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Handbook of Fiber Optic Data Communication -
Casimer DeCusatis 2002-04-13

The Handbook includes chapters on all the major industry standards, quick reference tables,

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helpful appendices, plus a new glossary and list of acronyms. This practical handbook can stand alone or as a companion volume to DeCusatis: Fiber Optic Data Communication: Technological Advances and Trends (February 2002, ISBN: 0-12-207892-6), which was developed in tandem with this book. * Includes emerging technologies such as Infiniband, 10 Gigabit Ethernet, and MPLS Optical Switching * Describes leading edge commercial products, including LEAF and MetroCore fibers, dense wavelength multiplexing, and Small Form Factor transceiver packages * Covers all major industry standards, often written by the same people who designed the standards themselves * Includes an expanded listing of references on the World Wide Web, plus hard-to-find references for international, homologation, and type approval requirements * Convenient tables of key optical datacom parameters and glossary with hundreds of definitions and acronyms * Industry buzzwords explained, including SAN, NAS, and

MAN networking * Datacom market analysis and future projections from industry leading forecasters

Fiber Optics - Fedor Mitschke 2016-08-16

This book tells you all you want to know about optical fibers: Their structure, their light-guiding mechanism, their material and manufacture, their use. It began with telephone, then came telefax and email. Today we use search engines, music downloads and internet videos, all of which require shuffling of bits and bytes by the zillions. The key to all this is the conduit: the line which is designed to carry massive amounts of data at breakneck speed. In their data carrying capacity optical fiber lines beat all other technologies (copper cable, microwave beacons, satellite links) hands down, at least in the long haul; wireless devices rely on fibers, too. Several effects tend to degrade the signal as it travels down the fiber: they are spelled out in detail. Nonlinear processes are given due consideration for a twofold reason: On the one hand they are

fundamentally different from the more familiar processes in electrical cable. On the other hand, they form the basis of particularly interesting and innovative applications, provided they are understood well enough. A case in point is the use of so-called solitons, i.e. special pulses of light which have the wonderful property of being able to heal after perturbation. The book will take you from the physical basics of ray and beam optics, explain fiber structure and the functions of optical elements, and bring you to the forefront of both applications and research. The state of the art of high speed data transmission is described, and the use of fiber optic sensors in metrology is treated. The book is written in a pedagogical style so that students of both physics and electrical engineering, as well as technicians and engineers involved in optical technologies, will benefit. The new edition is largely updated and has new sections on nonlinear phenomena in fibers as well as on the latest trends in applications.

Engineering Education - 1982

Principles of Modern Communication Systems - Samuel O. Agbo 2017-02-06

An accessible, yet mathematically rigorous, one-semester textbook, engaging students through use of problems, examples, and applications.

FTTX Concepts and Applications - Gerd Keiser 2006-02-06

This book presents fundamental passive optical network (PON) concepts, providing you with the tools needed to understand, design, and build these new access networks. The logical sequence of topics begins with the underlying principles and components of optical fiber communication technologies used in access networks. Next, the book progresses from descriptions of PON and fiber-to-the-X (FTTX) alternatives to their application to fiber-to-the-premises (FTTP) networks and, lastly, to essential measurement and testing procedures for network installation and maintenance. An

Instructor's Manual presenting detailed solutions to all the problems in the book is available from the Wiley editorial department.

Microwave Devices and Circuits - Samuel Y. Liao 1990-09

Optical Fiber Communications - John M. Senior 2009

This text succeeds in giving a practical introduction to the fundamentals, problems and techniques of the design and utilisation of optical fiber systems. This edition retains all core features, while incorporating recent improvements and developments in the field.

Fiber Optics - Guillermo Huerta-Cuellar 2021-11-24

The importance and necessity of communications systems have become evident during the COVID-19 pandemic. The development of new technologies that permit the best performance of these systems is paramount, and optical fibers play an important role in this

area. This book examines new technological developments to improve optical fiber technology, with applications in communications systems, optoelectronics integration, and the scientific study of live microorganisms such as bacteria, viruses, fungi, and protozoa.

