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## Theory and Design of Digital Communication Systems

*Cambridge University Press* Providing the underlying principles of digital communication and the design techniques of real-world systems, this textbook prepares senior undergraduate and graduate students for the engineering practices required in industry. Covering the core concepts, including modulation, demodulation, equalization, and channel coding, it provides step-by-step mathematical derivations to aid understanding of background material. In addition to describing the basic theory, the principles of system and subsystem design are introduced, enabling students to visualize the intricate connections between subsystems and understand how each aspect of the design supports the overall goal of achieving reliable communications. Throughout the book, theories are linked to practical applications with over 250 real-world examples, whilst 370 varied homework problems in three levels of difficulty enhance and extend the text material. With this textbook, students can understand how digital communication systems operate in the real world, learn how to design subsystems, and evaluate end-to-end performance with ease and confidence.

## 2/E DIGITAL SATELLITE COMMUNCTNS (NINE)

### Satellite Technology

### An Introduction

*Routledge Satellite Technology, Second Edition* is a complete update of this popular handbook exploring the world of communication satellites. It will help broadcast professionals and students fully understand these indispensable telecommunications tools. Written in easy-to-understand language, this book covers topics ranging from theories of satellite operation to practical instructions for the initial set-up of mobile earth stations. The second edition has been thoroughly updated to include: · the impact of rapid advances in digital technology, · the mass deployment of digital DBS systems, · new initiatives in satellite design, and · changes in regulations.

### Introduction to Satellite Communication

*Artech House* The book covers all the fundamentals of satellites, ground control systems, and earth stations, considering the design and operation of each major segment. You gain a practical understanding of the basic construction and usage of commercial satellite networks. How parts of a satellite system function, how various components interact, which role each component plays, and which factors are the most critical to success.

### VSAT Networks

*John Wiley & Sons* VSAT Networks: Second Edition covers all the important issues involved with the installation of VSAT systems. Since the first edition was published, the VSAT market has continued to expand steadily. VSAT technologies have advanced, prompting an increase in the take-up of VSAT services. Offering a comprehensive introduction to the topic followed by a detailed exploration of multiple access protocols, delay analysis and system dimensioning, this edition is a highly relevant update of VSAT Networks. Written by a well respected and established member of the satellite community, it will be welcomed by academics and engineers alike. Covers important issues of services, economics and regulatory aspects. Provides a detailed technical insight on networking and radio frequency link aspects, therefore addressing the specific features of VSAT networks at the three lower layers of the OSI Reference Layer Model for data communications. This timely second edition is fully updated with new figures, improvements and revised chapter on future developments. This book will appeal to students of telecommunications, electronics and computer science. Practising telecommunications engineers and technical managers involved in the planning, design and operation of VSAT networks and systems will also find this book a valuable reference source.

### Satellite Communications

*New York : Montreal : McGraw-Hill* This comprehensive text provides details on all types of analog and digital satellite communications systems. It clearly explains the "hows" and the "whys" of orbital mechanics; describes basic hardware such as satellite structures, antennas, and earth stations; and spotlights a wide variety of the latest telecommunications applications.

### Data Communications

### Monthly Catalog of United States Government Publications

### Monthly Catalogue, United States Public Documents

### Satellite Communications

*McGraw-Hill Professional Publishing* THE DEFINITIVE REFERENCE ON SATELLITE COMMUNICATIONS Satellite Communications, Third Edition is the latest update of the reference widely regarded as the most complete and accessible intro to this dynamic area of engineering. This edition has been revised to include the hottest applications in a rapidly growing field with expanded coverage of CDMA...new Internet via satellite and digital TV broadcasting chapters...an expanded section on geostationary orbits...error correction coding...and a preview of coming applications and growth. Author Dennis Roddy's authoritative and readable treatment provides you with: Full descriptions of hardware, including satellite structures, antennas, earth stations, and onboard systems. Cutting-edge applications such as wireless Internet, telephony, Global Positioning Systems (GPS), and worldwide broadcasts of digital TV. New information on ATM, TCP/IP, and LEO networking over satellites, mobile systems, and onboard switching. Details on methods, orbits, links, access, signals, modulation, and interference. All examples and problems worked in MathCad, with mathematical complexities pared to a minimum.

