

MICROWAVE ANTENNA THEORY AND DESIGN

Edited by

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OFFICE OF SCIENTIFIC RESEARCH AND DEVELOPMENT
NATIONAL DEFENSE RESEARCH COMMITTEE

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Microwave Antenna Theory And Design

Daniela Niemeyer



Microwave Antenna Theory And Design:

Microwave Antenna Theory and Design Samuel Silver, 1984 This book covers the basic principles and fundamental microwave antenna types and techniques

Microwave Antenna Theory and Design Samuel Silver, 1947 **Radiation laboratory series**, 1949 *Microwave Antenna Theory and Design. Edited by S. Silver, Etc* Samuel SILVER (of the Space Sciences Laboratory, University of California.), 1949 **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

Microwave Antennas A. Z. Fradin, 2017-09-21 *Microwave Antennas* provides a comprehensive discussion on the various areas of concerns in microwave antenna theory and design The title also presents data from technical journals that cover the advances in the developments of microwave antenna technology The text first discusses the classification structure and operating principles of microwave antennas and then proceeds to tackling the fundamental problem of microwave antenna theory and methods for its solution In Chapter III the selection covers the solution of a number of mathematical problems of diffraction at openings in plane screens The remaining chapters deal with the various types of antennas such as horn lens slots and helical The book will be of great interest to students and practitioners of radio and telecommunications engineering

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analytical techniques of antenna design It deals with a very wide range of antenna types operating from very low frequencies to millimetre waves *Antennen und Strahlungsfelder* Klaus W. Kark, 2016-12-01 Dieses Lehrbuch und Nachschlagewerk eines der besten Grundlagenbcher zum Thema behauptet gibt eine systematische Einf hrung in die Abstrahlung und Ausbreitung elektromagnetischer Wellen Die Antennentechnik wird von den feldtheoretischen Grundlagen bis zu praktischen Designvorschl gen mit einfach anwendbaren Kochrezepten Faustformeln und 155 bungsaufgaben verst ndlich dargestellt Neben den grundlegenden mathematischen Methoden wird gro er Wert auf die physikalische Interpretation und Visualisierung der erhaltenen Ergebnisse mittels Computersimulationen gelegt Das Buch ist f r Studierende neben der Vorlesung und auch als Nachschlagewerk f r Praktiker und Anwender konzipiert Fernfelddiagramm-Simulation linearer Punktstrahlergruppen auf dem Analogrechner Rudolf Wohlleben, Klaus Pfaff, 2013-12-19 *Lehrbuch der Hochfrequenztechnik* Otto Zinke, Heinrich Brunswig, 2013-07-02 Behandelt Erzeugung Verst rkung Fortleitung Ausstrahlung und Anwendung elektromagnetischer Signale ber den vollen Frequenzbereich von einigen kHz bis zur optischen Nachrichtentechnik Band 1 geht auf Schwingkreise Hochfrequenz bertrager und filter Eigenschaften von Koaxialkabeln Mikrostreifenleitungen Koplanar und Fin Leitungen Richtkoppler Lichtwellenleiter Oberfl chenwellen Filter Hohlleiter und gyromagnetischen Medien sowie Antennen ein Die Neuauflage wurde aktualisiert und erg nzt speziell um einen Beitrag Quarzfilter Band 2 behandelt Elektronik und Signalverarbeitung in der Hochfrequenztechnik und beschreibt neueste Entwicklungen bis zu h chsten Leistungen und h chsten Frequenzen die Eigenschaften analoger und digitaler integrierter Schaltungen werden dargestellt *Antennen und Strahlungsfelder* Klaus Kark, 2007-08-18 Die moderne Informationsgesellschaft zeigt einen zunehmenden Bedarf an schneller Verarb tung und bertragung gro er Datenmengen So ist z B die dynamische Entwicklung im reich des Mobilfunks und bei den Funknetzwerken noch lange nicht abgeschlossen Notwen ge hohe Datenraten bedingen breitbandige Spektren der beteiligten Signale die sich als el tromagnetische Wellen entlang von Leitungen oder im Funkfeld ausbreiten Mit dem weiteren Vordringen der drahtlosen Nachrichtentechnik in immer h here Frequenzbereiche und in neue Anwendungsgebiete muss auch eine F lle neuer Antennenformen entwickeln werden wobei man sich die enormen Fortschritte bei den Berechnungsmethoden mit Hilfe rechnergest tzier Simulationsverfahren zu Nutze macht Verschiedene Anwendungsbereiche der modernen Kommunikationstechnik wie z B Ortung Navigation Mobilfunk Richtfunk Satellitenfunk sowie die Raumfahrt w ren ohne eine weit entwickelte Antennentechnik undenkbar Dieses Buch basiert auf zweisemestrigen Vorlesungen die f r Studierende der Elektrotechnik und Informationstechnik an der Hochschule Ravensburg Weingarten seit 13 Jahren gehalten werden Es wendet sich auch an Studierende verwandter Fachgebiete sowie an Ingenieure und Naturwissenschaftler die mit Fragestellungen zur Abstrahlung und Ausbreitung elektromag tischer Wellen betraut sind Das Buch eignet sich zum vertiefenden Selbststudium neben der Vorlesung zur Pr fungsvorbereitung oder als praktisches Nachschlagewerk f r alle Funk wender Advanced Array

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Hochfrequenztechnik 1 Otto Zinke, Heinrich Brunswig, 2013-03-07 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 Klassische Elektrodynamik John David Jackson, 2011-11-14 Keine ausführliche Beschreibung für Klassische Elektrodynamik verfügbar 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

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