

**Course Objectives**

- Understand the fundamentals of data communication and various components of communication systems.
- Detect errors in data which occur during transmission and also correct errors using suitable error detection and correction techniques.
- Demonstrate various flow control techniques in data link layer and select suitable technique based on scenario.
- Compare the performance of media access protocols in wired and wireless channel.

**Abstract**

Introduction to Data Communication, Signals, Basic properties of data communication system, Nyquist rate, Shannon Capacity, Signal encoding, Modulation schemes, Transmission media, Wired and wireless transmission, Error detection and correction, Cyclic redundancy check, Hamming code, Stop and wait flow control, Sliding window flow control, Automatic repeat request, High level data Link control, Multiplexing, Media Access Sub layer and LAN, Random access protocols, Bridges.

**Syllabus****Data Communication fundamentals**

Introduction to Data Communication, Signals, Digital representation of information, Basic properties of data communication system, Time and frequency domain characterization of communication channels, Nyquist signaling rate, Shannon Channel capacity, Line coding- NRZ, bipolar, Manchester, Differential Manchester encoding, Digital modulation-ASK, FSK, PSK, QAM.

**[10 Hours]****Transmission Media**

Twisted pair, Coaxial cable, Optical fiber, Wireless transmission.

**[03 Hours]****Error detection and correction**

Asynchronous and synchronous transmission, Error detection and correction basics, Parity check, Internet checksum, Polynomial codes, Block code, Hamming code.

**[06 Hours]****Peer to Peer Protocols**

Peer to peer protocols and service models, ARQ protocols- Stop and wait, Go back N, selective repeat, Transmission efficiency of ARQ protocols, Other adaptation functions- Sliding window flow control, Timing recovery for synchronous services, Reliable stream service, Data link control- HDLC datalink control, point to point control, Multiplexing-FDM, TDM, STDM.

**[11 Hours]**

# Principles Of Data Communication

**Andrew Simmonds**



## **Principles Of Data Communication:**

*Data Communications Principles* Richard D. Gitlin,Jeremiah F. Hayes,Stephen B. Weinstein,1992-09-30 This unique text for both the first year graduate student and the newcomer to the field provides in depth coverage of the basic principles of data communications and covers material which is not treated in other texts including phase and timing recovery and echo cancellation Throughout the book exercises and applications illustrate the material while up to date references round out the work

**Principles of Data Communication** R. W. Lucky,J. Salz,E. J. Weldon,1968      **Data Communications**

**Principles** Richard D. Gitlin,Jeremiah F. Hayes,Stephen B. Weinstein,2012-12-06 This unique text for both the first year graduate student and the newcomer to the field provides in depth coverage of the basic principles of data communications and covers material which is not treated in other texts including phase and timing recovery and echo cancellation Throughout the book exercises and applications illustrate the material while up to date references round out the work

**Principles of Digital Data Transmission** A. P. Clark,1976      **Principles of Data Communication** James Martin,Joe Leben,1988      Principles of Voice & Data Communications Regis J. Bates,Marcus Bates,2007 Principles of Voice and Data Communicationis a technology book for the non technical student a comprehensive overview of the entire networking industry built on unrivaled real world experience With its helpful pedagogy teaching support and student friendly tone

Principles of Voice and Data Communicationgives students the foundation they need to enter and succeed in the technology and communications fields      **Principles of Data Communication Systems and Computer Networks (Second Edition)**

K.V.K.K. Prasad,2003-07-17 A Comprehensive coverage of Digital communication Data Communication Protocols and Mobile ComputingCovers Multiplexing Multiple accesses Radio Communications Terrestrial Satellite Error Detection Correction ISO OSI Protocol Architecture Wired Internet DNS RADIUS Firewalls VPN Cellular Mobile Communication GPS CTI Wireless Internet Multimedia Communication over IP Networks      *Data Communication Principles* Aftab Ahmad,2003 Data

Communication Principles for Fixed and Wireless Networks focuses on the physical and data link layers Included are examples that apply to a diversified range of higher level protocols such as TCP IP OSI and packet based wireless networks Performance modeling is introduced for beginners requiring basic mathematics Separate discussion has been included on wireless cellular networks performance and on the simulation of networks Throughout the book wireless LANS has been given the same level of treatment as fixed network protocols It is assumed that readers would be familiar with basic mathematics and have some knowledge of binary number systems Data Communication Principles for Fixed and Wireless Networks is for students at the senior undergraduate and first year graduate levels It can also be used as a reference work for professionals working in the areas of data networks computer networks and internet protocols      *Principles of Data*

*Communication* Deltak, Inc,1980      **Data Communication Principles** Aftab Ahmad,2013-03-21 Data Communication Principles for Fixed and Wireless Networks focuses on the physical and data link layers Included are examples that apply to a

diversified range of higher level protocols such as TCP IP OSI and packet based wireless networks Performance modeling is introduced for beginners requiring basic mathematics Separate discussion has been included on wireless cellular networks performance and on the simulation of networks Throughout the book wireless LANs has been given the same level of treatment as fixed network protocols It is assumed that readers would be familiar with basic mathematics and have some knowledge of binary number systems Data Communication Principles for Fixed and Wireless Networks is for students at the senior undergraduate and first year graduate levels It can also be used as a reference work for professionals working in the areas of data networks computer networks and internet protocols