### Satellite Communication Engineering

*CRC Press* Highlighting satellite and earth station design, links and communication systems, error detection and correction, and regulations and procedures for system modeling, integrations, testing, and evaluation, Satellite Communication Engineering provides a simple and concise overview of the fundamental principles common to information communications. It

### IETE Journal of Research

### Sci-tech News

### Satellite Communication Systems Engineering

*Prentice Hall*

### The Ku-band Satellite Handbook

*Sams*

### Books in Print Supplement

## Forthcoming Books

### Video Engineering

*McGraw Hill Professional* Describes some of the sights and experiences on a trip to Israel, including visits to Jerusalem, Bethlehem, Tel Aviv-Jaffa, Haifa, and Nazareth.

### Guide to Telecommunications Transmission Systems

*Artech House Publishers* Gain sharper insight into each of today's telecommunications transmission systems, and make more informed decisions when choosing a particular system application with this comprehensive reference. It saves you time from searching through mountains of technical articles and white papers by offering an in-depth study of all five forms of transmission systems currently in use: copper lines, optical fiber, radio relay, mobile radio, and satellite.

### MILCOM 2000

### 21st Century Military Communications : Conference Proceedings : Unclassified Proceedings : 22-25 October, 2000, Los Angeles, California

### Proceedings

### Conference Record

### The Satellite Communication Ground Segment and Earth Station Handbook

*Artech House on Demand* From international telephone network gateways to direct broadcast home receivers, today's broad range of ground systems and devices require satellite communication engineers and business managers to have a broad and sound understanding of the design and operating principles of earth stations and ground control facilities. The book is the first to explore the delivery end of the satellite link and its relationship to delivery of services.

### Broadcasting & Cable Yearbook

### International Aerospace Abstracts

### A First Course in Digital Communications

*Cambridge University Press* A concise introduction to the core concepts in digital communication, providing clarity and depth through examples, problems and MATLAB exercises. Its simple structure maps a logical route to understand the most basic principles in digital communication, and also leads students through more in-depth treatment with examples and step-by step instructions.

### Satellite Communications Systems

### Systems, Techniques and Technology

*Wiley* Satellite communications refers to the utilisation of geostationary orbiting satellites to relay the transmission received from one earth station to one or more earth stations. They are the outcome of research in the area of communications whose objective is to achieve ever-increasing ranges and capacities with the lowest possible costs. Since publication of the first edition, satellite communications systems have become increasingly sophisticated. This revised, updated and extended fourth edition covers the entire field of satellite communications engineering from the techniques of orbital mechanics and radio wave propagation to the design of communication links and earth stations. \* Features an improved presentation of satellite applications with regards to services \* Discusses the most recent developments in this evolving field, including MPEG2, concatenated coding, digital TV and examples of transmission of digital telephony \* Practical approach and extensive illustrations are highly valued by student audience \* A single source, comprehensive and thorough reference covering the entire field of satellite communications engineering. New features include: \* An updated section on the evolution of satellite communications and the deployment of services \* Inclusion of MPEG2, concatenated coding and coded modulation \* Discusses examples for the transmission of digital telephony, digital TV and data, introduction of DVB-s (Digital Video Broadcasting by satellite) standard \* Complete re-organisation of Chapters 5 and 6 resulting in a unique new Chapter 5 entitled 'Service Oriented Satellite Networks' \* Recent developments in deployable antennas \* Lithium batteries \* New launchers such as Atlas 3 and 4 A leading edge resource for advanced students, engineers and designers in the field of satellite and mobile radio communications and also communication engineers.

### Books in Print

### Satellite Communications

*Wiley* Includes chapters on orbital mechanics, spacecraft construction, satellite-path radio wave propagation, modulation techniques, multiple access, and a detailed analysis of the communications link.

### Scientific and Technical Books and Serials in Print

### Index to IEEE Publications

Issues for 1973- cover the entire IEEE technical literature.