First International Conference on Optical Communications and Networks (ICOON 2002) - Cambyse Guy Omidyar 2002

Optical communications networks are becoming increasingly important as there is demand for high capacity links. Dense wavelength division multiplexing (DWDM) is widely deployed at the core networks to accommodate high capacity transport systems. Optical components such as optical amplifiers, tunable filters, transceivers, termination devices and add-drop multiplexers are becoming more reliable and affordable. Access and metropolitan area networks are increasingly built with optical technologies to overcome the electronic bottleneck at network edges. New components and subsystems for very

high speed optical networks offer new design options. The proceedings of the First International Conference on Optical Communications and Networks present high quality recent research results in the areas of optical communications, network components, architectures, protocols, planning, design, management and operation.

Optical Fiber Communications: Principles and Practice - Senior John M. 2009-09

Noise and Signal Interference in Optical Fiber Transmission Systems - Stefano

Bottacchi 2008-11-20

A comprehensive reference to noise and signal interference in optical fiber communications. *Noise and Signal Interference in Optical Fiber Transmission Systems* is a compendium on specific topics within optical fiber transmission and the optimization process of the system design. It offers comprehensive treatment of noise and intersymbol interference (ISI)

components affecting optical fiber communications systems, containing coverage on noise from the light source, the fiber and the receiver. The ISI is modeled with a statistical approach, leading to new useful computational methods. The author discusses the subject with the help of numerous applications and simulations of noise and signal interference theory. Key features: Complete all-in-one reference on the subject for engineers and designers of optical fiber transmission systems. Discusses the physical principles behind several noise contributions encountered in the optical communications systems design, including contributions from the light source, the fiber and the receiver. Covers the theory of the ISI for the binary signal, as well as noise statistics. Discusses the theory and the mathematical models of the numerous noise components (such as optical noise, photodetection noise and reflection noise). Introduces the frequency description of the ISI and provides new

calculation methods based on the characteristic functions Provides useful tools and examples for optimum design of optical fiber transmission networks and systems This book will serve as a comprehensive reference for researchers, R & D engineers, developers and designers working on optical transmission systems and optical communications. Advanced students in optical communications and related fields will also find this book useful.

Fiber-optic Communication Systems - Govind P. Agrawal 2004

The Institute of Optics, University of Rochester * ".readers searching for a wide ranging and up-date view of fibre optic communication systems would do well to purchase this book."--

International Journal of Electrical Engineering Education (on the Second Edition) * This comprehensive, up-to-date account of fiber-optic communication focuses on the physics and technology behind fiber-optic communication systems while covering both the systems and

components aspects * Provides extensive details on the WDM technology and system design issues that have developed since the last edition. Optical Fiber Communications - Gerd Keiser 2000

The third edition of this popular text and reference book presents the fundamental principles for understanding and applying optical fiber technology to sophisticated modern telecommunication systems. Optical-fiber-based telecommunication networks have become a major information-transmission-system, with high capacity links encircling the globe in both terrestrial and undersea installations. Numerous passive and active optical devices within these links perform complex transmission and networking functions in the optical domain, such as signal amplification, restoration, routing, and switching. Along with the need to understand the functions of these devices comes the necessity to measure both component and network performance, and to model and

stimulate the complex behavior of reliable high-capacity networks.

Fiber Optic Communications - Palais 2005

Optical Fiber Communications Systems - Le Nguyen Binh 2010-04-19

Carefully structured to provide practical knowledge on fundamental issues, *Optical Fiber Communications Systems: Theory and Practice with MATLAB® and Simulink® Models* explores advanced modulation and transmission techniques of lightwave communication systems. With coverage ranging from fundamental to modern aspects, the text presents optical communication techniques and applications, employing single mode optical fibers as the transmission medium. With MATLAB and Simulink models that illustrate methods, it supplies a deeper understanding of future development of optical systems and networks. The book begins with an overview of the development of optical fiber communications

technology over the last three decades of the 20th century. It describes the optical transmitters for direct and external modulation technique and discusses the detection of optical signals under direct coherent and incoherent reception. The author also covers lumped Er-doped and distributed Raman optical amplifiers with extensive models for the amplification of signals and structuring the amplifiers on the Simulink platform. He outlines a design strategy for optically amplified transmission systems coupled with MATLAB Simulink models, including dispersion and attenuation budget methodology and simulation techniques. The book concludes with coverage of advanced modulation formats for long haul optical fiber transmission systems with accompanied Simulink models. Although many books have been written on this topic over the last two decades, most of them present only the theory and practice of devices and subsystems of the optical fiber communications systems in the

fields, but do not illustrate any computer models to represent the true practical aspects of engineering practice. This book fills the need for a text that emphasizes practical computing models that shed light on the behavior and dynamics of the devices.

