

The Handbook Of Antenna Design

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this book presents the fundamental background theory and analytical techniques of antenna design it deals with a very wide range of antenna types operating from very low frequencies to millimetre waves

a practical book written for engineers who design and use antennas the author has many years of hands on experience designing antennas that were used in such applications as the venus and mars missions of nasa the book covers all important topics of modern antenna design for communications numerical methods will be included but only as much as are needed for practical applications

antennas from theory to practice comprehensive coverage of the fundamentals and latest developments in antennas and antenna design in the newly revised second edition of antennas from theory to practice renowned researcher engineer and author professor yi huang delivers comprehensive and timely coverage of issues in modern antenna design and theory practical and accessible the book is written for engineers researchers and students who work with radio frequency microwave engineering radar and radio communications the book details the basics of transmission lines radiowaves and propagation antenna theory antenna analysis and design using industrial standard design software tools and the theory of characteristic modes antenna measurement equipment

facilities and techniques it also covers the latest developments in special topics like small and mobile antennas wide and multi band antennas automotive antennas rfid uwb metamaterials reconfigurable and mimo antennas and more the new edition includes up to date information on a wide variety of newly relevant topics and trends like adaptive impedance matching the theory of characteristic modes antenna materials and fabrication processes and over the air ota antenna system measurements many questions and examples are provided which enhances the learning experience the book covers an introduction to circuit concepts and transmission lines including lumped and distributed element systems transmission line theory and the smith chart an exploration of field concepts and radiowaves including wave equations and solutions and radiowave propagation mechanisms characteristics and models discussions of antenna basics and popular antennas including wire type antennas aperture type antennas and antenna arrays information about antenna manufacturing and measurements including antenna measurement facilities and methods the use of industrial standard simulation tools for antenna design and analysis perfect for engineers and researchers who work in rf engineering or radar and radio communications antennas from theory to practice second edition will also earn a place on the bookshelves of university students seeking a concise and practical introduction to the basics of antennas and antenna design

expanded and updated this practical guide is a one stop design reference containing all an engineer needs when designing antennas integrates state of the art technologies with a special section for step by step antenna design features up to date bio safety and electromagnetic compatibility regulation compliance and latest standards newly updated with mimo antenna design measurements and requirements accessible to readers of many levels from introductory to specialist written by a practicing expert who has hired and trained numerous engineers

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

practical concise and complete reference for the basics of modern antenna design antennas from theory to practice discusses the basics of modern antenna design and theory developed specifically for engineers and designers who work with radio communications radar and rf engineering this book offers practical and hands on treatment of antenna theory and techniques and provides its readers the skills to analyse design and measure various antennas key features provides thorough coverage on the basics of transmission lines radio waves and propagation and antenna analysis and design discusses industrial standard design software tools and antenna measurement equipment facilities and techniques covers electrically small antennas mobile antennas uwb antennas and new materials for antennas also discusses reconfigurable antennas rfid antennas wide band and multi band antennas radar antennas and mimo antennas design examples of various antennas are

provided written in a practical and concise manner by authors who are experts in antenna design with experience from both academia and industry this book will be an invaluable resource for engineers and designers working in rf engineering radar and radio communications seeking a comprehensive and practical introduction to the basics of antenna design the book can also be used as a textbook for advanced students entering a profession in this field

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

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

expanded and updated this practical guide is a one stop design reference containing all an engineer needs when designing antennas integrates state of the art technologies with a special section for step by step antenna design features up to date bio safety and electromagnetic compatibility regulation compliance and latest standards newly updated with mimo antenna design measurements and requirements accessible to readers of many levels from introductory to specialist written by a practicing expert who has hired and trained numerous engineers

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

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

this exciting new book focuses on the analysis and design of reconfigurable antennas for modern wireless communications sensing and radar it presents the definitions of basic antenna parameters an overview of rf switches and explains how to characterize their insertion loss isolation and power handling issues basic reconfigurable antenna building blocks such as dipoles monopoles patches and slots are described followed by presentations on frequency reconfigurable antennas pattern reconfigurable antennas and basic scanning antenna arrays switch biasing in an electromagnetic environment is discussed as well as simulation strategies of reconfigurable antennas and mimo multiple input multiple output reconfigurable antennas performance characterization of reconfigurable antennas is also presented the book provides information for the technical professional to design frequency reconfigurable pattern reconfigurable and mimo antennas all relevant for modern wireless communication systems readers learn how to select switching devices bias them properly and understand their role in the overall reconfigurable antenna design the book presents practical experimental implementation issues including losses due to switches materials and emi electromagnetic interference and shows how to address those

the steady evolution of wireless communication technologies continues to pave the way for the implementation of innovative services and devices in modern vehicles these include analog and digital audio broadcasting radio satellite radio gps cell phones and short range communication devices such applications require the use multiple antennas operating in different frequency ranges automotive antenna design and applications thoroughly examines traditional and new advanced automotive antennas including the principles designs and techniques used to reduce antenna dimensions without significant degradation of communication quality the contents of this book are based on cutting edge data collected from numerous technical papers patents and patent applications it presents an overview of many commercially available automotive antennas and covers features that have become standard in automotive applications such as printed on car glass antennas reduced size helical antennas multiband compact printed on dielectric and patch designs in a single package includes simulation examples of antenna parameters that significantly speed up the design process using software packages such as feko nec ie3d and genesys highlighting the practical aspects of antenna design the authors present passive and active designs and describe the entire design process including antenna simulation prototype sample fabrication and laboratory test measurements the book also covers the production adjustments that can result from the demands of the real car environment the presentation of numerous examples of passive and active automotive antennas greatly enhances this reference s value to professionals students and anyone else working in the ever evolving field of antenna design and application

