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Radio Navigation - Radio Wave  
Propagation ~~Antenna Theory~~  
~~Propagation~~ PROPAGATION OF  
ELECTROMAGNETIC WAVES PART 01  
Home Book Review: US Army RADIO  
WAVE PROPAGATION AND  
ANTENNAS by U.S. Army, Military

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Manuals and ...

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Radio Wave Propagation in Antennas  
and Wave Propagation by

Engineering Funda ~~PROPAGATION OF  
ELECTROMAGNETIC WAVES \_ PART 02~~

~~Radio - HAM - Antenna: Part 3a -~~

~~Radio Wave Propagation and~~

~~Shortwave Listening Extra Class~~

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~~Lesson 9.1, Basics of Antennas~~

~~Antennas /u0026 Radio Wave~~

~~Propagation | Reflector Antennas -~~

~~Part 1 Antenna Radiation Pattern |~~

~~Antenna and Radiowave Propagation~~

~~(ARWP) lab 1 Antennas /u0026 Radio~~

~~Wave Propagation | Array Antenna~~

~~Part I How does your mobile phone~~

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work? | ICT #1 How Does An Antenna  
Work? | weBoost What is Antenna  
Gain? Antenna Radiating Patterns  
explained Omnidirectional vs  
directional antennas what's the  
difference? | weBoost

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Antenna Fundamentals 2 Directivity  
Why dipole antennas are a half wave

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~~VirHistory~~  
~~long Understanding Electromagnetic~~  
~~Radiation! | ICT #5 Electromagnetic~~  
Spectrum: Radio Waves Radio Wave  
Propagation Disease Antennas  
/u0026 Radio Wave Propagation |  
Radiation Pattern Using MS Excel  
Final Antennas and wave propagation  
Part-2-Marconi and Hertzian antenna

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~~Antennas and wave propagation~~

~~Part 1 Fundamentals of antenna~~

~~Ground Wave Propagation, Radio~~

~~Wave Propagation in Antenna by~~

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~~The Ionosphere, Shortwave Radio,~~

~~and Propagation Basic VHF and UHF~~

~~Fundamentals How Radio Waves Are~~

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Produced Antenna Fundamentals 1  
Propagation Antennas And Radio  
Wave Propagation  
Antenna Theory - Types of  
Propagation Radio Waves. Radio  
waves are easy to generate and are  
widely used for both indoor and  
outdoor communications because

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of... Radio Wave Propagation. In  
Radio communication systems, we  
use wireless electromagnetic waves  
as the channel. The... Line of Sight  
(LOS) ...

Antenna Theory - Types of  
Propagation - Tutorialspoint

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While discussing transmitter and receiver circuitry we did not have to know much about antennas or propagation. It sufficed to know only that a voltage applied to the terminals of a transmitting antenna causes a proportional voltage to appear very shortly thereafter at the

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terminals of a receiving antenna. To be more exact, it was sufficient to know that everything between the terminals of the two antennas is equivalent to a linear two-port network.

Antennas and radio wave

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propagation (Chapter 20) - Radio ...

One of the key areas of any radio system is that part where the signal is transferred from the transmitter to the receiver. This involves the use of antennas or aerials to radiate the signal as an electromagnetic wave, and then there is the way that the

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Victory  
electromagnetic wave travels or propagates between the transmitting antenna and the receiving one. Thus antennas and propagation are key areas for any radio system.

Antennas & Propagation - Aerials »  
Electronics Notes

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RADIO WAVE PROPAGATION AND  
ANTENNAS SUBCOURSE NO. IS1143-7  
(Developmental Date: 31 December  
1986) US Army Signal Center and Fort  
Gordon Fort Gordon, Georgia Nine  
Credit Hours GENERAL The Wave  
Propagation and Antennas Subcourse  
is designed to teach the knowledge

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**VirHistory** necessary to identify characteristics of wave propagation and calculating antenna lengths.

## RADIO WAVE PROPAGATION AND ANTENNAS

UNIT VIII Wave Propagation – II:  
Antenna and wave propagation pdf;

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Sky Wave Propagation —

Introduction. Structure of ionosphere,  
Refraction and Reflection of Sky  
Waves by ionosphere, Ray Path,  
Critical Frequency, MUF, LUF, OF,  
Virtual Height and Skip Distance.  
Relation between and Skip Distance,  
Multi-hop Propagation. Energy Loss

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Antenna and Wave Propagation  
(AWP) Notes Pdf - 2020 | SW  
Summary : Written for professional  
engineers and students who  
specialize in antenna, communication  
and radar systems, this authoritative

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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 ...

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Antennas & Radio Wave Propagation

*Page 22/87*

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Research Papers ...

