

# Electromagnetic Wave Propagation Through Rain

**Robert K. Crane**

Wiley Series in Electrodynamics  
Jin-Fa Liang, Series Editor

# Electromagnetic Wave Propagation Through Rain

**Shao-Qiu Xiao, Ming-Tuo Zhou**



## **Electromagnetic Wave Propagation Through Rain:**

*Electromagnetic Wave Propagation Through Rain* Robert K. Crane, 1996-02-22 *Electromagnetic Wave Propagation Through Rain* was written to help system designers in such fields as meteorology telecommunications radar and aircraft guidance systems face the challenge of predicting and compensating for these potentially serious weather related effects on communication or remote sensing systems around the world and above the surface of the earth *Electromagnetic Wave Propagation Through Rain* describes and analyzes the interaction between electromagnetic waves and various forms of precipitation Interdisciplinary in approach this book provides a solid in depth treatment of the underlying physics as well as applications in communications the aerospace industry and meteorology *Electromagnetic Waves* Vitaliy Zhurbenko, 2011-06-21 This book is dedicated to various aspects of electromagnetic wave theory and its applications in science and technology The covered topics include the fundamental physics of electromagnetic waves theory of electromagnetic wave propagation and scattering methods of computational analysis material characterization electromagnetic properties of plasma analysis and applications of periodic structures and waveguide components and finally the biological effects and medical applications of electromagnetic fields **Introduction to RF Propagation** John S. Seybold, 2005-10-03 An introduction to RF propagation that spans all wireless applications This book provides readers with a solid understanding of the concepts involved in the propagation of electromagnetic waves and of the commonly used modeling techniques While many books cover RF propagation most are geared to cellular telephone systems and therefore are limited in scope This title is comprehensive it treats the growing number of wireless applications that range well beyond the mobile telecommunications industry including radar and satellite communications The author's straightforward clear style makes it easy for readers to gain the necessary background in electromagnetics communication theory and probability so they can advance to propagation models for near earth indoor and earth space propagation Critical topics that readers would otherwise have to search a number of resources to find are included RF safety chapter provides a concise presentation of FCC recommendations including application examples and prepares readers to work with real world propagating systems Antenna chapter provides an introduction to a wide variety of antennas and techniques for antenna analysis including a detailed treatment of antenna polarization and axial ratio the chapter contains a set of curves that permit readers to estimate polarization loss due to axial ratio mismatch between transmitting and receiving antennas without performing detailed calculations Atmospheric effects chapter provides curves of typical atmospheric loss so that expected loss can be determined easily Rain attenuation chapter features a summary of how to apply the ITU and Crane rain models Satellite communication chapter provides the details of earth space propagation analysis including rain attenuation atmospheric absorption path length determination and noise temperature determination Examples of widely used models provide all the details and information needed to allow readers to apply the models with confidence References provided throughout the book enable

readers to explore particular topics in greater depth. Additionally, an accompanying Wiley ftp site provides supporting MathCad files for select figures in the book. With its emphasis on fundamentals, detailed examples, and comprehensive coverage of models and applications, this is an excellent text for upper-level undergraduate or graduate students or for the practicing engineer who needs to develop an understanding of propagation phenomena.

**Atmospheric Modelling and Millimetre Wave Propagation** G. Brussaard, P.A. Watson, 1994-12-31 This book outlines the fundamental physics of radiowave interaction in the earth's atmosphere at microwave and millimetre wavelengths and describes the latest techniques for predicting the performance of radio systems operating in these bands.

*Wave Propagation and Scattering in Random Media* Akira Ishimaru, 2013-06-11 *Wave Propagation and Scattering in Random Media* Volume 1: Single Scattering and Transport Theory presents the fundamental formulations of wave propagation and scattering in random media in a unified and systematic manner, as well as useful approximation techniques applicable to a variety of different situations. The emphasis is on single scattering theory and transport theory. The reader is introduced to the fundamental concepts and useful results of the statistical wave propagation theory. This volume is comprised of 13 chapters organized around three themes: waves in random scatterers, waves in random continua, and rough surface scattering. The first part deals with the scattering and propagation of waves in a tenuous distribution of scatterers using the single scattering theory and its slight extension to explain the fundamentals of wave fluctuations in random media without undue mathematical complexities. Many practical problems of wave propagation and scattering in the atmosphere, oceans, and other random media are discussed. The second part examines transport theory, also known as the theory of radiative transfer, and includes chapters on wave propagation in random particles, isotropic scattering, and the plane parallel problem. This monograph is intended for engineers and scientists interested in optical, acoustic, and microwave propagation and scattering in atmospheres, oceans, and biological media.

