

Antenna

Hubregt J. Visser

The ARRL Antenna Book American Radio Relay League, 1997

Buried Vertically Polarized UHF Antennas Institute for Telecommunication Sciences, R. G. FitzGerrell, 1970 As a result of a 10-month study funded by the Air Force Space and Missile Systems Organization and carried out by ESSA's Institute for Telecommunication Sciences, four UHF antennas were designed and their gains versus elevation angle up to 45° and horizontal plane patterns for a 5° elevation angle were measured with each antenna buried beneath 1 m of refractory concrete. Techniques were developed and used to measure loss tangent and dielectric constant of plane ground and large samples of refractory concrete versus drying time and temperature. Theoretical studies of buried annular slots, buried antenna patterns, encapsulant geometry, and dielectric-coated linear antennas paralleled the measurement effort.

A Dielectric-loaded Leaky Wave Antenna Jorgen Aasted, 1961 The design and the measured performance are described of a flat, leaky-wave antenna in which the inductive, leaky surface is backed with a slab of dielectric. The analysis is based on a transverse resonance analysis which determines the physical dimensions of the antenna for a certain specified aperture distribution. An antenna was built to compare the theoretical behavior with the measured performance. Two ways of forming the dielectric to the antenna were tested. When the dielectric was molded in place the radiation pattern agreed very well with the theoretically predicted pattern, but high losses in the casting resin gave a lower gain for the antenna than anticipated. For a machined piece of dielectric, the radiation pattern was not as close to the predicted pattern as for the molded sample, but the gain was close to the predicted value. The antenna consists of a 28-by-18-inch through filled with a dielectric material over which a sheet of parallel wires is strung. At the design frequency, 4.75 gc, the

antenna radiates a pencil beam 9.4 by 8.3 degrees wide at an angle of 54 degrees measured from the normal to the inductive surface. The beam can be scanned from approximately 75 degrees down to 12 degrees from the normal to the aperture by changing the frequency from 5.25 gc to 4.20 gc. (Author).

Modern Antenna Design Thomas A. Milligan, 2005-07-11 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

Antenna Engineering Handbook John Volakis, 2018-11-05 The gold-standard reference on the design and application of classic and modern antennas—fully updated to reflect the latest advances and technologies This new edition of the “bible of antenna engineering” has been updated to provide start-to-finish coverage of the latest innovations in antenna design and application. You will find in-depth discussion of antennas used in modern communication systems, mobile and personal wireless technologies, satellites, radar deployments, flexible electronics, and other emerging technologies, including 5G, terahertz, and wearable electronics. Antenna Engineering Handbook, Fifth Edition, is bolstered by real-world examples, hundreds of illustrations, and an emphasis on the practical aspects of antennas. Featuring 60 chapters and contributions from more than 80 renowned experts, this acclaimed resource is edited by one of the world’s leading antenna authorities. This edition features all of the classic antenna types, plus new and emerging designs, with 13 all-new chapters and important updates to nearly all chapters from past editions. Antenna Engineering Handbook, Fifth Edition, clearly explains cutting-edge applications in WLANs, automotive systems, PDAs, and handheld

devices, making it an indispensable companion for today's antenna practitioners and developers. Coverage includes: •Antenna basics and classic antennas •Design approaches for antennas and arrays •Wideband and multiband antennas •Antennas for mobile devices and PDAs, automotive applications, and aircraft •Base station and smart antennas •Beamforming and 5G antennas •Millimeter-wave and terahertz antennas •Flexible, wearable, thin film, origami, dielectric, and on-chip antennas •MIMO antennas and phased arrays •Direction-finding and GPS antennas •Active antennas •Low-profile wideband antennas •Nanoantennas •Reflectors and other satellite and radio-telescope antennas •Low-frequency, HF, VHF, UHF, ECM, and ESM antennas •Impedance-matching techniques and material characteristics •Metastructured and frequency selective surfaces •Propagation and guided structures •Computational techniques and toolsets •Indoor and outdoor measurements

ABC's of Antennas Allan Lytel, 1973

Antenna Theory Constantine A. Balanis, 1996-06-12 The Latest Resource for the Study of Antenna Theory! In a discipline that has experienced vast technological changes, this text offers the most recent look at all the necessary topics. Highlights include: * New coverage of microstrip antennas provides information essential to a wide variety of practical designs of rectangular and circular patches, including computer programs. * Applications of Fourier transform (spectral) method to antenna radiation. * Updated material on moment methods, radar cross section, mutual impedances, aperture and horn antennas, compact range designs, and antenna measurements. A New Emphasis on Design! Balanis features a tremendous increase in design procedures and equations. This presents a solid solution to the challenge of meeting real-life situations faced by engineers. Computer programs contained in the book-and accompanying software-have been developed to help engineers

analyze, design, and visualize the radiation characteristics of antennas.

