

CHAPTER 5

DATA COMMUNICATION, COMPUTER NETWORK AND THE INTERNET

Data Communication

- An electronic transmission of information that has been encoded digitally for storage and processing by computers.
- Data communications (DC) is the process of using computing and communication technologies to transfer data from one place to another, and vice versa
- The media used to transmit may be guided or unguided

Data Communication And Computer Networks Chapter 5 Medium

William A. Shay



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Data Communication Principles Aftab Ahmad,2007-05-08 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 *Data Communication And Computer Networks* Rajneesh Agarwal,2009-11-01 Data Communication And Computer Networks Deals With Various Aspects Of The Subject Vis Vis The Emerging Trends In Network Centric Information Technology It Provides The Reader With An In Depth Framework Of The Fundamental Concepts Networking Involves NETWORK SECURITY AND MANAGEMENT BRIJENDRA SINGH,2011-12-24 Written in an easy to understand style this textbook now in its third edition continues to discuss in detail important concepts and major developments in network security and management It is designed for a one semester course for undergraduate students of Computer Science Information Technology and undergraduate and postgraduate students of Computer Applications Students are first exposed to network security principles organizational policy and security infrastructure and then drawn into some of the deeper issues of cryptographic algorithms and protocols underlying network security applications Encryption methods secret key and public key cryptography digital signature and other security mechanisms are emphasized Smart card biometrics virtual private networks trusted operating systems pretty good privacy database security and intrusion detection systems are comprehensively covered An in depth analysis of technical issues involved in security management risk management and security and law is presented In the third edition two new chapters one on Information Systems Security and the other on Web Security and many new sections such as digital signature Kerberos public key infrastructure software security and electronic mail security have been included Additional matter has also been added in many existing sections **KEY FEATURES** Extensive use of block diagrams throughout helps explain and clarify the concepts discussed About 250 questions and answers at the end of the book facilitate fruitful revision of the topics covered Includes a glossary of important terms **KEY FEATURES** Extensive use of block diagrams throughout helps explain and clarify the concepts discussed About 250 questions and answers at the end of the book facilitate fruitful revision of the topics covered Includes a glossary of important terms Computer Communications R. COLE,2013-12-19 The subject of computer communications is changing very rapidly Improvements in terminal access aligned with the development of timesharing has brought hands on experience

to a large number of non specialist users Computer networks have made available vast computing resources and data banks to these users This book is for anyone familiar with using computers who wishes to understand the techniques used in computer communications It is also an introduction to the architecture of present day computer communication systems I would like to thank Roland Ibbett Steve Treadwell Peter Kirstein and Del Thomas for their invaluable advice and encouragement My thanks also to Malcolm Stewart and the staff at Macmillan The late Gareth Pugh encouraged my interest in computer communications and provided the opportunity to develop the material for this book The text was formatted on a UNIX computer system I am grateful to Professor Kirstein for permission to use this system I am indebted to NEC Telecommunications Europe for the use of a spinwriter printer on which the master copy was produced Finally no amount of words can express my debt to Jo this project and Rosemary for patiently bearing with over the last three years

Business Data Communications and Networking Jerry FitzGerald, Alan Dennis, Alexandra Durcikova, 2020-12-03 Business Data Communications and Networking 14th Edition presents a classroom tested approach to the subject combining foundational concepts practical exercises and real world case studies The text provides a balanced well rounded presentation of data communications while highlighting its importance to nearly every aspect of modern business This fully updated new edition helps students understand how networks work and what is required to build and manage scalable mobile and secure networks Clear student friendly chapters introduce explain and summarize fundamental concepts and applications such as server architecture network and transport layers network design processes and tools wired and wireless networking and network security and management An array of pedagogical features teaches students how to select the appropriate technologies necessary to build and manage networks that meet organizational needs maximize competitive advantage and protect networks and data from cybersecurity threats Discussions of real world management and technical issues from improving device performance to assessing and controlling costs provide students with insight into the daily networking operations of actual businesses

Data Communications, Computer Networks and OSI Fred Halsall, 1988 Data Communications and Computer Networks Michael Duck, Richard Read, 2003 Introduction datacommunications information theory introduction to local area networks Internet protocols

Data and Computer Communications William Stallings, 1991 This timely revision of an all time best seller in the field features the clarity and scope of a Stallings classic This comprehensive volume provides the most up to date coverage of the essential topics in data communications networking Internet technology and protocols and standards all in a convenient modular format Features updated coverage of multimedia Gigabit and 10 Gbps Ethernet WiFi IEEE 802.11 wireless LANs security and much more Ideal for professional reference or self study For Product Development personnel Programmers Systems Engineers Network Designers and others involved in the design of data communications and networking products

