

Applications of Communications Theory
Series Editor: R. W. Lucky

OPTICAL CHANNELS

**Fibers, Clouds, Water,
and the Atmosphere**



Sherman Karp
Robert M. Gagliardi
Steven E. Moran
Larry B. Stotts

Optical Channels Fibers Clouds Water And The Atmosphere

Umberto Mengali



Optical Channels Fibers Clouds Water And The Atmosphere:

Optical Channels Sherman Karp, Robert M. Gagliardi, Steven E. Moran, Lawrence B. Stotts, 2013-11-11 When we were first approached by Dr Lucky to write this book we were very enthusiastic about the prospect since we had contemplated a similar project for quite some time The difficulty lay in how best to digest the vast amount of data on optical propagation reduce it to a book of manageable size and simultaneously form the transition from the physics of propagation to the engineering of optical channels This is the intent of Optical Channels In accomplishing our goal it was necessary to condense the material on optical propagation and in so doing we have left a large amount to be handled via references We have tried to make these decisions in a consistent manner so that the book will be uniform in its treatment of this topic We identify four channels for consideration the free space channel which is characteristic of a tranquil atmosphere or a space to space link the turbulent channel which is characteristic of the atmospheric channel the scatter channel in two forms clouds and water and the fiber optic channel For each of these channels we have tried to reduce the applicable propagation theory to a level that can be used for engineering design This has been done by example but here again decisions had to be made on which examples to present We have not tried to present any material on optical components and consequently other references on engineering would be necessary to supplement this book

Optical Channels Sherman Karp, Robert M. Gagliardi, Steven E. Moran, 2014-01-15

Applied Aspects of Optical Communication and LIDAR Nathan Blaunstein, Shlomi Arnon, Natan Kopeika, Arkadi Zilberman, 2009-12-28 Exploring the practical aspects of atmospheric optical communication and light detection and ranging LIDAR

Applied Aspects of Optical Communication and LIDAR details the role of atmospheric structures in propagation phenomena that influence the transmission of optical signals through perturbed atmospheric communication channels It examines nume

Simulation of Communication Systems Philip Balaban, Michel C. Jeruchim, K. Sam Shanmugan, 2012-12-06 Simulation may be defined as the discipline whose objective is to imitate one or more aspects of reality in a way that is as close to that reality as possible indeed an apt synonym that is gaining some currency is artificial reality Under this definition simulation is a very old discipline Probably the first applications of simulation were to scale models of various types of dynamical structures or mechanical devices Man has always looked for ways to try things out before building the real thing this is the motivation behind any form of simulation Thus simulation of communication systems is concerned with imitating some aspects of the behavior of communication systems It is implicit in our use of simulation that the medium so to speak for carrying it out is the digital computer Computer based modeling and simulation of communication systems has only developed in the last 20 years or so since the advent of modern digital computers A variety of modeling and simulation techniques have been developed and described in widely scattered journals but until now there has not been a single volume devoted to the subject We have tried to provide a unified framework that describes both the disciplines involved and the methods of modeling and simulating communication systems and subsystems In the electronic

era the first type of computer simulation in today's use of the term took shape in the form of analog computers

Synchronization Techniques for Digital Receivers Umberto Mengali, 2013-11-11 Synchronization is a critical function in digital communications its failures may have catastrophic effects on the transmission system performance Furthermore synchronization circuits comprehend such a large part of the receiver hardware that their implementation has a substantial impact on the overall costs For these reasons design engineers are particularly concerned with the development of new and more efficient synchronization structures Unfortunately the advent of digital VLSI technology has radically affected modem design rules to a point that most analog techniques employed so far have become totally obsolete Although digital synchronization methods are well established by now in the literature they only appear in the form of technical papers often concentrating on specific performance or implementation issues As a consequence they are hardly useful to give a unified view of an otherwise seemingly heterogeneous field It is widely recognized that a fundamental understanding of digital synchronization can only be reached by providing the designer with a solid theoretical framework or else he will not know where to adjust his methods when he attempts to apply them to new situations The task of the present book is just to develop such a framework

Digital Pictures Arun N. Netravali, 2013-12-19 *Simulation of Communication Systems* Michel C. Jeruchim, Philip Balaban, K. Sam Shanmugan, 2006-04-11 Since the first edition of this book was published seven years ago the field of modeling and simulation of communication systems has grown and matured in many ways and the use of simulation as a day to day tool is now even more common practice With the current interest in digital mobile communications a primary area of application of modeling and simulation is now in wireless systems of a different flavor from the traditional ones This second edition represents a substantial revision of the first partly to accommodate the new applications that have arisen New chapters include material on modeling and simulation of nonlinear systems with a complementary section on related measurement techniques channel modeling and three new case studies a consolidated set of problems is provided at the end of the book

