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propagation of waves focuses on the wave propagation around the earth which is influenced by its curvature surface irregularities and by passage through atmospheric layers that may be refracting absorbing or ionized this book begins by outlining the behavior of waves in the various media and at their interfaces which simplifies the basic phenomena such as absorption refraction reflection and interference applications to the case of the terrestrial sphere are also discussed as a natural generalization following the deliberation on the diffraction of the ground wave around the earth this text summarizes the role and properties of the troposphere and ionosphere from a general physical point of view examples and maps are provided to illustrate the use of the various methods in the determination of ranges or favorable wavelengths a brief discussion on problems encountered in the field of space communications is also included this publication is a good source for students and individuals researching on wave propagation specifically on the principles of radiation and propagation in a homogeneous isotropy and lossless dielectric

this book describes the physical mechanisms involved in the propagation of electromagnetic waves in the radiofrequency range inside and outside buildings in the terrestrial and near space environments with a special focus on mobile radio communication it combines a theoretical and an experimental approaches with an understanding of the physical environment through adequate formulations of the laws of electromagnetism it should thus provide the background needed by advanced students and development engineers for the conception of high quality and reliable telecommunication systems

although the fundamental concepts of maxwell remain for the most part unchanged since their inception electromagnetic theory has continued to evolve extending most significantly to shorter and shorter wavelengths this has revealed many of nature s mysteries and led to a myriad of applications that have literally changed our world the second edition of electromagnetic theory and wave propagation begins by presenting the basic concepts of electromagnetic theory then explores the field s extended areas primarily discovered after

world war ii the author elaborates on the work of pioneer investigators particularly with respect to the identity of light and electromagnetic waves and then derives the fundamental laws of optics from electromagnetic considerations he has also added several new topics including meteor astronomy remote sensing and most notably discussions on relativistic electrodynamics

this work treats the essential elements of radio wave propagation without requiring recourse to advanced electromagnetic concepts and equations however it provides sufficient detail to allow those concerned with wireless systems to acquire quickly a practical working knowledge of the important concepts radio wave propagation is placed in a practical context by considering the design aspects of communications systems at microwave frequencies a fuller consideration of the electromagnetic properties of materials is given late in the book rather than as an introductory chapter

radio wave propagation consolidated summary technical report of the committee on propagation of the national defense research committee presents all the scientific information and report of experiments this book discusses the problems encountered in the propagation of radio waves organized into three volumes this book begins with an overview of the technical developments in the study of tropospheric propagation this text then outlines the general theory of standard and nonstandard propagation together with descriptions and results of transmission experiments designed to test the theory other chapters consider the more unusual problems concerning the radar behavior of targets this book discusses as well the problems of radio wave propagation in the standard atmosphere at frequencies above 30 megacycles the final chapter deals with the selection and utilization of local terrain features that affect propagation and the performance of equipment this book is a valuable resource for scientists and engineers in the field of radio wave propagation

this monograph describes the phenomena associated with the propagation of electromagnetic and acoustic waves through atmospheric turbulence geared toward specialists in radiophysics and atmospheric acoustics and optics the treatment is also suitable for advanced undergraduates and graduate students the author stresses applications to phase and amplitude fluctuations scintillation of stars radio scattering and

other problems part i covers topics from the theory of random fields and turbulence theory including statistical description part ii on the scattering of waves in the turbulent atmosphere is supplemented by an appendix on scattering of acoustic radiation part iii offers a detailed presentation of line of sight propagation of acoustic and electromagnetic waves through a turbulent medium part iv concludes the text with a comparison of theory with experimental data

wave propagation and group velocity contains papers on group velocity which were published during the first world war and are missing in many libraries it introduces three different definitions of velocities the group velocity of lord rayleigh the signal velocity of sommerfeld and the velocity of energy transfer which yields the rate of energy flow through a continuous wave and is strongly related to the characteristic impedance these three velocities are identical for nonabsorbing media but they differ considerably in an absorption band some examples are discussed in the last chapter dealing with guided waves and many other cases of application of these definitions are quoted these problems have come again into the foreground in connection with the propagation of radio signals and radar reflection in the heaviside layers requires a real knowledge of all these different definitions group velocity also plays a very important role in wave mechanics and corresponds to the speed of a particle the present book should be very useful to physicists and radio engineers and should give them a good basis for new discussions and applications