Subj: ANTENNA CONSTRUCTION AND  
PROPAGATION OF RADIO WAVES (MCI  
2515H) 1. Purpose . The MCI 2515H,  
Antenna Construction and  
Propagation of Radio Waves ,  
provides communicators with  
instructions in selecting and/or

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constructing the appropriate antenna(s) for use within the current field. 2. Scope .

ANTENNA CONSTRUCTION AND  
PROPAGATION OF RADIO WAVES  
Ionospheric propagation: Here the  
radio signals are modified and

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influenced by a region high in the earth's atmosphere known as the ionosphere. This form of radio propagation is used by radio communications systems that transmit on the HF or short wave bands.

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What is Radio Propagation: RF  
Propagation » Electronics Notes  
Free space propagation. In free space,  
all electromagnetic waves (radio,  
light, X-rays, etc.) obey the inverse-  
square law which states that the  
power density of an electromagnetic  
wave is proportional to the inverse of

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the square of the distance from a point source or: . At typical communication distances from a transmitter, the transmitting antenna usually can be approximated by a point ...

Radio propagation - Wikipedia

*Page 27/87*

# Get Free Antennas And Radio Wave Propagation

Antenna and Wave Propagation  
textbook by Bakshi pdf free  
download. In wireless communication  
systems, signals are radiated in space  
as an electromagnetic wave by using  
a receiving transmitting antenna and  
a fraction of this radiated power is  
intercepted by using a receiving

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antenna. Thus, an antenna is a device used for radiating or receiver radio waves.

Antenna and Wave Propagation  
(AWP) TextBook by Bakshi ...

Line-of-sight is the direct propagation of radio waves between antennas

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that are visible to each other. This is probably the most common of the radio propagation modes at VHF and higher frequencies.

RADIO WAVES PROPAGATION - idc-  
online.com

normal radiation and propagation of

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radio waves. It does not have magnetic or gravitational ... quarter-wave antenna with a half-wave antenna mounted collinearly above it. CONCEPT OF AN ANTENNA •

Antenna is a electrical conductor used in transmission and reception of EM energy.

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## ANTENNA & WAVE PROPAGATION

Sky waves are reflections from the ionosphere also known as ionospheric propagation. Radio signals are affected in many ways through which they travel. Reflection, refraction and diffraction may occur.

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Sky wave signals are radiated by the antenna into the upper atmosphere, where they are reflected in the ionosphere and sent back to earth.

Radio Wave Propagation Radio Wave  
Propagation

GMT antenna and wave propagation

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Antenna and Wave propogation / By  
Roshni Y / Leave a Comment

Definition: A type of radio wave

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propagation that allows propagation of radio waves in the region between earth ' s surface and ionosphere is known as Ground Wave Propagation.

What is Ground Wave Propagation?  
Definition, Advantages ...

Fundamentals of Propagation When a

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History  
A suitable antenna is driven by a radio transmitter it radiates energy into free space in the form of Electromagnetic (EM) Waves. EM waves are produced by a complex mechanism. In close vicinity to the antenna (within  $1/2$  to  $1$  ), the energy field is called induction field.

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Radio Propagation | VU2NSB.com -  
Amazing Amateur Radio  
chapter 2 radio wave  
communicationselectronics  
fundamentals wave propagation  
transmission lines ... item  
communications electronics

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fundamentals transmission lines  
wave propagation and antennas  
represents a specific individual  
material embodiment of a distinct  
intellectual or artistic creation found

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Good, No Highlights, No Markup, all pages are intact, Slight Shelfwear, may have the corners slightly dented, may have slight color changes/slightly damaged spine.

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This completely updated second edition of an Artech House classic provides a thorough introduction to the basic principles of electromagnetic wave propagation of radio frequencies in real-world conditions, fully updated by including new achievements in theory and

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technology. It serves as an invaluable daily reference for practitioners in the field and 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

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antennas for RF radio links, to the impact of the earth surface on the propagation of ground waves, atmospheric effects in radio wave propagation, and radio wave reception. The book explores the propagation of the ground radio waves, namely the waves that

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propagate in vicinity of the earth's surface (e.g., guided by that interface), without involvement of any atmospheric effects. Specifics of the high-frequency (HF) radio propagation due to reflections from ionospheric layers is studied, based on commonly used models of the

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ionospheric vertical profiles.

Scattering of the radio waves of UHF and higher frequency bands from the random variations of the tropospheric refraction index (from tiny air turbulences) are also considered by using the principles of statistical radio-physics. Analysis of propagation

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**VinHistory** conditions on real propagation paths, including analysis of the power budget of the VHF/UHF link to assure its stability (percentage of availability within observation time frame), terrestrial, broadcast, mobile, and satellite RF links are presented. The engineering design of the cellular

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networks, including LTE 4G, 5G and  
upcoming higher generations is  
explored. HF propagation predictions  
for extremely long-range links design  
for commercial and military  
applications are explained. Packed  
with examples and problems, this  
book provides a theoretical

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background for astrophysical,  
aeronomy and geophysical  
instrumentation design.