Fundamentals of Electro-Optic Systems Design Sherman Karp, Larry B. Stotts, 2013 Presents practical electro optical applications in the context of the fundamental principles of communication theory thermodynamics information theory and propagation theory Combining systems issues with fundamentals of communications this is an essential reference for all practising engineers and academic researchers in optical engineering

Journal of Current Laser Abstracts, 1989

Principles and Applications of Optical Wireless Orthogonal Frequency-Division Multiplexing Xizheng Ke, 2025-02-17 This book explains the principles and various applications of Optical Wireless Communication Orthogonal Frequency Division Multiplexing OWC OFDM and validates the relevant theories through numerical analysis and communication experiments The book consists of 10 chapters first providing a systematic and in depth analysis of the research progress of optical wireless communication and clarifying the importance and advantages of optical wireless OFDM transmission Then the source coding is discussed the optical OFDM system is clarified and the characteristics of optical

wireless OFDM are explained by numerical simulation Theoretical analysis and numerical simulation of peak ratio time synchronization channel estimation and channel allocation of wireless OFDM are carried out Numerical simulation and communication experiments in the book verify the performance of optical wireless OFDM systems and the feasibility of related algorithms

Free Space Optical Communication Hemani Kaushal,V.K. Jain,Subrat Kar,2017-01-06 This book provides an in depth understanding of free space optical FSO communication with a particular emphasis on optical beam propagation through atmospheric turbulence The book is structured in such a way that it provides a basic framework for the beginners and also gives a concise description from a designer s perspective The book provides an exposure to FSO technology fundamental limitations design methodologies system trade offs acquisition tracking and pointing ATP techniques and link feasibility analysis The contents of this book will be of interest to professionals and researchers alike The book may also be used as a textbook for engineering coursework and professional training

Advanced Optical Wireless Communication Systems Shlomi Arnon,John Barry,George Karagiannidis,2012-05-24 Combines theory with real world case studies to give a comprehensive overview of modern optical wireless technology

Optical Wireless Communications Z. Ghassemlooy,W. Popoola,S. Rajbhandari,2017-07-12 Detailing a systems approach Optical Wireless Communications System and Channel Modelling with MATLAB is a self contained volume that concisely and comprehensively covers the theory and technology of optical wireless communications systems OWC in a way that is suitable for undergraduate and graduate level students as well as researchers and professional engineers Incorporating MATLAB throughout the authors highlight past and current research activities to illustrate optical sources transmitters detectors receivers and other devices used in optical wireless communications They also discuss both indoor and outdoor environments discussing how different factors including various channel models affect system performance and mitigation techniques In addition this book broadly covers crucial aspects of OWC systems Fundamental principles of OWC Devices and systems Modulation techniques and schemes including polarization shift keying Channel models and system performance analysis Emerging visible light communications Terrestrial free space optics communication Use of infrared in indoor OWC One entire chapter explores the emerging field of visible light communications and others describe techniques for using theoretical analysis and simulation to mitigate channel impact on system performance Additional topics include wavelet denoising artificial neural networks and spatial diversity Content also covers different challenges encountered in OWC as well as outlining possible solutions and current research trends A major attraction of the book is the presentation of MATLAB simulations and codes which enable readers to execute extensive simulations and better understand OWC in general

Optical and Microwave Technologies for Telecommunication Networks Otto Strobel,2016-03-28 This is a self contained book on the foundations and applications of optical and microwave technologies to telecommunication networks application with an emphasis on access local road cars trains vessels and airplanes indoor and in car data transmission as well as for long distance fiber systems and application in outer space

and automation technology The book provides a systematic discussion of physics optics electromagnetic wave theory optical fibre technology and the potential and limitations of optical and microwave transmission

Basic Concepts in Information Theory and Coding Solomon W. Golomb, Robert E. Peile, Robert A. Scholtz, 2013-03-09 Basic Concepts in Information Theory and Coding is an outgrowth of a one semester introductory course that has been taught at the University of Southern California since the mid 1960s Lecture notes from that course have evolved in response to student reaction new technological and theoretical developments and the insights of faculty members who have taught the course including the three of us In presenting this material we have made it accessible to a broad audience by limiting prerequisites to basic calculus and the elementary concepts of discrete probability theory To keep the material suitable for a one semester course we have limited its scope to discrete information theory and a general discussion of coding theory without detailed treatment of algorithms for encoding and decoding for various specific code classes Readers will find that this book offers an unusually thorough treatment of noiseless self synchronizing codes as well as the advantage of problem sections that have been honed by reactions and interactions of several generations of bright students while Agent 00111 provides a context for the discussion of abstract concepts

Optical Communication Narottam Das, 2012-10-03 Optical communication is very much useful in telecommunication systems data processing and networking It consists of a transmitter that encodes a message into an optical signal a channel that carries the signal to its desired destination and a receiver that reproduces the message from the received optical signal It presents up to date results on communication systems along with the explanations of their relevance from leading researchers in this field The chapters cover general concepts of optical communication components systems networks signal processing and MIMO systems In recent years optical components and other enhanced signal processing functions are also considered in depth for optical communications systems The researcher has also concentrated on optical devices networking signal processing and MIMO systems and other enhanced functions for optical communication This book is targeted at research development and design engineers from the teams in manufacturing industry academia and telecommunication industries