Understanding Optical Communications - Harry J. R. Dutton 1998

2014A-8 The complete, up-to-date technical overview of optical communications. Fibre in the WAN, MAN, local loop, campus and LAN. Up-to-the-minute coverage of Wavelength Division Multiplexing. Previews today's advanced research--tomorrow's practical applications. Over the past 15 years, optical fibre's low cost, accuracy and enormous capacity has revolutionized wide area communications--making possible the Internet as we know it. Now a second fibre revolution is underway. Advanced technologies such as Wavelength Division Multiplexing (WDM) are adding even more capacity, and fibre is increasingly the media of

choice in MANs, campuses, buildings, LANs--soon, even homes. If you need to understand the state-of-the-art in optical communications, Understanding Optical Communications is the most complete, up-to-date technical overview available. Fundamental principles and components of optical communications. Optical communications systems, interfaces and engineering challenges. FDDI, Ethernet on Fibre, ESCON, Fibre Channel, SONET/SDH and ATM. WDM: sparse and dense approaches, photonic networking, WDM for LANs and WDM standards. Fibre in the local loop, integration with HFC networks and passive optical networks. Understanding Optical Communications reviews key technical issues facing engineers as they extend fibre into new applications and markets. It presents an up-to-the-minute status report on WDM for LANs and MANs, including a rare glimpse at IBM's latest experimental systems. It points to the advanced research most likely to bear fruit: dark and

spatial solitons, advanced fibres, plastic technologies, optical CDMA, TDM and packet-networks and more. Whether you're building optical systems or planning for them, this is the briefing you've been looking for.

Optical Fiber Communications - Gerd Keiser
2010-09-10

The fourth edition of this popular text and reference book presents the fundamental principles for understanding and applying optical fiber technology to sophisticated modern telecommunication systems. Optical-fiber-based telecommunication networks have become a major information-transmission-system, with high capacity links encircling the globe in both terrestrial and undersea installations. Numerous passive and active optical devices within these links perform complex transmission and networking functions in the optical domain, such as signal amplification, restoration, routing, and switching. Along with the need to understand the functions of these devices comes the

necessity to measure both component and network performance, and to model and stimulate the complex behavior of reliable high-capacity networks.

WDM Technologies: Passive Optical Components - Achyut K. Dutta 2003-06-04

The communications industry is at the onset of new expansion of WDM technology necessary to meet the new demand for bandwidth. This is the second of a four reference books that will cover this technology comprehensively with all of the major topics covered by a separate volumes - i.e. active components, passive components, systems and networks. This book is the first which covers all key passive optical components required for current and next generation optical communication systems. World-renowned authors, who are pioneers in their research area, have written the chapters in their area of expertise. The book highlights not only the principle of operation and characteristics of the passive optical components, but also provides an

in-depth account of the state-of-the-art system applications. - Helps the reader to choose the right device for a given system application. - Provides the reader with insight and understanding for key passive optical components frequently being / to be used in the optical communication systems, essential building blocks of today's/next generation fiber optic networks. - Allows engineers working in different optical communication areas(i.e. from system to component), to understand the principle and mechanics of each key component they deal with for optical system design. - Covers Planar lightwave circuit (PLC) based router, different optical switches technologies (based on MEMS, thermo-optic, and electro-optic) and different optical amplifier technologies (based on semiconductor optical amplifier, EDFA ,and raman amplifier). - Highlights the operating principle of each component, system applications, and also future opportunities.

Understanding Fiber Optics - Jeff Hecht 2002

For courses in Introduction to Fiber Optics and Introduction to Optical Networking in departments of Electronics Technology and Electronics Engineering Technology. Also suitable for corporate training programs. Ideal for technicians, entry-level engineers, and other nonspecialists, this best-selling practical, thorough, and accessible introduction to fiber optics reflects the expertise of an author who has followed the field for over 25 years. Using a non-theoretical/non-mathematical approach, it explains the principles of optical fibers, describes components and how they work, explores the tools and techniques used to work with them and the devices used to connect fiber network, and concludes with applications showing how fibers are used in modern communication systems. It covers both existing systems and developing technology, so students can understand present systems and new developments.