Offers a comprehensive introduction  
to the practice and underpinnings of  
personal communications. This book  
contains chapters that explain how

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the ultra-wide band technology affects various aspects of personal communications. It covers important innovations such as wireless local networks, personal networks, and MIMO techniques.

In the offered book the fundamentals

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of electromagnetic fields and waves are discussed based on the great Maxwell equations. The book is conceived as a textbook for serious technical and classical universities in the considered themes. Nevertheless, it can be used, of course, as the reference book for wide group of

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VinHistory, engineers, researches and practical experts. Material of this book is divided into four main parts connected between them. The first part (Fundamental of Electrodynamics) is devoted to explanation of Maxwell equations and methods of its solutions. Besides

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classical interpretation the  
generalized equations are discussed,  
which take into consideration the  
scalar magnetic fields. New  
approaches allow description of so-  
called longitudinal electromagnetic  
waves, which have the absolutely non-  
standard propagation properties, and

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VirHistory  
permit to explain various  
electrodynamics paradoxes, which  
cannot be explained in another way.  
The main characteristics of wave  
processes in the free space and in  
transmission lines (feeders) are  
described. The second part (Radio  
Wave Propagation) investigates the

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obvious patterns of diffraction and interference phenomena at radio wave propagation for the obstacle presence in the propagation track, which is typical for all practical situations. Radio wave propagation of various frequency ranges is fulfilled separately taking into consideration

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the specific features of reflections from the atmosphere parts, attenuation in different media, types of propagating waves, multipath effects, diffraction and non-standard conditions of obstacle overcoming including non-usual ways of atmosphere ducts. The third part is

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devoted to description of various types and antennas, beginning from simplest (vibrators) and ending by complicate adaptive antenna arrays. Description is fulfilled on the reviewing level with many obvious figures, not to rely on strict mathematical methods, but rather on

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the concept level. Fourth part includes description of UHF devices, which are the elements ' base of UHF devices including surface and bulk integrated UHF circuits. These results have in many aspects the pioneer character and they are not widely known to experts. Distinctive feature

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of the offered book is sufficiently simplifies description of the very complicated electrodynamics problems available for the modern students and for young engineers. Of course, it is impossible to deal without mathematics in theses areas but required mathematics can be

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replaced by the many patterns, which give the chance to understand problems and to determine the complex questions. Sample Chapter(s) Chapter1: GENERAL DEFINITIONS AND RELATIONS OF ELECTRODYNAMICS (498 KB)Contents:FRONT MATTERCHAPTER

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1. GENERAL DEFINITIONS AND  
RELATIONS OF  
ELECTRODYNAMICS  
CHAPTER 2.  
ELECTROMAGNETIC FIELDS AND  
WAVES  
CHAPTER 3. MAIN PHYSICAL  
PHENOMENA AT RADIO WAVES  
PROPAGATION  
CHAPTER 4.  
PROPAGATION OF RADIO WAVES OF

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DIFFERENT RANGES AND ITS  
APPLICATION AREAS CHAPTER 5.  
PRINCIPAL CHARACTERISTICS OF  
ANTENNAS CHAPTER 6. ANTENNAS OF  
DECIMILLIMETER, MILLIMETER AND  
CENTIMETER WAVES CHAPTER 7.  
ANTENNAS OD DECIMETER, METER  
AND DECAMETER WAVES CHAPTER 8.

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ANTENNAS OF HECTOMETER,  
KILOMETER MYRIAMETER  
WAVESCHAPTER 9. ANTENNAS FOR  
TV, RADIO RELAY AND SPACE  
COMMUNICATION LINESCHAPTER 10.  
ELECTROMAGNETIC COMPATIBILITY  
OF RADIO ENGINEERING SYSTEMS.  
ANTENNAS AND THE PROBLEM OF ITS

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MINIATURIZATION CHAPTER 11. MAIN  
COMPONENTS OF THE ELEMENT BASE  
OF ANTENNA-FEEDER

ENGINEERING CHAPTER 12. BASE  
ELEMENTS AND FUNCTIONAL UNITS  
OF ANTENNA- FEEDER  
ENGINEERING BACK

MATTER Readership: The book is

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conceived as a textbook for serious technical and classical universities in the considered themes. Nevertheless, it can be used, of course, as the reference book for wide group of engineers, researches and practical experts.