this book addresses computationally efficient multi objective optimization of antenna structures using variable fidelity electromagnetic simulations surrogate modeling techniques and design space reduction methods based on contemporary research it formulates multi objective design tasks highlights related challenges in the context of antenna design and discusses solution approaches specific focus is on providing methodologies for handling computationally expensive simulation models of antenna structures in the sense of their multi objective optimization also given is a summary of recent developments in antenna design optimization using variable fidelity simulation models numerous examples of real world antenna design problems are provided along with discussions and recommendations for the readers interested in applying the considered methods in their design work written with researchers and students in mind topics covered can also be applied across a broad spectrum of aeronautical mechanical electrical biomedical and civil engineering it is of particular interest to those dealing with optimization computationally expensive design tasks and simulation driven design

this book presents research focused on the design of fractal antennas using bio inspired computing techniques the authors present designs for fractal antennas having desirable features like size

reduction characteristics enhanced gain and improved bandwidths the research is summarized in six chapters which highlight the important issues related to fractal antenna design and the mentioned computing techniques chapters demonstrate several applied concepts and techniques used in the process such as artificial neural networks anns genetic algorithms gas particle swarm optimization pso and bacterial foraging optimization bfo the work aims to provide cost effective and efficient solutions to the demand for compact antennas due to the increasing demand for reduced sizes of components in modern wireless communication devices a key feature of the book includes an extensive literature survey to understand the concept of fractal antennas their features and design approaches another key feature is the systematic approach to antenna design the book explains how the ie3d software is used to simulate various fractal antennas and how the results can be used to select a design this is followed by ann model development and testing for optimization and an exploration of ann ensemble models for the design of fractal antennas the bio inspired computing techniques based on ga pso and bfo are developed to find the optimal design of the proposed fractal antennas for the desired applications the performance comparison of the given computing techniques is also explained to demonstrate how to select the best algorithm for a given bio inspired design finally the book explains how to evaluate antenna designs this book is a valuable resource for students from ug to pg levels and research scholars undertaking learning modules or projects on microstrip and patch antenna design in communications or electronics engineering courses

this one of a kind new resource presents cognitive radio from an antenna design perspective and introduces the concept of cognitive radio as a protocol that benefits from under utilized regions of the spectrum this book covers topics that govern the operation of a cognitive radio and discusses the use of reconfigurable antennas reconfigurable filtennas and mimo antennas for cognitive radio the analysis and design of different antenna systems are presented compared and evaluated new approaches to improve spectrum efficiency are explored by demonstrating how to design software controlled cognitive radio antenna systems this new resource shows how to communicate using either interweave or underlay cognitive radio and demonstrates the benefits of designing appropriate sensing and communicating antennas the first part of the book introduces the basic concept of cognitive radio and discusses the difference between cognitive radio and software defined radio from the rf system s perspective the second part of the book discusses the main antenna design requirements procedures and challenges for cognitive radio the third part of the book introduces new trends in cognitive radio implementation such as the implementation of mimo antennas on cognitive radio the use of machine learning techniques to optimize the performance of a cognitive radio environment and the implementation of cognitive radar and cognitive radio in space

in internet of things iot applications wireless connectivity is a key factor particularly those that need to be in transition or where wired communication is not effective or practicable for top notch connectivity of the narrowband iot nb iot standard the 900mhz frequency is generally used by most of the vendors the radiation quality not only depends on the antenna geometry but on immediate surroundings additionally the iot product itself and the user of the product can strongly affect the resulting radiation pattern and other characteristics of the antenna on the other hand a suitable antenna should also have high efficiency and adequate bandwidth covering the desired frequency range to take these effects into consideration the whole iot product must be included in the antenna simulations antenna design for narrowband iot design analysis and applications provides the antenna design concept for narrowband internet of things applications performs a detailed analysis of the antenna and discusses the various antenna design concepts and structures covering a range of topics such as antenna design and antenna measurement systems this book is ideal for industry professionals research scholars academicians professors and students

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

this book covers the basic principles and fundamental microwave antenna types and techniques

in depth and practical coverage of design considerations for 5g antennas in microwave and millimeter wave antenna design for 5g smartphone applications two distinguished researchers deliver a holistic multidisciplinary approach to antenna design methodologies the book covers approaches ranging from sub 6ghz microwave to the millimeter wave spectrum explaining how microwave and millimeter wave 5g antennas coexist and function both independently and collaboratively the book offers coverage of key considerations for designing millimeter wave 5g antennas within space constrained mobile devices as well as practical concerns like cost fabrication yield and heat dissipation readers will also find explorations of the likely future directions of 5g antenna evolution as well as a thorough introduction to basic concepts in 5g fr1 band mobile antenna design including discussions of antenna placement element design and topologies comprehensive explorations of antenna feeding mechanisms and impedance matching including chassis considerations and effects practical discussions of frequency tunable millimeter wave 5g antenna in package fulsome treatments of compact millimeter wave 5g antenna solutions and millimeter wave antenna on display technologies for 5g mobile devices perfect for antenna microwave communications and radio frequency engineers microwave and millimeter wave antenna design for 5g smartphone applications will also benefit graduate students policymakers regulators and researchers with an interest in communications and antennas

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