Optical Communications and Networks - C G

Omidyar 2002-10-23

Optical communications networks are becoming increasingly important as there is demand for high capacity links. Dense wavelength division multiplexing (DWDM) is widely deployed at the core networks to accommodate high capacity transport systems. Optical components such as optical amplifiers, tunable filters, transceivers, termination devices and add-drop multiplexers are becoming more reliable and affordable. Access and metropolitan area networks are increasingly built with optical technologies to overcome the electronic bottleneck at network edges. New components and subsystems for very high speed optical networks offer new design options. The proceedings of the First International Conference on Optical Communications and Networks present high quality recent research results in the areas of optical communications, network components, architectures, protocols, planning, design, management and operation. Contents:Optical

Networking IChromatic DispersionOptical
Networking IIWDM Devices INetwork
ArchitectureFibers and Fiber-Based
DevicesOptical SwitchingWDM Devices
IINetwork Management and OptimizationFiber
GratingsOptical Transmission ILasers and
Amplifiers IOptical Networking IIIOptical Signal
ProcessingNetwork Protection and
RestorationWDM Devices IIIOptical Networking
IVMEMS ApplicationsOptical Transmission
IILasers and Amplifiers II Readership: Graduate
students, academics and researchers in
networking, computer engineering, electrical &
electronic engineering and
innovation/technology/knowledge/information
management. Keywords:Optical Switching and
Networking;Optical Transmission
Technology;Optical Passive Components;Optical
Active Components
Wireless Communications - Theodore S.
Rappaport 1996
Building on his classic edition, Rappaport covers

the fundamental issues impacting all wireless networks and reviews virtually every important new wireless standard and technological development. He illustrates each key concept with practical examples, thoroughly explained and solved step by step.

OPTICAL FIBER COMMUNICATION - Dr. M.Satyanarayana 2022-03-15

OPTICAL FIBER COMMUNICATION book was written by Dr. M.Satyanarayana, Dr. V.N.Lakshmana Kumar, Dr. P. Ujjvala Kanthi Prabha

Advanced Manufacturing for Optical Fibers and Integrated Photonic Devices - Abdul Azzawi 2017-12-19

Advanced Manufacturing for Optical Fibers and Integrated Photonic Devices explores the theoretical principles and industrial practices of high-technology manufacturing. Focusing on fiber optic, semiconductor, and laser products, this book: Explains the fundamentals of standard, high-tech, rapid, and additive

manufacturing workshops Examines the production lines, processes, and clean rooms needed for the manufacturing of products Discusses the high-technology manufacturing and installation of fiber optic cables, connectors, and active/passive devices Describes continuous improvement, waste reduction through 5S application, and management's responsibilities in supporting production Covers Lean Manufacturing processes, product improvement, and workplace safety, as well as internal/external and ISO auditing Offers a step-by-step approach complete with numerous figures and tables, detailed references, and a glossary of terms Employs the international system of units (SI) throughout the text Advanced Manufacturing for Optical Fibers and Integrated Photonic Devices presents the latest manufacturing achievements and their applications in the high-tech sector. Inspired by the author's extensive industrial experience, the book provides a comprehensive overview of

contemporary manufacturing technologies.

Fiber Optic Communications - Gerd Keiser

2021-03-01

This book highlights the fundamental principles of optical fiber technology required for understanding modern high-capacity lightwave telecom networks. Such networks have become an indispensable part of society with applications ranging from simple web browsing to critical healthcare diagnosis and cloud computing. Since users expect these services to always be available, careful engineering is required in all technologies ranging from component development to network operations. To achieve this understanding, this book first presents a comprehensive treatment of various optical fiber structures and diverse photonic components used in optical fiber networks. Following this discussion are the fundamental design principles of digital and analog optical fiber transmission links. The concluding chapters present the architectures and

performance characteristics of optical networks.

Information Theory, Coding and Cryptography -

Bose Ranjan 2008

The fields of Information Theory, Coding and Cryptography are ever expanding, and the last six years have seen a spurt of new ideas germinate, mature and get absorbed in industrial standards and applications. Many of these new concepts* have been included.