Electromagnetics and Antenna Technology Alan J. Fenn, 2017-12-31 Written by a leading expert in the field, this practical new resource presents the fundamentals of electromagnetics and antenna technology. This book covers the design, electromagnetic simulation, fabrication, and measurements for various types of antennas, including impedance matching techniques and beamforming for ultrawideband dipoles, monopoles, loops, vector sensors for direction finding, HF curtain arrays, 3D printed nonplanar patch antenna arrays, waveguides for portable radar, reflector antennas, and other antennas. It explores the essentials of phased array antennas and includes detailed derivations of important field equations, and a detailed formulation of the method of moments. This resource exhibits essential derivations of equations, providing readers with a strong foundation of the underpinnings of electromagnetics and antennas. It includes a complete chapter on the details of antenna and electromagnetic test and measurement. This book explores details on 3D printed non-planar circular patch array antenna technology and the design and analysis of a planar array-fed axisymmetric gregorian reflector. The lumped-element impedance matched antennas are examined and include a look at an analytic impedance matching solution with a parallel LC network. This book provides key insight into many aspects of antenna technology that have broad applications in radar and communications.

Small Antenna Design Douglas B. Miron, 2006-03-22 As wireless devices and systems get both smaller and more ubiquitous, the demand for effective but small antennas is rapidly increasing. Small Antenna Design describes the theory behind effective small antenna design and give design techniques and examples for small antennas for different operating frequencies. Design techniques are given for the entire radio spectrum, from a very hundred kilohertz to the gigahertz range. Unlike

other antenna books which are heavily mathematical and theoretical, Douglas Miron keeps mathematics to the absolute minimum required to explain design techniques. Ground planes, essential for operation of many antenna designs, are extensively discussed. Author's extensive experience as a practicing antenna design engineer gives book a strong hands-on emphasis. Covers antenna design techniques from very low frequency (below 300 kHz) to microwave (above 1 GHz) ranges. Special attention is given to antenna design for mobile/portable applications such as cell phones, WiFi, etc.

ANTENNA THEORY AND DESIGN, REVISED ED Robert S Elliot, 2006-08 Market_Desc: · Advance courses in Antenna Theory and Design courses for seniors and first year graduate students in Electrical Engineering
Special Features: · Provides fundamental methods of analysis that can be used to predict the electromagnetic behavior of nearly everything that radiates· Provides insightful examples of the application of theory to real design problems. It is beautifully and clearly written and is of the highest technical quality· This is the leading text on antenna arrays and the author is the leading researcher in this field. The text frequently refers to the historical development of antennas, which no other text does
About The Book: This text is the classic work in Antenna Theory and Design and is just as relevant to the field today as it was when first published in 1981. It provides an analytic treatment, with supporting experimental evidence, of the major topics of concern to antenna designers. This is a broad-ranging text that covers most of the relevant topics in antenna theory providing fundamental methods of analysis that can be used to predict the electromagnetic behavior of nearly everything that radiates. This stress on the fundamentals is what makes the text valuable twenty-one years after its first publication. It not only presents the theory, but goes on to show very insightful examples of its application to real design problems.

