



**Data and Computer
Communications**

Eighth Edition

William Stallings

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Oliver C. Ibe



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Encyclopedia of Computer Science and Technology Harry Henderson,2009 Presents an illustrated A Z encyclopedia containing approximately 600 entries on computer and technology related topics *Data and Computer Communications* William Stallings,2007 Data and Computer Communications Eighth Edition offers a clear comprehensive and unified view of the entire fields of data communications networking and protocols William Stallings organizes this massive subject into small comprehensible elements building a complete survey of the state of the art one piece at a time Stallings has substantially revised this international best seller to reflect today s latest innovations from WiFi and 10 Gbps Ethernet to advanced congestion control and IP performance metrics BOOK JACKET **Multimedia Communications and Networking** Mario Marques da Silva,2012-03-14 The result of decades of research and international project experience Multimedia Communications and Networking provides authoritative insight into recent developments in multimedia digital communications and networking services and technologies Supplying you with the required foundation in these areas it illustrates the means that will allow for improved digital communications and networks The book starts with a review of the fundamental concepts requirements and constraints in networks and telecommunications It describes channel disturbances that can hinder system performance including noise attenuation distortion and interferences and provides transmission techniques for mitigating these limitations Analyzing both cable and wireless transmission mediums the book describes the network protocol architecture concept and includes coverage of twisted pairs coaxial and optical fiber cables wireless propagation satellite communications and terrestrial microwave systems Facilitating the understanding required to participate in the development of current and next generation networks and services this comprehensive reference Examines the range of network interconnections and WAN MAN technologies including synchronous optical networks SONET synchronous digital hierarchy SDH and third and next generation cellular systems 3G and 4G Describes local area network LAN theory and technology including data link layers and virtual LANs Explores network and transport layers such as addressing routing protocols and IPv4 and IPv6 algorithms Covers TCP IP services and applications Investigates different authentication and cryptographic systems including digital signature SSL TLS IPSEC and public key infrastructure Walking you through the planning design and development of multimedia telecommunications and networking systems the book provides a quick and easy way to develop and refine the skills required in the field It clearly explains the principles and corresponding techniques you need to know to implement network security The many examples and end of chapter questions also make it suitable for undergraduate and graduate level computer science and electrical engineering courses Cable and Wireless Networks Mário Marques da Silva,2018-09-03 Cable and Wireless Networks Theory and Practice presents a comprehensive approach to networking cable and wireless communications and networking security It describes the most important state of the art fundamentals and system details in the field as well as many key aspects concerning the

development and understanding of current and emergent services In this book the author gathers in a single volume current and emergent cable and wireless network services and technologies Unlike other books which cover each one of these topics independently without establishing their natural relationships this book allows students to quickly learn and improve their mastering of the covered topics with a deeper understanding of their interconnection It also collects in a single source the latest developments in the area typically only within reach of an active researcher Each chapter illustrates the theory of cable and wireless communications with relevant examples hands on exercises and review questions suitable for readers with a BSc degree or an MSc degree in computer science or electrical engineering This approach makes the book well suited for higher education students in courses such as networking telecommunications mobile communications and network security This is an excellent reference book for academic institutional and industrial professionals with technical responsibilities in planning design and development of networks telecommunications and security systems and mobile communications as well as for Cisco CCNA and CCNP exam preparation

Breakthrough Perspectives in Network and Data Communications Security, Design and Applications Bose, Indranil, 2008-12-31 Addresses key issues and offers expert viewpoints into the field of network and data communications Presents research articles that investigate the most significant issues in network and data communications

Fundamentals of Data Communication Networks Oliver C. Ibe, 2017-11-01 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 Business Data Communications William Stallings,2009 Business Data Communications 6 e covers the fundamentals of data communications networking distributed applications and network management and security Stallings presents these concepts in a way that relates specifically to the business environment and the concerns of business management and staff structuring his text around requirements ingredients and applications All of the material has been updated for the latest technologies and developments in the field including specifications of WiFi IEEE 802 11 wireless LANs including 802 11n IP performance metrics and service level agreements SLAs Gigabit Ethernet and 10 Gbps Ethernet standards New unified communications concepts expanded enhanced security material New online animations illustrate key functions and algorithms in OS design Appropriate for professionals interested in business data communications **The Handbook of Computer Networks, Key Concepts, Data Transmission, and Digital and Optical Networks** Hossein Bidgoli,2008 A complete and in depth introduction to computer networks and networking In this first volume of The Handbook of Computer Networks readers will get a complete overview of the key concepts of computers networks data transmission and digital and optical networks Providing a comprehensive examination of computer networks the book is designed for both undergraduate students and professionals working in a variety of computer network dependent industries With input from over 270 experts in the field the text offers an easy to follow progression through each topic and focuses on fields and technologies that have widespread application in the real world **Data and Computer Communications** William Stallings,1997 The physical layer details of the transmission media the main Internet protocols for e mail and WWW usage the latest security methods for data protection and transmission all these and more are covered in this very detailed handbook Data and Computer Communications William Walter Stallings,2007 **Internetworking** Colin Smythe,1995 Colin Smythe explains the concepts and technology of internetworking demonstrating through practical examples how to connect LANs to create a communications infrastructure This book will be ideal for network and systems managers who need to understand the complex issues around internetworking **Manorama Year Book** ,2000 **Computers, Communications, and Information** Sarah E. Hutchinson,Sarah Hutchinson Clifford,Stacey C. Sawyer,1998 Designed for the introduction to computers or computer literacy course found in the business or CIS department at two year and four year schools Mechanical Engineering ,1986 **Index of Conference Proceedings Received** British Library. Lending Division,1984 Encyclopedia of Physical Sciences and Engineering Information Sources Steven R. Wasserman,1989 **Index to American Reference Books Annual, 1990-1994** D Aviva Rothschild,1994-07-15 The annuals to which this is the index are cited in Sheehy and BCL3 This five year index gives access to 8771 reviews of references reviewed in ARBA volumes 16 through 20 American Reference Books Annual ARBA is an essential tool not only for libraries but for reference book publishers as well we at Book News

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