Biophotonics - Gerd Keiser 2016-07-20

This book introduces senior-level and postgraduate students to the principles and applications of biophotonics. It also serves as a valuable reference resource or as a short-course textbook for practicing physicians, clinicians, biomedical researchers, healthcare professionals, and biomedical engineers and technicians dealing with the design, development, and application of photonics components and instrumentation to biophotonics issues. The topics include the fundamentals of optics and photonics, the optical properties of

biological tissues, light-tissue interactions, microscopy for visualizing tissue components, spectroscopy for optically analyzing the properties of tissue, and optical biomedical imaging. It also describes tools and techniques such as laser and LED optical sources, photodetectors, optical fibers, bioluminescent probes for labeling cells, optical-based biosensors, surface plasmon resonance, and lab-on-a-chip technologies. Among the applications are optical coherence tomography (OCT), optical imaging modalities, photodynamic therapy (PDT), photobiostimulation or low-level light therapy (LLLT), diverse microscopic and spectroscopic techniques, tissue characterization, laser tissue ablation, optical trapping, and optogenetics. Worked examples further explain the material and how it can be applied to practical designs, and the homework problems help test readers' understanding of the text.

Optical Networks - Rajiv Ramaswami 2009-11-27

The third edition of *Optical Networks* continues to be the authoritative source for information on optical networking technologies and techniques. Componentry and transmission are discussed in detail with emphasis on practical networking issues that affect organizations as they evaluate, deploy, or develop optical networks. New updates in this rapidly changing technology are introduced. These updates include sections on pluggable optical transceivers, ROADM (reconfigurable optical add/drop multiplexer), and electronic dispersion compensation. Current standards updates such as G.709 OTN, as well as, those for GPON, EPON, and BPON are featured. Expanded discussions on multimode fiber with additional sections on photonic crystal and plastic fibers, as well as expanded coverage of Ethernet and Multiprotocol Label Switching (MPLS). This book clearly explains all the hard-to-find information on architecture, control and management. It serves as your guide at every step of optical networking-- from planning to

implementation through ongoing maintenance. This book is your key to thoroughly understanding practical optical networks. In-depth coverage of optimization, design, and management of the components and transmission of optical networks. Filled with examples, figures, and problem sets to aid in development of dependable, speedy networks. Focuses on practical, networking-specific issues: everything you need to know to implement currently available optical solutions.

Optical Fiber Communications - Tingye Li
2012-12-02

Optical Fiber Communications, Volume 1: Fiber Fabrication focuses on the science, engineering, and application of information transmission through optical fibers. This book discusses the materials and processes for fiber fabrication, fiber theory, design, and measurement, as well as passive components, cabling, active devices, systems, and applications. Organized into five chapters, this volume starts with an overview of

the modified chemical vapor deposition (MCVD), the outside vapor deposition (OVD), and the vapor-phase axial deposition (VAD) processes. This text then explores the important development with respect to the drawing of glass fibers, particularly those that serve as optical waveguides in telecommunications applications. Other chapters discuss the progress in fiber strength from short-length research fibers to large quantities that give confidence in the manufacturability of high-strength, long-length fibers. The final chapter discusses the advances in the technologies of optical-fiber manufacture. This book is a valuable resource for process engineers, technicians, scientists, and optical fiber manufacturers.

Field and Wave Electromagnetics - Cheng
1989-09

Fiber Optic Communications - Shiva Kumar
2014-05-12

Fiber-optic communication systems have advanced dramatically over the last four decades, since the era of copper cables, resulting in low-cost and high-bandwidth transmission. Fiber optics is now the backbone of the internet and long-distance telecommunication. Without it we would not enjoy the benefits of high-speed internet, or low-rate international telephone calls. This book introduces the basic concepts of fiber-optic communication in a pedagogical way. The important mathematical results are derived by first principles rather than citing research articles. In addition, physical interpretations and real-world analogies are provided to help students grasp the fundamental concepts. Key Features: Lucid explanation of key topics such as fibers, lasers, and photodetectors. Includes recent developments such as coherent communication and digital signal processing. Comprehensive treatment of fiber nonlinear transmission. Worked examples, exercises, and

answers. Accompanying website with PowerPoint slides and numerical experiments in MATLAB. Intended primarily for senior undergraduates and graduates studying fiber-optic communications, the book is also suitable as a professional resource for researchers working in the field of fiber-optic communications.