**Microwave Propagation and Remote Sensing** Pranab Kumar Karmakar, 2017-12-19 Because prevailing atmospheric tropospheric conditions greatly influence radio wave propagation, above 10 GHz the unguided propagation of microwaves in the neutral atmosphere can directly impact many vital applications in science and engineering. These include transmission of intelligence and radar and radiometric applications used to probe the atmosphere, among others. Where most books address either one or the other, *Microwave Propagation and Remote Sensing: Atmospheric Influences with Models and Applications* melds coverage of these two subjects to help readers develop solutions to the problems they present. This reference offers a brief elementary account of microwave propagation through the atmosphere and discusses radiometric applications in the microwave band used to characterize and model atmospheric constituents, which is also known as remote sensing. Summarizing the latest research results in the field, as well as radiometric models and measurement methods, this book covers topics including free space propagation, reflection, interference, polarization, and other key aspects of electromagnetic wave propagation. Radio refraction and its effects on propagation delay, methodology of estimating water vapor attenuation,

using radiosonde data Knowledge of rain structures and use of climatological patterns to estimate measure attenuation of rain snow fog and other prevalent atmospheric particles and human made substances Dual multifrequency methodology to deal with the influence of clouds on radiometric attenuation Deployment of microwaves to ascertain various tropospheric conditions Composition and characteristics of the troposphere to help readers fully understand microwave propagation Derived parameters of water free space propagation and conditions and variable constituents such as water vapor and vapor pressure density and ray bending

**Radio Wave Propagation** United States. Office of Scientific Research and Development. National Defense Research Committee, 1949 Radiowellen Frequenzverteilung Funkwellen *Millimeter Wave Technology in Wireless PAN, LAN, and MAN* Shao-Qiu Xiao, Ming-Tuo Zhou, 2008-05-28 Driven by the demand for high data rate millimeter wave technologies with broad bandwidth are being explored in high speed wireless communications These technologies include gigabit wireless personal area networks WPAN high speed wireless local area networks WLAN and high speed wireless metropolitan area networks WMAN As a result of this

**Ground-Based Microwave Radiometry and Remote Sensing** Pranab Kumar Karmakar, 2013-11-04 The ability to effectively monitor the atmosphere on a continuous basis requires remote sensing in microwave Written for physicists and engineers working in the area of microwave sensing of the atmosphere Ground Based Microwave Radiometry and Remote Sensing Methods and Applications is completely devoted to ground based remote sensing This text covers the fundamentals of microwave remote sensing and examines microwave radiometric measurements and their applications The book discusses the atmospheric influences on the electromagnetic spectrum addresses the measurement of incoherent electromagnetic radiation from an object obeying the laws of radiation fundamentals and explores the height limits in both the water vapor band and the oxygen band The author describes the measurement technique of water vapor in the polar region details studies of the measurement of integrated water vapor content by deploying a microwave radiometer and presents several real time pictures of radiometric and disdrometer measurements Includes integrated water vapor and cloud liquid water models Contains measurements in adverse weather conditions Illustrates measurement technique in the Antarctic and Arctic regions Describes rain models in different locations including tropical temperate regions along with radiometric measurement techniques Presents a definite model for measurement of propagation path delay The book summarizes the latest research results obtained in the area of measurements and modeling describes the atmospheric influences on electromagnetic spectrum along with different gaseous and cloud models and provides examples of radiometric retrievals from a variety of dynamic weather phenomena

Fixed Broadband Wireless System Design Harry R. Anderson, 2003-03-14 Fixed broadband networks can provide far higher data rates and capacity than the currently envisioned 3G and 4G mobile cellular systems Achieving higher data rates is due to the unique technical properties of fixed systems in particular the use of high gain and adaptive antennas wide frequency bands dynamic data rate and channel resource allocation and advanced multiple access techniques Fixed Broadband Wireless

System Design is a comprehensive presentation of the engineering principles advanced engineering techniques and practical design methods for planning and deploying fixed wireless systems including Point to point LOS and NLOS network design Point to point microwave link design including active and passive repeaters Consecutive point and mesh network planning Advanced empirical and physical propagation modeling including ray tracing Detailed microwave fading models for multipath and rain NLOS indoor and outdoor propagation and fading models Propagation environment models including terrain morphology buildings and atmospheric effects Novel mixed application packet traffic modeling for dimensioning network capacity Narrow beam wide beam and adaptive smart antennas MIMO systems and space time coding Channel planning including fixed and dynamic channel assignment and dynamic packet assignment IEEE 802 11b and 802 11a WLAN system design Free space optic FSO link design At present there are no titles available that provide such a concise presentation of the wide variety of systems frequency bands multiple access techniques and other factors that distinguish fixed wireless systems from mobile wireless systems Fixed Broadband Wireless System Design is essential reading for design system and RF engineers involved in the design and deployment of fixed broadband wireless systems fixed wireless equipment vendors and academics and postgraduate students in the field

