulation is one of these accurate models which allows for the analysis of arbitrarily shaped microstrip antennas with any combination of frequency and dielectric thickness The model treats the antenna as a single entity so that physical effects such as radiation surface waves mutual coupling and losses are automatically included According to this formulation the microstrip antenna is modelled by an integral equation which is solved using the method of moments By far the most demanding part of the integral equation analysis is its actual numerical implementation For this reason a complete description of the numerical implementation of the formulation is given in this thesis To verify the accuracy of the implementation rectangular microstrip patch antennas were analysed and surface current distributions were shown to compare favourably with published results The formulation is then applied to the analysis of microstrip wire grid antenna arrays which makes it possible to accurately predict surface current distributions on these arrays Radiation patterns are determined directly from computed current distributions in the presence of the dielectric substrate and groundplane and are essentially exact except for finite groundplane effects To verify theoretically predicted

results for wire grid antenna arrays several arrays were fabricated and actual radiation patterns were measured Good correspondence between measured and predicted co polar radiation patterns was found while the overall cross polarization behaviour in cases with large groundplanes could also be predicted The fact that numerical experimentation can be performed on wire grid antenna arrays to examine element excitations means that it is now possible to carefully design for some desired aperture distribution

**Broadband Microstrip Antennas** Girish Kumar,K. P. Ray,2003 Look to this new cutting edge microstrip antenna book for the first exhaustive coverage of broadband techniques including the most up to date information to help you choose and design the optimum broadband microstrip antenna configurations for your applications without sacrificing other antenna parameters The book shows you how to take advantage of the lightweight low volume benefits of these antennas by providing clear explanations of the various configurations and simple design equations that help you analyze and design microstrip antennas with speed and confidence

**Finitely Large Phased Arrays of Microstrip Antennas** D. J. Bekers,2001

**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

**Scientific and Technical Aerospace Reports** ,1978 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database

Computer Aided Analysis and Design of Rectangular Patch Microstrip Antenna Arrays Mohammad Shahid,1994

Advances in Microstrip and Printed Antennas Kai Fong Lee,Wei

Chen,1997-06-23 Lee Antennas 044210 The latest research results and important topics driving the development of microstrip and printed antennas Keeping abreast of current research topics and results in a field as dynamic as microstrip and printed antennas is a challenge for graduate students researchers and practicing engineers alike theoretical and experimental advances since 1989 have quickly outdated existing literature on the subject This invaluable reference provides the latest information on conventional antenna topics comprehensive accounts of new research topics updated research results and summaries of future trends Advances in Microstrip and Printed Antennas is a comprehensive up to date presentation of the research that is propelling these antennas into an ever widening array of applications including potential uses in radar and communication systems Featuring contributions by leading researchers and supplemented with extensive illustrations this book Covers recent advances in probe fed and aperture coupled microstrip antennas microstrip arrays and dual and circularly polarized planar antennas Examines the development of CAD formulas for the rectangular patch Explores the potential for multifunction printed antennas new high temperature superconducting materials active microstrip antennas and tapered slot printed antennas Discusses the finite difference time domain method of analysis Examines competing dielectric resonator antenna technology Includes design data and an extensive bibliography **Proceedings** ,2005

Conformal Array Antenna Theory and Design Lars Josefsson,Patrik Persson,2006-02-10 This is the first comprehensive treatment of conformal antenna arrays from an engineering perspective While providing a thorough foundation in theory the authors of this publication provide a wealth of hands on instruction for practical analysis and design of conformal antenna arrays Thus you get the knowledge you need alongside the practical know how to design antennas that are integrated into such structures aircrafts or skyscrapers **Printed Antennas** Praveen Kumar Malik,Arshi Naim,Ramendra Singh,2022-12-15 This collection covers different printed microstrip antenna designs from rectangular to circular broadband dual band and millimeter wave microstrip antennas to microstrip arrays It further presents a new analysis of the rectangular and circular microstrip antenna efficiency and surface wave phenomena The book Covers the latest advances and applications of microstrip antennas Discusses methods and techniques used for the enhancement of the performance parameters of the microstrip antenna Presents low power wide area network LPWAN proximity coupled antenna for Internet of Things applications Highlights a new analysis of rectangular and circular microstrip antenna efficiency and surface wave phenomena Showcases implantable antennas H shaped antennas and wideband implantable antennas for biomedical applications Printed Antennas discusses the latest advances such as the Internet of Things for antenna applications device to device communication satellite communication and wearable textile antenna in the field of communication It further presents methods and techniques used for the enhancement of the performance parameters of the microstrip antenna and covers the design of conformal and miniaturized antenna structures for various applications It will serve as an ideal reference text for senior undergraduates graduate students and researchers in fields including electrical engineering electronics and

communications engineering and computer engineering      *Low-Visibility Antennas for Communication Systems* Albert Sabban, 2015-09-18 Low visibility antennas have many attractive features such as being low profile flexible lightweight small volume and low cost *Low Visibility Antennas for Communication Systems* provides explicit guidelines for the development of these antennas Offering valuable insight into emerging antenna technologies the book Introduces the fundamental t



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