### Publishers' Trade List Annual

### Telecommunications Abstracts

### Satellite Technology

### Principles and Applications

*John Wiley & Sons* Fully updated edition of the comprehensive, single-source reference on satellite technology and its applications Covering both the technology and its applications, Satellite Technology is a concise reference on satellites for commercial, scientific and military purposes. The book explains satellite technology fully, beginning by offering an introduction to the fundamentals, before covering orbits and trajectories, launch and in-orbit operations, hardware, communication techniques, multiple access techniques, and link design fundamentals. This new edition also includes comprehensive chapters on Satellite Networks and Satellite Technology - Emerging Trends. Providing a complete survey of applications, from remote sensing and military uses, to navigational and scientific applications, the authors also present an inclusive compendium on satellites and satellite launch vehicles. Filled with diagrams and illustrations, this book serves as an ideal introduction for those new to the topic, as well as a reference point for professionals. Fully updated edition of the comprehensive, single-source reference on satellite technology and its applications - remote sensing, weather, navigation, scientific, and military - including new chapters on Satellite Networks and Satellite Technology - Emerging Trends Covers the full range of satellite applications in remote sensing, meteorology, the military, navigation and science, and communications, including satellite-to-under sea communication, satellite cell-phones, and global Xpress system of INMARSAT The cross-disciplinary coverage makes the book an essential reference book for professionals, R&D scientists and students at post graduate level Companion website provides a complete compendium on satellites and satellite launch vehicles An ideal introduction for Professionals and R&D scientists in the field. Engineering Students. Cross disciplinary information for engineers and technical managers.

## Digital Communication

*This book is for designers and would-be designers of digital communication systems. The general approach of this book is to extract the common principles underlying a range of media and applications and present them in a unified framework. Digital Communication is relevant to the design of a variety of systems, including voice and video digital cellular telephone, digital CATV distribution, wireless LANs, digital subscriber loop, metallic Ethernet, voiceband data modems, and satellite communication systems. New in this Third Edition: New material on recent advances in wireless communications, error-control coding, and multi-user communications has been added. As a result, two new chapters have been added, one on the theory of MIMO channels, and the other on diversity techniques for mitigating fading. Error-control coding has been rewritten to reflect the current state of the art. Chapters 6 through 9 from the Second Edition have been reorganized and streamlined to highlight pulse-amplitude modulation, becoming the new Chapters 5 through 7. Readability is increased by relegating many of the more detailed derivations to appendices and exercise solutions, both of which are included in the book. Exercises, problems, and solutions have been revised and expanded. Three chapters from the previous edition have been moved to the book's Web site to make room for new material. This book is ideal as a first-year graduate textbook, and is essential to many industry professionals. The book is attractive to both audiences through the inclusion of many practical examples and a practical flavor in the choice of topics. Digital Communication has a Web site at: <http://www.ece.gatech.edu/~barry/digital/>, where the reader may find additional information from the Second Edition, other supplementary materials, useful links, a problem solutions manual, and errata.*

## Electronic Communication Systems

## Communication Systems Engineering

*Thorough coverage of basic digital communication system principles ensures that readers are exposed to all basic relevant topics in digital communication system design. The use of CD player and JPEG image coding standard as examples of systems that employ modern communication principles allows readers to relate the theory to practical systems. Over 180 worked-out examples throughout the book aids readers in understanding basic concepts. Over 480 problems involving applications to practical systems such as satellite communications systems, ionospheric channels, and mobile radio channels gives readers ample opportunity to practice the concepts they have just learned. With an emphasis on digital communications, Communication Systems Engineering, Second Edition introduces the basic principles underlying the analysis and design of communication systems. In addition, this book gives a solid introduction to analog communications and a review of important mathematical foundation topics. New material has been added on wireless communication systems—GSM and CDMA/IS-94; turbo codes and iterative decoding; multicarrier (OFDM) systems; multiple antenna systems. Includes thorough coverage of basic digital communication system principles—including source coding, channel coding, baseband and carrier modulation, channel distortion, channel equalization, synchronization, and wireless communications. Includes basic coverage of analog modulation such as amplitude modulation, phase modulation, and frequency modulation as well as demodulation methods. For use as a reference for electrical engineers for all basic relevant topics in digital communication system design.*

## Beyond the Ionosphere

## Fifty Years of Satellite Communication

*Franklin Classics Trade Press This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. To ensure a quality reading experience, this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy-to-read typeface. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.*

## Introduction to Digital Communication

*Macmillan Coll Division This book provides a comprehensive and in-depth practical introduction to digital communications, from fundamental theory to state-of-the-art material. It incorporates many practical examples of design issues. The book offers a broad perspective through a wide range of discussion topics, as well as basic background material. It covers a wide range of topics, including digital modulation; signal-space methods; coding; spread spectrum communications; digital cellular communications; and satellite communication link analysis. The book includes derivations as well as tables of special functions. It also provides applications of MATLAB programs useful in communication system design. A valuable reference book for professional communications engineers.*

## Books in Series, 1985-89

## Cumulative 1985-88