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This book emerged from teaching a graduate level course in propagation and smart antennas at the Naval Postgraduate School. In its present form, it is suitable not only as a graduate level text, but also as a reference book for industry and research use. The area of radiowave

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propagation and smart antennas is highly interdisciplinary, extracting material from electromagnetics, communications, and signal processing. This book is useful to workers in electromagnetics who would like to supplement their background with relevant

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Historical aspects and to workers in communications who would like to supplement their background with relevant electromagnetic aspects. Anyone with a basic understanding of probability, wave propagation, digital communications, and elementary signal

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processing should be able to appreciate the contents of the book. The book consists of nine chapters with several worked out examples dispersed throughout. Chapter 1 covers the basics of cellular communications. Chapter 2 covers the basic principles of electromagnetic wave propagation

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relevant to path loss predictions in wireless communications. Students with little prior background in electromagnetics should find the first few sections of Chapter 2 self-sufficient. Empirical path loss models that are used in system design are treated in Chapter 3. The chapter

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includes the traditional models as well as some of the newer models. Chapter 4 has a thorough discussion on the causes and characterization of small scale fading. The topic of spatial c- relation that is very important for antenna arrays is discussed there in detail.

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This text book on "Antennas and Radio-wave Propagation" describes the theory of various types of antennas that are in current use and the way in which the radiated waves get propagated through space. The theory has been written in a simple

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and easy-to-understand language. Lots of worked-out examples as well as diagrams in 2-D and 3-D have been included to illustrate the principles clearly. It is hoped that these features help the students to grasp the theories involved easily. Features Provided solid grasp of the

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subject. Every concept is explained in detail with 2 dimension or 3 dimension figures wherever necessary. Every chapter is fortified with lots of worked examples. Each chapter ends with review questions and exercise problems to allow the student to test their understanding of

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the material covered. Basic principles  
on antenna and special antennas are  
discussed in appendices Contents  
Antenna Basics Point Sources  
Antenna Arrays Electric Dipole and  
Thin Linear Antennas The Loop  
Antenna The Helical Antenna and the  
Yagi-Ud array Antenna Types

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Propagation of Ground and Space  
Waves Sky-Wave Propagation  
Appendices.

Antennas and radio propagation are continuously and rapidly evolving and new challenges arise every day. As a result of these rapid changes the

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need for up-to-date texts that address this growing field from an interdisciplinary perspective persists. This book, organized into nine chapters, presents new antenna designs and materials that will be used in the future, due to the trend for higher frequencies, as well as a

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**Vin History** bird's eye view of some aspects related to radio propagation channel modeling. The book covers the theory but also the practical aspects of technology implementation in a way that is suitable for undergraduate and graduate-level students, as well as researchers and professional

# Get Free Antennas And Radio Wave Propagation History. engineers.

Contents: Basic properties of antennas and radio waves; Antenna-feeder arrangements; Propagation of radio waves and application of them for radio communications; General form and basic data of certain

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antennas; Intensity of field of surface  
radio waves depending on distance  
and working frequency for calculated  
antenna; Radio weather forecast.

An accessible student-oriented  
approach to radiowave propagation  
Propagation-the process whereby a

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signal is conveyed between transmitter and receiver-has a profound influence on communication systems design. Radiowave Propagation provides an overview of the physical mechanisms that govern electromagnetic wave propagation in the Earth's

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in the troposphere and ionosphere.

Developed in conjunction with a graduate-level wave propagation course at The Ohio State University, this text offers a balance of physical and empirical models to provide basic physical insight as well as practical methods for system design.

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Beginning with discussions of propagation media properties, plane waves, and antenna and system concepts, successive chapters consider the most important wave propagation mechanisms for frequencies ranging from LF up to the millimeter wave range, including:

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Direct line-of-sight propagation  
through the atmosphere Rain  
attenuation The basic theory of  
reflection and refraction at material  
interfaces and in the Earth's  
atmosphere Reflection, refraction,  
and diffraction analysis in microwave  
link design for a specified terrain

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Virtual History  
profile Empirical path loss models for  
point-to-point ground links Statistical  
fading models Standard techniques  
for prediction of ground wave  
propagation Ionospheric  
propagation, with emphasis on the  
skywave mechanism at MF and HF  
and on ionospheric perturbations for

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Earth-space links at VHF and higher frequencies A survey of other propagation mechanisms, including tropospheric scatter, meteor scatter, and propagation effects on GPS systems Radiowave Propagation incorporates fundamental materials to help senior undergraduate and

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graduate engineering students  
review and strengthen  
electromagnetic physics skills as well  
as the most current empirical  
methods recommended by the  
International Telecommunication  
Union. This book can also serve as a  
valuable teaching and reference text

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for engineers working with wireless communication, radar, or remote sensing systems.

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