**Interference Analysis** John Pahl, 2016-04-12 The book describes how interference can be managed so that radio systems co exist without harmful mutual effects within a finite amount of spectrum This is timely in view of the increasing proliferation of wireless systems It covers both the processes such as regional or international coordination as well as the engineering principles Written by an author with extensive experience in the industry it describes in detail the main methodologies for calculating or computing the interference between radio systems of the same type and also between radio systems of different types

*Radar in Meteorology* David Atlas, 2015-03-30 This fully illustrated volume covers the history of radar meteorology deals with the issues in the field from both the operational and the scientific viewpoint and looks ahead to future issues and how they will affect the current atmosphere With over 200 contributors the volume is a product of the entire community and represents an unprecedented compendium of knowledge in the field

**Satellite Communications Systems Engineering** Louis J. Ippolito, Jr., 2017-05-01 The first edition of Satellite Communications Systems Engineering Wiley 2008 was written for those concerned with the design and performance of satellite communications systems employed in fixed point to point broadcasting mobile radio navigation data relay computer communications and related satellite based applications This welcome Second Edition continues the basic premise and enhances the publication with the latest updated information and new technologies developed since the publication of the first edition The book is based on graduate level satellite communications course material and has served as the primary text for electrical engineering Masters and Doctoral level courses in satellite communications and related areas Introductory to advanced engineering level students in electrical communications and wireless network courses and electrical engineers communications engineers systems engineers and wireless network engineers looking for a refresher

will find this essential text invaluable      *Scientific and Technical Aerospace Reports* ,1994-08      **ICCCE 2018** Amit Kumar,Stefan Mozar,2018-08-31 This book comprises selected articles from the International Communications Conference ICC 2018 held in Hyderabad India in 2018 It offers in depth information on the latest developments in voice data image and multimedia processing research and applications and includes contributions from both academia and industry      Nonlinear and Complex Dynamics José António Tenreiro Machado,Dumitru Baleanu,Albert C. J. Luo,2011-08-28 Nonlinear Dynamics of Complex Systems describes chaos fractal and stochasticities within celestial mechanics financial systems and biochemical systems Part I discusses methods and applications in celestial systems and new results in such areas as low energy impact dynamics low thrust planar trajectories to the moon and earth to halo transfers in the sun earth and moon Part II presents the dynamics of complex systems including bio systems neural systems chemical systems and hydro dynamical systems Finally Part III covers economic and financial systems including market uncertainty inflation economic activity and foreign competition and the role of nonlinear dynamics in each      **Introduction to PCM Telemetry Systems** Stephen Horan,2018-10-03 Telemetry systems and applications have moved far beyond the space flight telemetry most people have heard of to cutting edge uses across a broad range of disciplines including industry medicine and meteorology To fully understand and participate in the acquisition of data this technology makes possible scientists in these fields along with engineers new to telemetry require some background in the concepts hardware and software that makes the technology so valuable Introduction to PCM Telemetry Systems Second Edition summarizes the techniques and terminology used in sending data and control information between users and the instruments that collect and process the data It gives an overall systems introduction to the relevant topics in three primary areas system interfaces data transport timing and synchronization and data transmission techniques The topics addressed include sensor characteristics user interface design data filtering data framing statistical analysis telemetry standards time code standards modulation techniques and radio propagation To reinforce understanding each chapter includes exercises Rather than focusing on design specifics which can change so rapidly with evolving technologies the author centers his discussions on concepts and standards This edition incorporates the latest standards LabVIEW based examples of telemetry and command processing and simulations using multiSim and Commsim      **NASA Technical Note** United States. National Aeronautics and Space Administration,1976

**Weather Radar Polarimetry** Guifu Zhang,2016-08-19 This book presents the fundamentals of polarimetric radar remote sensing through understanding wave scattering and propagation in geophysical media filled with hydrometers and other objects The text characterizes the physical statistical and electromagnetic properties of hydrometers and establishes the relations between radar observables and physical state parameters It introduces advanced remote sensing techniques such as polarimetric phased array radar and retrieval methods for physical parameters The book also illustrates applications of polarimetric radar measurements in hydrometer classification particle size distribution retrievals microphysical

parameterization and weather quantification and forecast     **TAO** ,2008



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