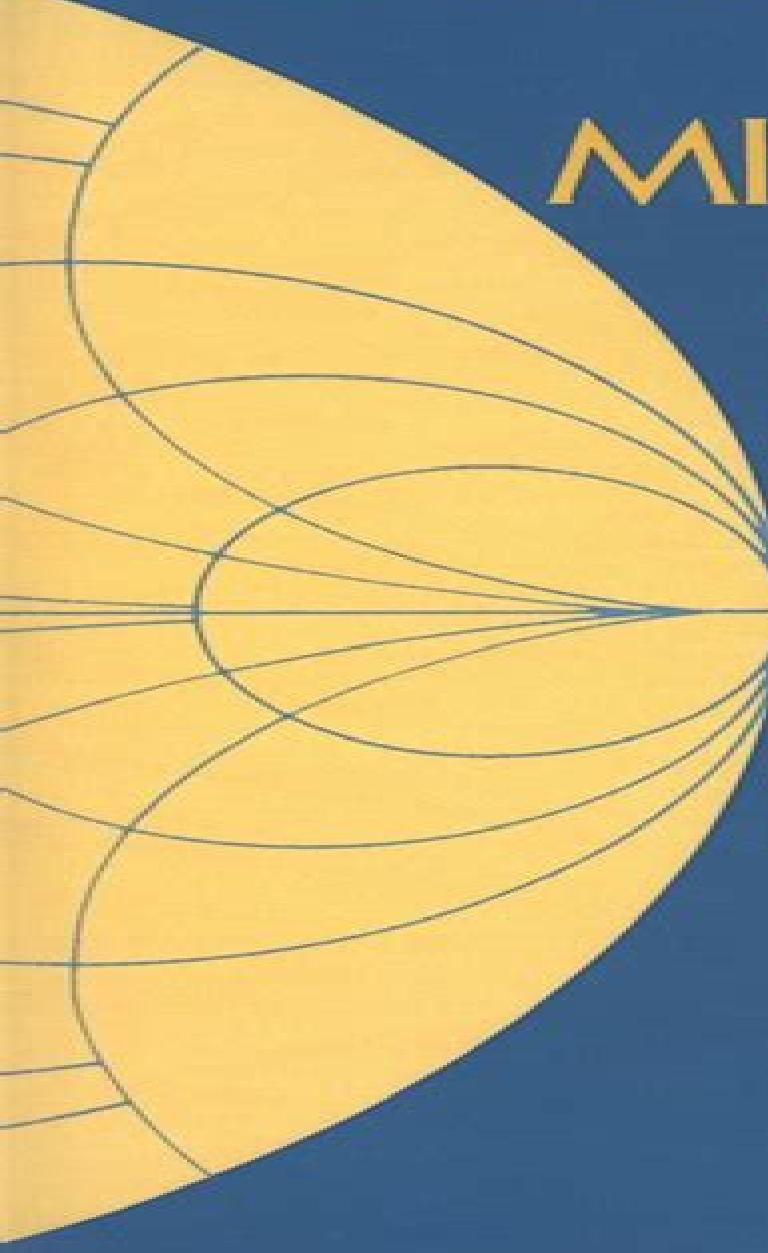




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# MICROSTRIP ANTENNA THEORY AND DESIGN

J. R. JAMES.  
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and  
C. WOOD

# Microstrip Antenna Theory And Design

## Electromagnetics And Radar

**Samuel Silver**

## **Microstrip Antenna Theory And Design Electromagnetics And Radar:**

**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

**Geometrical Theory of Diffraction for Electromagnetic Waves** Graeme L. James,1986 The purpose of the book apart from expounding the Geometrical Theory of Diffraction GTD method is to present useful formulations that can be readily applied to solve practical engineering problems

**Approximate Boundary Conditions in Electromagnetics** Thomas B. A. Senior,John Leonidas Volakis,1995 This book comprehensively describes a variety of methods for the approximate simulation of material surfaces

*Advanced Electromagnetic Analysis of Passive and Active Planar Structures* Tullio Rozzi,Marco