Optical Communication Systems - John Gowar
1993

City of Light - Jeff Hecht 2004

This book is likely to become the definitive history of the development of fiber optics. It covers the scientific challenges that needed to be overcome and describes both current and future applications.

Optical Fibre Communications - M. J. Howes
1980

Coherent Optical Fiber Communications - T. Okoshi
1988-07-31

DIGITAL TELEPHONY, 3RD ED - Bellamy 2006
Market_Desc: · Hardware and Software Engineers in telecommunications· Senior or Graduate Students in Electrical Engineering, Computer Engineering, and Computer Science
Special Features: · An up-to-date revision of a best-selling title, with an emphasis on system-level design considerations and the reasons digital technology has supplanted analog technology in telephone networks worldwide· From the reviews of the Second Edition: The book stresses how systems operate and the rationale behind their design, rather than presenting rigorous analytical formulations& (Readers) will find...the practicality and breadth essential to mastering the concepts of modern communications systems. ---Telecommunication Journal· Written by a well-known expert in the field· Correlates classical communications theory and the implementation of communications equipment and systems About The Book: This is an up-to-date revision of a best-selling title, with

an emphasis on system-level design considerations and the reasons digital technology has supplanted analog technology in telephone networks worldwide. The book correlates classical communications theory and the implementation of communications equipment and systems.

Optical Communications Systems - Narottam Das 2012-03-07

Optical communications systems are very important for all types of telecommunications and networks. They consist of a transmitter that encodes a message into an optical signal, a channel that carries the signal to its destination, and a receiver that reproduces the message from the received optical signal. This book presents up to date results on communication systems, along with the explanations of their relevance, from leading researchers in this field. Its chapters cover general concepts of optical and wireless optical communication systems, optical amplifiers and networks, optical

multiplexing and demultiplexing for optical communication systems, and network traffic engineering. Recently, wavelength conversion and other enhanced signal processing functions are also considered in depth for optical communications systems. The researcher has also concentrated on wavelength conversion, switching, demultiplexing in the time domain and other enhanced functions for optical communications systems. This book is targeted at research, development and design engineers from the teams in manufacturing industry; academia and telecommunications service operators/ providers.

Nonlinear Fiber Optics - Govind P. Agrawal
2007

Since the 3rd edition appeared, a fast evolution of the field has occurred. The fourth edition of this classic work provides an up-to-date account of the nonlinear phenomena occurring inside optical fibers. The contents include such important topics as self- and cross-phase

modulation, stimulated Raman and Brillouin scattering, four-wave mixing, modulation instability, and optical solitons. Many new figures have been added to help illustrate the concepts discussed in the book. New to this edition are chapters on highly nonlinear fibers and the novel nonlinear effects that have been observed in these fibers since 2000. Such a chapter should be of interest to people in the field of new wavelengths generation, which has potential application in medical diagnosis and treatments, spectroscopy, new wavelength lasers and light sources, etc. Continues to be industry bestseller providing unique source of comprehensive coverage on the subject of nonlinear fiber optics Fourth Edition is a completely up-to-date treatment of the nonlinear phenomena occurring inside optical fibers Includes 2 NEW CHAPTERS on the properties of highly nonlinear fibers and their novel nonlinear effects

Optical Communications Essentials - Gerd

Keiser 2003-10-21

* The most comprehensive introduction to optical communications available anywhere-- from the author of *Optical Fiber Communications*, the field's leading text * Concise, illustrated module-style chapters quickly bring non-specialists up-to-speed * Extensive DWDM (Dense Wavelength Division Multiplexing) coverage * Advanced topics and limited math covered in side-bars' * Free space optical (wireless fiber optics) *Fiber Optics Handbook: Fiber, Devices, and Systems for Optical Communications* - Optical Society of America 2001-10-09 Fiber optics is the hottest topic in communications and this book from the world's

leading experts clearly lays out all the details of optical communications engineering * Essential technical guide and solutions kit for the super-fast, super-broad fiber systems and devices powering the fastest-growing communications infrastructure * Methods for generating above peak performance * Clear explanations and answers to tough challenges for WDM, DWDM, amplifiers, solitons, and other key technologies **Antennas and Radiowave Propagation** - Robert E. Collin 1985 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.