Data Communications and Computer Networks Curt M. White, 2002 This complete introduction to data communications is written to bring a fresh readable

business oriented perspective to the technology that lies at the heart of the booming telecommunications revolution Providing a solid background of fundamentals to tomorrow s information systems professionals this survey of data communications keeps a balance between the super technical and the watered down providing a solid understanding not only of how things work but how they can be applied to create business solutions An accompanying interactive CD ROM integrates tightly with the book and provides 11 modules that make concepts come to life and allow hands on practice of skills This new updated second edition features even more remediation at the end of each chapter and coverage of cutting edge technologies such as Bluetooth highly elliptical orbiting satellites V 92 code division multiplexing and wireless technologies

Data and Network Communications Michael A. Miller,2000 Complete coverage of the basics as well as extensive technical information make this easy to read book valuable for electronics technicians and technologists looking to enhance their skills in data communications and networking There is detailed coverage of protocols at all levels of the OSI model There s an in depth look at the use of the Internet and network security as well as the system underlying these subjects And an online companion Web site provides even more information

Understanding Data Communications and Networks William A. Shay,1999 This text presents data communications and network fundamentals and a wide array of specific applications at a level for Junior CS and CIS majors intending to be information systems professionals The 2nd edition is updated with new information on state of the art developments supporting the World Wide Web including expanded and updated coverage of LAN WAN systems and protocols and such topics as asynchronous transfer mode ATM modems encryption and network security

Information Systems Technology Ross A. Malaga,2005 This book introduces information systems and their underlying technologies to readers laying a solid foundation of knowledge before discussing their use and management Chapter topics cover hardware software database and networking technologies Internet and World Wide Web technologies using information systems for electronic business decision making and business integration managing information systems for strategic advantage managing the development and purchase of information systems and managing security disaster recovery and data retention For individuals interested in a career in business with an interest but little or no knowledge of information systems and the field of IT

Enterprise Networking for Information Systems Professionals Norman Witkin,1995-06-05 Written for systems professionals systems analysts and communications staffs this volume will appeal to IS managers feeling a downsizing pinch It is a big picture book filled with enough details to satisfy the needs of any IS professional and presents most of the communication choices an IS manager may have to make

[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

Management-oriented Management Information Systems Jerome Kanter,1977 Textbook on management utilization of EDP with particular reference to the effects of management information systems on management technique in the USA illustrates the application of principles of systems design programme planning operational management scientific management etc covers relevant advances in computer science and includes case studies of business situations Diagrams flow charts glossary of computer terms and references

Computer Networks John Y. Hsu,1996 The explosive growth of computer networking is creating new pressures on computer professionals not only to have a firm grasp of networking basics but also to understand the latest developments in network design software implementation and network management This comprehensive practical book provides that critical understanding by clearly detailing networking fundamentals operating system essentials and cutting edge LAN and WAN design features

Data Communications, Networks, and Systems Thomas C. Bartee,1992 This book provides essential information about modems multiplexers concentrators fiber optics and cables Plus the latest developments in legalities and communications law are discussed

CISA Certified Information Systems Auditor All-in-One Exam Guide Peter Gregory,2009-08-16 All in One is All You Need CISA Certified Information Systems Auditor All in One Exam Guide Get complete coverage of all the material included on the Certified Information Systems Auditor exam inside this comprehensive resource Written by an IT security and audit expert this authoritative guide covers all six exam domains developed by the Information Systems Audit and Control Association ISACA You ll find learning objectives at the beginning of each chapter exam tips practice exam questions and in depth explanations Designed to help you pass the CISA exam with ease this definitive volume also serves as an essential on the job reference Covers all exam topics including IS audit process IT governance Network technology and security Systems and infrastructure lifestyle management IT service delivery and support Protection of information assets Physical security Business continuity and disaster recovery

Introduction to Information Systems in Business Management James A. O'Brien,1991

Computer Networking Concepts Emilio Ramos,Al Schroeder,Ann Beheler,1996 Designed to satisfy the introductory knowledge requirements of a beginning student this text s functional approach to network schemas should keep readers up to date with current industry practices Networking schemas covered include TCP IP SAA Novell NetWare Microsoft Windows NT Advanced Server and Banyan Vines A comparison of major LAN operating systems is also included It is designed for students on introductory networking courses

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