Practical Antenna Handbook 5/e Joseph Carr, George Hippisley, 2011-10-25 THE DEFINITIVE ANTENNA REFERENCE--FULLY REVISED AND EXPANDED! Design and build your own antennas with the help of this unique guide. Updated and revised to provide clear answers to questions frequently asked by hobbyists and electronics technicians, Practical Antenna Handbook, Fifth Edition blends theoretical concepts with hands-on experience--requiring only high school mathematics Reorganized to flow logically from broad physical principles to specific antenna design and construction techniques, the book begins by covering the fundamentals. Then the half-wave dipole is discussed both as an excellent antenna in its own right and as a conceptual tool for predicting the performance of other designs. Transmission line impedance matching techniques--and a companion Smith chart tutorial--lead into must have accessories for tuning, monitoring, and troubleshooting antenna system performance. Other tools, such as antenna modeling software and network analyzer add-ons for PCs and Macs, are addressed, and concluding chapters offer fresh insights into support structures and installation techniques. NEW TOPICS COVERED INCLUDE: Characteristics of all-driven and parasitic arrays Beverages and small MF/HF receiving loops Top-loaded shunt-fed towers and other verticals Theory and design of Yagi beams Effect of real ground on propagation and antenna patterns, impedance, and efficiency Lightning protection and four kinds of ground systems Zoning and restrictive covenants COVERS A WIDE VARIETY OF ANTENNAS: Dipoles and inverted-Vs Quads, delta, and NVIS loops Wire arrays (bobtail curtain, half-square, rhombic) Verticals and shunt-fed towers Rotatable Yagi beams MF/HF receiving antennas (flag, pennant, K9AY, Beverage) Mobile and portable antennas VHF/UHF/microwave antennas And many more GO TO WWW.MHPROFESSIONAL.COM/CARR5 FOR: * Tables of worldwide geographic coordinates and antenna dimensions vs. frequency * Supplier updates * Author's blog * Additional photographs and schematics * Links to tutorials and specialized

calculators

Advanced Antenna Systems for 5G Network Deployments Henrik Asplund, David Astely, Peter von Butovitsch, Thomas Chapman, Mattias Frenne, Farshid Ghasemzadeh, Måns Hagström, Billy Hogan, George Jongren, Jonas Karlsson, Fredric Kronestedt, Erik Larsson, 2020-06-24
Advanced Antenna Systems for 5G Network Deployments: Bridging the Gap between Theory and Practice provides a comprehensive understanding of the field of advanced antenna systems (AAS) and how they can be deployed in 5G networks. The book gives a thorough understanding of the basic technology components, the state-of-the-art multi-antenna solutions, what support 3GPP has standardized together with the reasoning, AAS performance in real networks, and how AAS can be used to enhance network deployments. Explains how AAS features impact network performance and how AAS can be effectively used in a 5G network, based on either NR and/or LTE Shows what AAS configurations and features to use in different network deployment scenarios, focusing on mobile broadband, but also including fixed wireless access Presents the latest developments in multi-antenna technologies, including Beamforming, MIMO and cell shaping, along with the potential of different technologies in a commercial network context Provides a deep understanding of the differences between mid-band and mm-Wave solutions

Mobile Antenna Systems Handbook Kyohei Fujimoto, 2008 This extensively revised and expanded edition of the Artech bestseller Mobile Antenna Systems Handbook puts the very latest technologies, design and analysis procedures, and applications at your command. It features all-new chapters on smart antennas, MIMO systems, and antennas for recently deployed mobile systems such as RFID, UWB, and terrestrial digital TV broadcasting, and provides a wealth of problem-solving guidance for tackling everything from propagation obstacles to SAR safety issues. Like the previous

editions, this ultimate one-stop reference is designed to save you a mountain of work. You get hands-on expertise for every type of mobile antenna base station and terminal system, including its theory of operation, application strengths and weaknesses, performance characteristics, design procedures, analysis techniques, and optimization methods, complete with examples and worked-out calculations at every step. The material is further clarified with 567 diagrams, charts, and photos, bringing mobile antenna selection, design, and construction into clear focus. What's more, this resource includes a detailed glossary of antennas and their applications to help you zero in on the right antenna for any job with a flip of the page. From integrating MIMO antennas into handsets, to expanding system capacities with smart antennas, this information-packed resource helps you evaluate design and configuration options, locate crucial data and calculations, perform key analyses, and solve challenges standing in the way of your desired results. It serves as an indispensable reference, helping you design more powerful, versatile, and compact wireless mobile antenna systems.

Aperture Antennas for Millimeter and Sub-Millimeter Wave Applications Artem Boriskin, Ronan Sauleau, 2017-09-05 This book presents the technology of millimetre waves and Terahertz (THz) antennas. It highlights the importance of moderate and high-gain aperture antennas as key devices for establishing point-to-point and point-to-multipoint radio links for far-field and near-field applications, such as high data-rate communications, intelligent transport, security imaging, exploration and surveillance systems. The book provides a comprehensive overview of the key antenna technologies developed for the mm wave and THz domains, including established ones – such as integrated lens antennas, advanced 2D and 3D horn antennas, transmit and reflect arrays, and Fabry-Perot antennas – as well as emerging metasurface antennas for near-field and far-field applications. It describes the pros and cons of each antenna technology in comparison with other

available solutions, a discussion supplemented by practical examples illustrating the step-by-step implementation procedures for each antenna type. The measurement techniques available at these frequency ranges are also presented to close the loop of the antenna development cycle. In closing, the book outlines future trends in various antenna technologies, paving the way for further developments. Presenting content originating from the five-year ESF research networking program 'Newfocus' and co-authored by the most active and highly cited research groups in the domain of mm- and sub-mm-wave antenna technologies, the book offers a valuable guide for researchers and engineers in both industry and academia.