Error-Correction Coding for Digital Communications George C. Clark Jr., J. Bibb Cain, 1981-06-30 Error correction coding is being used on an almost routine basis in most new communication systems Not only is coding equipment being used to increase the energy efficiency of communication links but coding ideas are also providing innovative solutions to many related communication problems Among these are the elimination of intersymbol interference caused by filtering and multipath and the improved demodulation of certain frequency modulated signals by taking advantage of the natural coding provided by a continuous phase Although several books and numerous articles have been written on coding theory there are still noticeable deficiencies First the practical aspects of translating a specific decoding algorithm into actual hardware have been largely ignored The information that is available is sketchy and is widely dispersed Second the information required to evaluate a particular technique under situations that are encountered in

practice is available for the most part only in private company reports This book is aimed at correcting both of these problems It is written for the design engineer who must build the coding and decoding equipment and for the communication system engineer who must incorporate this equipment into a system It is also suitable as a senior level or first year graduate text for an introductory one semester course in coding theory The book Uses a minimum of mathematics and entirely avoids the classical theorem proof approach that is often seen in coding texts UAV Communications: Modeling and Analyses

Gaofeng Pan,Xiaqing Miao,Xuanhe Yang,Ziyi Yang,2024-03-27 This book provides a comprehensive treatment of the performance evaluation of UAV communication systems using stochastic geometry to explore the impact of the random positions of UAVs on transmission performance The book focuses on engineering practice with both modeling and analysis of UAV communication systems It offers an in depth study of several important UAV communication application scenarios including UAV terrestrial communication UAV to UAV communication satellite UAV communication and UAV relay communication One of the key features of the book is its systematic approach to addressing UAV communication issues and providing practical insights The book is especially useful for readers interested in learning how to model and analyze the performance of UAV communications systems It will benefit researchers engineers and graduate students in the fields of wireless communications signal processing and related areas *Artificial Intelligence and Quantum Computing for*

Advanced Wireless Networks Savo G. Glisic,Beatriz Lorenzo,2022-04-11 ARTIFICIAL INTELLIGENCE AND QUANTUM COMPUTING FOR ADVANCED WIRELESS NETWORKS A comprehensive presentation of the implementation of artificial intelligence and quantum computing technology in large scale communication networks Increasingly dense and flexible wireless networks require the use of artificial intelligence AI for planning network deployment optimization and dynamic control Machine learning algorithms are now often used to predict traffic and network state in order to reserve resources for smooth communication with high reliability and low latency In Artificial Intelligence and Quantum Computing for Advanced Wireless Networks the authors deliver a practical and timely review of AI based learning algorithms with several case studies in both Python and R The book discusses the game theory based learning algorithms used in decision making along with various specific applications in wireless networks like channel network state and traffic prediction Additional chapters include Fundamentals of ML Artificial Neural Networks NN Explainable and Graph NN Learning Equilibria and Games AI Algorithms in Networks Fundamentals of Quantum Communications Quantum Channel Information Theory and Error Correction Quantum Optimization Theory and Quantum Internet to name a few The authors offer readers an intuitive and accessible path from basic topics on machine learning through advanced concepts and techniques in quantum networks Readers will benefit from A thorough introduction to the fundamentals of machine learning algorithms including linear and logistic regression decision trees random forests bagging boosting and support vector machines An exploration of artificial neural networks including multilayer neural networks training and backpropagation FIR architecture spatial temporal

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Encyclopedia of Optical and Photonic Engineering (Print) - Five Volume Set Craig Hoffman, Ronald Driggers, 2015-09-22 The first edition of the Encyclopedia of Optical and Photonic Engineering provided a valuable reference concerning devices or systems that generate transmit measure or detect light and to a lesser degree the basic interaction of light and matter This Second Edition not only reflects the changes in optical and photonic engineering that have occurred since the first edition was published but also Boasts a wealth of new material expanding the encyclopedia's length by 25 percent Contains extensive updates with significant revisions made throughout the text Features contributions from engineers and scientists leading the fields of optics and photonics today With the addition of a second editor the Encyclopedia of Optical and Photonic Engineering Second Edition offers a balanced and up to date look at the fundamentals of a diverse portfolio of technologies and discoveries in areas ranging from x ray optics to photon entanglement and beyond This edition's release corresponds nicely with the United Nations General Assembly's declaration of 2015 as the International Year of Light working in tandem to raise awareness about light's important role in the modern world Also Available Online This Taylor E mail e reference taylorandfrancis com International Tel 44 0 20 7017 6062 E mail online sales tandf co uk

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