Farina,1999 Rozzi and Farina electromagnetics U of Ancona Italy address the challenges involved in combining the fields of electromagnetics and complex circuit modeling that have arisen with the emergence of very high speed digital circuits Specifically they examine the analytical techniques encompassing the linear modeling of passive and active structures discussing passive and active planar waveguides on multilayer substrates with both 2D and 3D analysis Distributed by INSPEC Annotation copyrighted by Book News Inc Portland OR    **Analysis of Metallic Antennas and Scatterers** Branko D. Popović,B. M. Kolundžija,1994 Describes a novel general entire domain method for the analysis of metallic antennas and scatterers that enables a very wide range of problems to be solved using computers of relatively modest capability The conventional approximation approach requires a large amount of computer storage Of interest to engineers scientists and graduate students engaged in the analysis or design of electrically small and medium sized antennas and scatterers Distributed by INSPEC Annotation copyright by Book News Inc Portland OR    *Electromagnetic Mixing Formulas and Applications* A. H. Sihvola,1999 This book covers the homogenization principles and mixing rules for determining the macroscopic dielectric and magnetic properties of different types of media Sihvola electromagnetics Helsinki U of Technology Finland discusses subjects such as the characteristic differences between a mixture and its parts and ways that mixing results are applied to different materials in geophysics and biology Distributed by INSPEC Annotation copyrighted by Book News Inc Portland OR    **VHF and UHF Antennas** R. A. Burberry,1992 Describes the VHF and UHF antennas for the 30 3000 Mhz range that have been developed over the past 50 years including many designs that have not previously been treated in detail and several new uses for old designs Among the topics are methods of predicting and measuring the performance of antennas and how it is affected by the local environment both normal and adverse and by the structures on which the antennas are mounted both fixed and mobile including humans Addressed primarily to practicing antenna engineers the basic theory is assumed to be known except for the less known types Distributed by INSPEC Annotation copyright by Book News Inc Portland OR    Propagation, Scattering and Dissipation of Electromagnetic Waves A. S. Il'inskii,Grigorii Iakovlevich Slepichenko,A. Ya Slepyan,1993 Aimed at physicists and engineers conducting theoretical research or designing microwave and millimetre wave devices this study explores methods of calculating microwave absorption in waveguides resonators and periodic structures    **Parabolic Equation Methods for Electromagnetic Wave Propagation** Mireille Levy,2000 Provides scientists and engineers with a tool for accurate assessment of diffraction and ducting on radio and radar systems The author gives the mathematical background to parabolic equations modeling and describes simple parabolic equation algorithms before progressing to more advanced topics such as domain truncation the treatment of impedance boundaries and the implementation of very fast hybrid methods combining ray tracing and parabolic equation techniques The last three chapters are devoted to scattering problems with application to propagation in urban environments and to radar cross section computation Annotation copyrighted by Book News Inc Portland OR    **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 problemsand relevant papers describing the theory of operation and analysis of microstrip antennas are contained within this convenient reference    Electrodynamic Theory of Superconductors Shu-Ang Zhou,1991 This book presents a unified and comprehensive theoretical treatment of electromagnetic thermal and mechanical phenomena in superconductors Introduces basic concepts and principles with particular emphasis on general methodology    **Electromagnetic**

**Waveguides** S. F. Mahmoud,1991 A textbook for an introductory graduate course in electromagnetic waveguides covering such types as low attenuation dielectric and the natural wave guides in the ionosphere and in mine tunnels Annotation copyrighted by Book News Inc Portland OR    **Spectral Theory and Excitation of Open Structures** V. P.

Shestopalov,1996 Open resonators open waveguides and open diffraction gratings are used extensively in modern millimetre and submillimetre technology spectroscopy and radio engineering In this book the physical processes in these open electromagnetic structures are analysed using a specially constructed spectral theory    Theory of Nonuniform Waveguides

B. Z. Katsenelenbaum,1998 This book presents and develops the mathematical tools required to effectively examine and analyse propagation processes of waves of various natures using the cross section method in artificial and non artificial waveguides These techniques are used in the solution of practical situations in various fields such as plasma heating in nuclear fusion materials processing and radar and satellite communication systems    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    **Geometrical Theory of Diffraction** Vladimir Andreevich Borovikov,Boris Evseevich Kinber,1994 This book details the ideas underlying geometrical theory of diffraction GTD along with its relationships with other EM theories    Microwave Antenna Theory and Design Samuel Silver,1984 This book covers the basic principles and fundamental microwave antenna types and techniques    **Ionospheric Radio** Kenneth Davies,1990 This introductory text replaces two earlier publications Davies 1965 1969 Among the topics characteristics of waves and plasma the solar terrestrial system the Appleton formula radio soundings of the ionosphere morphology of the ionosphere oblique propagation importance of amplitude and phase earth space propagation Annotation copyrighted by Book News Inc Portland OR

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