**Review Of Digital Communication** J. Das, 2003 With The Global Trends In Communication And Data Networks Leading To Idn And Isdn There Is A Special Need For A Comprehensive Book On The state Of The Art In Digital Communication In The Absence Of Such A Reference Book Most Of Our Senior Professionals And Academics Find It Very Hard To Keep Themselves Abreast Of The Recent Developments Leading To Information Revolution And Digital Revolution The Present Volume Is An Attempt To Fill This Gap The Book Consists Of Ten Chapters And Discusses Such Topics As Principles Of Digital Modulation Source Encoding Data Transmission Through Cables And Optical Fibres Digital Radio Including Satellite Communication Data Networks And Digital Switching Information Theory And Coding Survival Of Communication Including Spread Spectrum Techniques And Future Trends Including Isdn Conceptually The Chapters Attempt To Discuss From A System Point Of View A Total Digital Communication Network E G Idn And The Total Range Of Signal Processing Techniques Has Been Presented In Subsequent Chapters Thus Maintaining A Continuity Of Thought From End To End The Book Is Therefore Addressed To Both Professionals In Telecommunications And Senior Students In This Area

**Data Communications and Transmission Principles** Andrew Simmonds, 1997 The author describes the basics of data communications with transmission principles an approach not found in other guides and manuals The book offers comprehensive coverage of the topic without sacrificing detail

**Principles of Data Communication** Richard Dolph, 1984 *Telecommunications Engineer's Reference Book* Fraidoon Mazda, 2014-06-28 Telecommunications Engineer's Reference Book maintains a balance between developments and established technology in telecommunications This book consists of four parts Part 1 introduces mathematical techniques that are required for the analysis of telecommunication systems The physical environment of telecommunications and basic principles such as the teletraffic theory electromagnetic waves optics and vision ionosphere and troposphere and signals and noise are described in Part 2 Part 3 covers the political and regulatory environment of the telecommunications industry telecommunication standards open system interconnect reference model multiple access techniques and network management The last part deliberates telecommunication applications that includes synchronous digital hierarchy asynchronous transfer mode integrated services digital network switching systems centrex and call management This publication is intended for practicing engineers and as a supplementary text for undergraduate courses in

telecommunications      Data Communication Principles For Fixed And Wireless Networks Ahmad,2008-10-01      *Mobile Computing Principles* Reza B'Far,2004-11-01 Written to address technical concerns that mobile developers face regardless of the platform J2ME WAP Windows CE etc this 2005 book explores the differences between mobile and stationary applications and the architectural and software development concepts needed to build a mobile application Using UML as a tool Reza B far guides the developer through the development process showing how to document the design and implementation of the application He focuses on general concepts while using platforms as examples or as possible tools After introducing UML XML and derivative tools necessary for developing mobile software applications B far shows how to build user interfaces for mobile applications He covers location sensitivity wireless connectivity mobile agents data synchronization security and push based technologies and finally homes in on the practical issues of mobile application development including the development cycle for mobile applications testing mobile applications architectural concerns and a case study      Telecommunications Principles J. O'Reilly,1989-02-28 This introduction to telecommunications provides a broad view of modern telecommunications principles and applications The revised and expanded edition will meet the needs of a wider audience through the addition of more advanced material particularly the treatment of the Fourier transform and the greater emphasis placed on the influence of noise on system performance The book concludes with a set of case studies which illustrate the principles introduced and demonstrate their applications There is a new case study on the Compact Disc as a communications system In keeping with the other books in the series this book has marginal notes to expand and enrich the main text worked examples that illustrate theory and applications problems with answers graded according to difficulty at the ends of chapters and clear cross referencing to other titles in the series where appropriate      *The 1984 Guide to the Evaluation of Educational Experiences in the Armed Services* American Council on Education,1984      **The 1980 Guide to the Evaluation of Educational Experiences in the Armed Services: Army** American Council on Education,1980

*Principles of Intelligent Rail Transit* Xiubin Zhang,Muhammad Mansoor Khan,Yeerjiang Halimu,2022-11-28 This book systematically expounds on the scientific principles and technologies of Rail Transit Intelligent Technology based on the high development of artificial intelligence theory and technology The contents include technical principles theoretical algorithms and practical engineering technologies of intelligent monitoring of rail transit system intelligent sensing and identification of train power system intelligent technology in rail transit system operation intelligent maintenance of carriage environment etc It can be used as a textbook or teaching reference book for related fields in universities including rail transit system communication automation intelligent equipment design and manufacturing artificial intelligence computer science and technology electrical engineering and automation etc It is used as an academic reference for professionals in rail transit system design operation and maintenance

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## **Table of Contents Principles Of Data Communication**

1. Understanding the eBook Principles Of Data Communication
  - The Rise of Digital Reading Principles Of Data Communication
  - Advantages of eBooks Over Traditional Books
2. Identifying Principles Of Data Communication
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Principles Of Data Communication
  - User-Friendly Interface
4. Exploring eBook Recommendations from Principles Of Data Communication
  - Personalized Recommendations
  - Principles Of Data Communication User Reviews and Ratings
  - Principles Of Data Communication and Bestseller Lists
5. Accessing Principles Of Data Communication Free and Paid eBooks
  - Principles Of Data Communication Public Domain eBooks

- Principles Of Data Communication eBook Subscription Services
- Principles Of Data Communication Budget-Friendly Options
- 6. Navigating Principles Of Data Communication eBook Formats
  - ePub, PDF, MOBI, and More
  - Principles Of Data Communication Compatibility with Devices
  - Principles Of Data Communication Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Principles Of Data Communication
  - Highlighting and Note-Taking Principles Of Data Communication
  - Interactive Elements Principles Of Data Communication
- 8. Staying Engaged with Principles Of Data Communication
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Principles Of Data Communication
- 9. Balancing eBooks and Physical Books Principles Of Data Communication
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Principles Of Data Communication
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Principles Of Data Communication
  - Setting Reading Goals Principles Of Data Communication
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Principles Of Data Communication
  - Fact-Checking eBook Content of Principles Of Data Communication
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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