this book constitutes the first single volume english language treatise on electromagnetic wave propagation across the frequency spectrum

this is the second work of a set of two volumes on the phenomena of wave propagation in nonreacting and reacting media the first entitled wave propagation in solids and fluids published by springer verlag in 1988 deals with wave phenomena in nonreacting media solids and fluids this book is concerned with wave propagation in reacting media specifically in electro magnetic materials since these volumes were designed to be relatively self contained we have taken the liberty of adapting some of the pertinent material especially in the theory of hyperbolic partial differential equations concerned with electromagnetic wave propagation variational methods and hamilton jacobi theory to the

phenomena of electromagnetic waves the purpose of this volume is similar to that of the first except that here we are dealing with electromagnetic waves we attempt to present a clear and systematic account of the mathematical methods of wave phenomena in electromagnetic materials that will be readily accessible to physicists and engineers the emphasis is on developing the necessary mathematical tech niques and on showing how these methods of mathematical physics can be effective in unifying the physics of wave propagation in electromagnetic media chapter 1 presents the th electromagnetic fields which involves a discussion of faraday s laws maxwell s equations and their appli cations to electromagnetic wave propagation under a variety of conditions

this textbook offers the first unified treatment of wave propagation in electronic and electromagnetic systems and introduces readers to the essentials of the transfer matrix method a powerful analytical tool that can be used to model and study an array of problems pertaining to wave propagation in electrons and photons it is aimed at graduate and advanced undergraduate students in physics materials science electrical and computer engineering and mathematics and is ideal for researchers in photonic crystals negative index materials left handed materials plasmonics nonlinear effects and optics peter markos and costas soukoulis begin by establishing the analogy between wave propagation in electronic systems and electromagnetic media and then show how the transfer matrix can be easily applied to any type of wave propagation such as electromagnetic acoustic and elastic waves the transfer matrix approach of the tight binding model allows readers to understand its implementation quickly and all the concepts of solid state physics are clearly introduced markos and soukoulis then build the discussion of such topics as random systems and localized and delocalized modes around the transfer matrix bringing remarkable clarity to the subject total internal reflection brewster angles evanescent waves surface waves and resonant tunneling in left handed materials are introduced and treated in detail as are important new developments like photonic crystals negative index materials and surface plasmons problem sets aid students working through the subject for the first time

ground breaking contribution to the literature widely used by scientists engineers and students topics include theory of wave propagation in randomly inhomogeneous media ray and wave theories of scattering at random inhomogeneities more 1960 edition

this series of books deals with the mathematical modeling and computational simulation of complex wave propagation phenomena in science and engineering this first volume of the series introduces the basic mathematical and physical fundamentals and it is mainly intended as a reference guide and a general survey for scientists and engineers it presents a broad and practical overview of the involved foundations being useful as much in industrial research development and innovation activities as in academic labors

written for professional engineers and students who specialize in antenna communication and radar systems this authoritative book provides a thorough introduction to the basic principles of electromagnetic wave propagation of radio frequencies in real world conditions it serves as an invaluable daily reference for practitioners in the field and also as a complete organized text on the subject this comprehensive resource covers a wide range of essential topics from the classification of radio waves electromagnetic wave theory and antennas for rf radio links to the impact of the earth surface on the propagation of ground waves atmospheric affects in radio wave propagation and radio wave reception the book is packed with over 1 105 time saving equations and key discussions are supported with more than 190 illustrations moreover each chapter includes problem sets to test the readerocos mastery of the material

in this book the author draws on his broad experience to describe both the theory and the applications of wave propagations the contents are presented in four parts and the sequence of these parts reflect the development of ionospheric and propagational research in areas such as space research geophysics and communications the first part of the book presents an outline of the theory of electromagnetic waves propagating in a cold electron plasma for reference vector analysis dyadics and eigenvalues introduced in this part are presented in the appendices practical aspects of radio wave propagation are the subject of the second part the typical conditions in different frequency ranges are discussed and the irregular features of the ionospheric structure such as sound and gravity waves are also considered warm plasma and the effects of ions are considered in the third part which includes a discussion of sound like waves in electron and ion plasmas nonlinear effects and instabilities are described in the fourth part

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