

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

J.K. Petersen



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 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 have 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 Digital Data Transmission A. P. Clark, 1976

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.

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

Principles of Data Communication Richard Dolph, 1984

The 1984 Guide to the Evaluation of Educational Experiences in the Armed Services American Council on Education, 1984

Digital Communication John R. Barry, Edward A. Lee, David G. Messerschmitt, 2004

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

The 1980 Guide to the Evaluation of Educational Experiences in the Armed Services: Army American Council on Education,1980 *Data Communication Principles For Fixed And Wireless Networks* Ahmad,2008-10-01

Introduction to Digital Communications Ali Grami,2025-06-20 Introduction to Digital Communications Second Edition is written for upper level undergraduate courses who need to understand the basic principles in the analysis and design of digital communication systems including design objectives constraints and trade offs After portraying the big picture and laying the background material the book lucidly progresses to a comprehensive and detailed discussion of all critical elements and key functions in digital communications The second edition has been fully revised with timely new chapters on wireless enabling systems and encryption more practical examples more application focused real world end of chapter exercises and a more crisp and concise approach to the content Focuses exclusively on digital communications with complete coverage of source and channel coding modulation and synchronization Discusses major aspects of communication networks and multiuser communications Provides insightful descriptions and intuitive explanations of all complex concepts Includes a companion website with solutions to end of chapter problems and computer exercises lecture slides and figures and tables from the text Presents enhanced coverage of signal space constellations phase locked loop and link analysis

Communication System Design Using DSP Algorithms Steven A. Tretter,2013-06-29 Designed for senior electrical engineering students this textbook explores the theoretical concepts of digital signal processing and communication systems by presenting laboratory experiments using real time DSP hardware Each experiment begins with a presentation of the required theory and concludes with instructions for performing them Engineering students gain experience in working with equipment commonly used in industry This text features DSP based algorithms for transmitter and receiver functions

Fiber Optics Illustrated Dictionary J.K. Petersen,2018-10-03 Within a few short years fiber optics has skyrocketed from an interesting laboratory experiment to a billion dollar industry But with such meteoric growth and recent exciting advances even references published less than five years ago are already out of date The Fiber Optics Illustrated Dictionary fills a gap in the literature by providing instructors hobbyists and top level engineers with an accessible current reference From the author of the best selling Telecommunications Illustrated Dictionary this comprehensive reference includes

fundamental physics basic technical information for fiber splicing installation maintenance and repair and follow up information for communications and other professionals using fiber optic components Well balanced well researched and extensively cross referenced it also includes hundreds of photographs charts and diagrams that clarify the more complex ideas and put simpler ideas into their applications context Fiber optics is a vibrant field not just in terms of its growth and increasing sophistication but also in terms of the people places and details that make up this challenging and rewarding industry In addition to furnishing an authoritative up to date resource for relevant industry definitions this dictionary introduces many exciting recent applications as well as hinting at emerging future technologies

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