Antennas Yi Huang, 2021-09-14 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.

A Practical Method for Determining the Directivity of H. F. and V. H. F. Antenna Systems C. S. L. Keay, R. E. Gray, 1964

A V-type Aircraft Antenna Raymond E. McCormick, Kennard E. Voyles, Blanchard Boyle (H.), 1952

Array and Phased Array Antenna Basics Hubregt J. Visser, 2006-02-03 Reflecting a growing interest in phased array antenna systems, stemming from radar, radio astronomy, mobile communications and satellite broadcasting, *Array and Phased Array Antenna Basics* introduces the principles of array and phased array antennas. Packed with first-hand practical experience and worked-out examples, this is a valuable learning tool and reference source for those wishing to improve their understanding of basic array antenna systems without relying heavily on a thorough knowledge of electromagnetics or antenna theory. Features a general introduction to antennas and

explains the array antenna principle through discussion of the physical characteristics rather than the theory Explores topics often not covered in antenna textbooks, such as active element pattern, array feeding, means of phase changing, array antenna characterisation, sequential rotation techniques and reactively loaded arrays Guides the reader through the necessary mathematics, allowing them to move onto specialist books on array and phased array antennas with a greater understanding of the topic Supported by a companion website on which instructors and lecturers can find electronic versions of the figures An ideal introduction for those without a background in antennas, this clear, concise volume will appeal to technicians, researchers and managers working in academia, government, telecommunications and radio astronomy. It will also be a valuable resource for professionals and postgraduates with some antenna knowledge.

Antenna Theory and Applications Hubregt J. Visser, 2012-01-17 This comprehensive text on antenna theory explains the origin of radiation and discusses antenna parameters in-depth This book offers an in-depth coverage of fundamental antenna theory, and shows how to apply this in practice. The author discusses electromagnetic radiation and antenna characteristics such as impedance, radiation pattern, polarization, gain and efficiency. In addition, the book provides readers with the necessary tools for analyzing complex antennas and for designing new ones. Furthermore, a refresher chapter on vector algebra, including gradient, divergence and curl operation is included. Throughout the book ample examples of employing the derived theory are given and all chapters are concluded with problems, giving the reader the opportunity to test his/her acquired knowledge. Key Features: Covers the mathematical and physical background that is needed to understand electromagnetic radiation and antennas Discusses the origin of radiation and provides an in-depth explanation of antenna parameters Explores all the necessary steps in antenna analysis allowing the reader to

understand and analyze new antenna structures Contains a chapter on vector algebra, which is often a stumbling block for learners in this field Includes examples and a list of problems at the end of each chapter Accompanied by a website containing solutions to the problems (for instructors) and CST modeling files (www.wiley.com/go/visser_antennas) This book will serve as an invaluable reference for advanced (last year Bsc, Msc) students in antenna and RF engineering, wireless communications, electrical engineering, radio engineers and other professionals needing a reference on antenna theory. It will also be of interest to advanced/senior radio engineers, designers and developers.

Antenna Engineering Boris Levin, 2017-03-27 The book deals with theoretical and experimental research of antennas. The presentation is based on the electromagnetic theory. It begins with the theory of thin antennas. Thin antennas represent one of the main types of radiators, thus the theory of thin antennas is the basis of the antennas analysis. Special attention is paid to the integral equation of Leontovich-Levin for a current along a straight thin-walled metal cylinder, which is equivalent to the equation of Hallen with a precise kernel. Together with the analysis of various types of antennas, the book deals with the problems of synthesis including the creation a wide-band radiator by means of determining of the types and the magnitudes of concentrated loads, which are connected along a linear radiator and create in a given frequency band high electrical performance. Problems of antenna engineering are discussed in the second half of the book, including the results of application of a compensation method for the protection of humans against irradiation and structural features of ship antennas.

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