

Fixed and Mobile Terminal Antennas



A. Kumar

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Robert A. Sainati



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Solid Dielectric Horn Antennas Carlos Salema, Carlos Fernandes, Rama Kant Jha, 1998 The role of dielectric antennas in advanced wireless telecom systems design is becoming more and more important particularly due to the increasing use of higher radiowave frequencies This unique new reference helps you strengthen your understanding of the underlying principles design criteria and procedures and radiation mechanisms associated with the various types of dielectric antennas in use today

Antenna Design with Fiber Optics Akhileshwar Kumar, 1996 Fiber optic cables are an attractive alternative to conventional coaxial cables and waveguide beamforming networks because they offer larger bandwidth capabilities immunity to electromagnetic interference increased temperature tolerance and smaller transmission losses

Fixed and Mobile Terminal Antennas Akhileshwar Kumar, 1991-01-01 This critical review looks at state of the art mobile and fixed antennas combining theory and practical design data The text examines the subject of mobile terminals from the perspectives of market demand systems concepts services applications and space service areas including possible MSAT antenna configurations and L band beam coverage for North America This book should appeal to senior engineers managers designers and scientists in the field of mobile satellite communication

Waveguide Components for Antenna Feed Systems Jaroslav Uher, Jens Bornemann, Uwe Rosenberg, 1993 This book delivers an in depth examinations of the three basic field theoretical methods used for the design aid of different waveguide components You ll find CAD algorithms examples of their applications and operational principles of various components used in antenna feed systems

Analysis of Radome-enclosed Antennas D. J. Kozakoff, 1997 Here are the analytical tools you need to evaluate and predict the effects of a radome on an enclosed antenna including transmission loss boresight error or boresight error slope depolarization or a degradation of the antenna sidelobe levels This package features a comprehensive overview of radome wall concepts and materials and presents ray trace approaches to help you easily achieve solutions using your PC It s accompanied by interactive software that lets you compute antenna patterns and boresight error of gimbaled radar antennas in a multilayer radome

Integral Equation Methods for Electromagnetics Nobuaki Kumagai, N. Morita, Joseph R. Mautz, 1990 Details the methods for solving electromagnetic wave problems using the integral equation formula This text limits the use of mathematics to the level of standard undergraduate students and explains all the derivations and transformations of equations in detail

Subject Guide to Books in Print, 1997 **Antenna Engineering Using Physical Optics** Leo Diaz, Thomas A. Milligan, 1996 Spend less time setting up complex antenna design problems and improve the accuracy of your results with this practical new book and software package It shows you how to combine physical optics modeling techniques with the free space dyadic Green s function to quickly and easily calculate antenna patterns and diffraction from nearby objects letting your PC do the specialized math for you

[CAD of Microstrip Antennas for Wireless Applications](#) Robert A. Sainati, 1996 Increasing demand for commercial applications requiring small low cost easy to use RF microwave systems is

driving innovations in antenna technology This how to book explains why microstrip antennas are the solution for the future

Analysis Methods for Electromagnetic Wave Problems Eikichi Yamashita,1990 Here are the newest methods for using computers to design linear antennas and microwave printed circuits Learn how to use supercomputers to apply the FD TD and the FE methods and how to develop computation programs Includes the methods of antenna analysis with integral equation physical optics approximation electromagnetic wave scattering due to random surface eigen function expansion and rectangular boundary division Features practice problems and answers plus examples of actual calculation programs With 132 diagrams and 1121 equations

Broadband Patch Antennas Jean-François Zürcher,Fred E. Gardiol,1995 This book describes both theoretical and practical aspects of advanced broadband patch antennas providing a comprehensive review of the state of the art in the field Modern antenna techniques are discussed for single patches dual linear and circular polarizations designs and arrays used in mobile communications Includes 88 equations 115 figures and 200 references

Analysis, Design, and Measurement of Small and Low-profile Antennas Kazuhiro Hirasawa,1992 Tutorial in nature this book is based on a series of papers presented at a workshop in Japan It constitutes the first single volume guide to the basic methods of analyzing microstrip patch antennas and the characteristics of rectangular circular and arbitrarily shaped patch antennas Supported by 273 equations tables and illustrations this book should prove a useful tool for anyone doing applied research in antennas

Understanding Electromagnetic Scattering Using the Moment Method Randy Bancroft,1996 Learn how to quickly solve electromagnetic scattering problems using the Moment Method with this valuable self study package The clearly written book provides examples of Moment Method problems reviews the numerical techniques required to solve them and demonstrates the use of the moment method in solving scattering from basic shapes including wires two dimensional strips and contours and flat plates

American Book Publishing Record ,1997 Passive Optical Components for Optical Fiber Transmission Norio Kashima,1995 This work discusses connection technologies used for both single and multimode fibres and explains multifibre connections such as mass fusion splice and multifibre connectors Coverage includes information on fluoride glass fibres doped fibres EDFA and the components

Whitaker's Books in Print ,1998 **Subject Guide to Children's Books in Print 1997** Bowker Editorial Staff,R R Bowker Publishing,1996-09 *Electromagnetic Fields in Multilayered Structures* Arun Bhattacharyya,1994 This self contained book provides techniques for use in determining electromagnetic fields in layered dielectric media You ll find useful problem sets and practical examples with solutions as well as a simplified model for approaching problems

The CG-FFT Method Manuel F. Cátedra,1995 This work presents a comprehensive description of the basic principles and practical application of the conjugate gradient method in combination with fast Fourier transform CG FFT It provides extensive fundamental analyses of basic spectral methods and conjugate gradient methods The presentation details the relationship between applied electromagnetics and linear system theory for the analysis of radiation and scattering from two dimensional and three dimensional bodies with arbitrary

geometry and material composition plane multilayer or volumetric periodic structures and metallic patches defined over body of revolution BOR surfaces Electromagnetic Waves in Chiral and Bi-isotropic Media Ismo V. Lindell, 1994 Learn how chiral and BI media affect electromagnetic fields and wave propagation and how to apply the theory to basic problems in waveguide antenna and scattering analysis with this book It provides you with effective methods of measurement and solutions to electromagnetic problems involving interaction between complex materials and microwave applications

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