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DATA COMMUNICATIONS AND NETWORKS

AN ENGINEERING APPROACH

James Irvine
David Harle

Data Communications And Networks An Engineering Approach

Lionel M. Ni, Taieb F. Znati



Data Communications And Networks An Engineering Approach:

Data Communications and Networks James Irvine, David Harle, 2001-11-28 *Data Communications and Networks* uses a top down Internet focussed approach to tackle the problem of communication system design An integrated approach is taken to networks and data communications with an emphasis that starts from the top level requirements and works downwards describing how such requirements are fulfilled by lower layers of the transmission chain While the book contains sufficient detail to provide an excellent foundation clarity is paramount and care is taken not to swamp the reader with information to the point where the underlying concepts are obscured The Internet is used as the principle example of a communication system allowing the reader to follow the system from the application layers with source coding and security through the network with naming and routing algorithms down to transport and physical aspects of a communication system Modern techniques such as mobile radio Voice over IP and ASDL are covered while more traditional aspects such as circuit switching which still form a significant part of current systems are not overlooked By providing a technical introduction and including application examples this text will have significant appeal to final year students postgraduates and professionals with a science or engineering background wishing to gain a basic understanding of the key concepts behind data communications engineering

[Data Communication and Networking: A Practical Approach](#) Massoud Moussavi, 2011-12-05 *Data Communication and Networking* First Edition provides a solid thorough overview of data communications and networking for Engineering Technology programs This text covers information for one or more courses spanning digital communication systems computer communication and networks and data communications It is specifically written and designed for engineering and engineering technology learners by using a systematic and visual approach with abundant tables illustrations and practical examples making it easy for students to comprehend concepts Content begins with data communication signal conversion and issues in data transmission Each chapter includes an introduction summary of key information as well as practice questions and problems with answers The text also includes coverage of network and network standards Ethernet network components and Transmission Control and Internets Protocols TCP IP The integration of applications and laboratory experiments are found throughout the text making *Data Communication and Networking* First Edition a one of a kind and practical text Important Notice Media content referenced within the product description or the product text may not be available in the ebook version

[Fundamentals of Data Communication Networks](#) Oliver C. Ibe, 2017-12-20 What every electrical engineering student and technical professional needs to know about data exchange across networks While most electrical engineering students learn how the individual components that make up data communication technologies work they rarely learn how the parts work together in complete data communication networks In part this is due to the fact that until now there have been no texts on data communication networking written for undergraduate electrical engineering students Based on the author s years of classroom experience *Fundamentals of Data*

Communication Networks fills that gap in the pedagogical literature providing readers with a much needed overview of all relevant aspects of data communication networking addressed from the perspective of the various technologies involved. The demand for information exchange in networks continues to grow at a staggering rate and that demand will continue to mount exponentially as the number of interconnected IoT enabled devices grows to an expected twenty six billion by the year 2020. Never has it been more urgent for engineering students to understand the fundamental science and technology behind data communication and this book the first of its kind gives them that understanding. To achieve this goal the book combines signal theory, data protocols and wireless networking concepts into one text. Explores the full range of issues that affect common processes such as media downloads and online games. Addresses services for the network layer, the transport layer and the application layer. Investigates multiple access schemes and local area networks with coverage of services for the physical layer and the data link layer. Describes mobile communication networks and critical issues in network security. Includes problem sets in each chapter to test and fine tune readers understanding.

Fundamentals of Data Communication Networks is a must read for advanced undergraduates and graduate students in electrical and computer engineering. It is also a valuable working resource for researchers, electrical engineers and technical professionals.

Proceedings of the Twenty-sixth SIGCSE Technical Symposium on Computer Science Education Cary Laxer, 1995

Scientific and Technical Aerospace Reports, 1989

[Data Communications and Computer Networks](#) Michael Duck, Richard Read, 2003

Introduction, data communications, information theory, introduction to local area networks, Internet protocols

[Data Communications, Computer Networks and Open Systems](#) Fred Halsall, 1996. Fully revised and updated the fourth edition includes new chapters on broadband multi service networks, a revamped chapter with extended and updated coverage of FDDI and a new section on Fast Ethernet covering 100BaseT, 100Base X, wireless LANs and several additional candidate technologies.

Advanced Data Communications and Networks Bill Buchanan, 2023-08-11. The use of data communications and computer networks is constantly increasing bringing benefits to most of the countries and peoples of the world and serving as the lifeline of industry. Now there is a textbook that discusses data communications and networking in a readable form that can be easily understood by students who will become the IS professionals of the future. **Advanced Data Communications and Networks** provides a comprehensive and practical treatment of rapidly evolving areas. The text is divided into seven main sections and appendices: General data compression, Video images and sound, Error coding and encryption, TCP/IP and the Internet Network operating systems, LANs, WANs, Cables and connectors. Other topics include error detection, correction, image, video, compression, digital video, digital audio, TCP/IP, HTTP, electronic mail, HTML, Windows, NT, NetWare, UNIX, Fast Ethernet, ATM, FDDI and much more. Written by a respected academician who is also an accomplished engineer, this textbook uses the author's wide practical experience in applying techniques and theory toward solving real engineering problems. It also includes an accompanying Web site that contains software source code and other

supplemental information **Interconnection Networks** Jose Duato, Sudhakar Yalamanchili, Lionel Ni, 2003 Foreword
 Foreword to the First Printing Preface Chapter 1 Introduction Chapter 2 Message Switching Layer Chapter 3 Deadlock
 Livelock and Starvation Chapter 4 Routing Algorithms Chapter 5 Collective Communication Support Chapter 6 Fault Tolerant
 Routing Chapter 7 Network Architectures Chapter 8 Messaging Layer Software Chapter 9 Performance Evaluation Appendix
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 Technology Michael Khader, William E. Barnes, 2000 Engineering computer science data communications and
 telecommunications professionals want to learn more about a specific area covered in the book or who want to get a broad
 and in depth understanding of telecommunications technology **Japanese Technical Periodical Index**, 1987 The
 British National Bibliography Arthur James Wells, 2002 *Data Communications*, 1985 **Proceedings of MELECON ...**
 , 1989 Symposium on Manufacturing Systems--Design, Integration, and Control George Chryssolouris, R. Von Turkovich, P.
 Francis, 1988 Conference on Communication Networks and Distributed Systems Modeling and Simulation (CNDS '97),
 January 12-15, 1997, Sheraton Crescent Hotel, Phoenix, Arizona Lionel M. Ni, Taieb F. Znati, 1997 *Documentation
 Abstracts*, 1992 *Computers in Education Journal*, 1994 *GLOBECOM Tokyo '87*, 1987 *Elements of Network
 Protocol Design* Mohamed G. Gouda, 1998 This book gives students and professionals alike both the understanding of
 fundamental principles and the practical guidance they need to develop successful protocol based networking solutions It
 provides Abstract Protocol notation AP a useful formal notation for specifying network protocols step by step guidance on
 designing all types of network protocols from basic routing and switching protocols to data compression and security
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