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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.

Thanks to inexpensive computers and data communications, the speed and volume of human communication are exponentially greater than they were even a quarter-century ago. Not since the advent of the telephone and telegraph in the nineteenth century has information technology changed daily life so radically. We are in the midst of what Gerald Brock calls a second information revolution. Brock traces the complex history of this revolution, from its roots in World War II through the bursting bubble of the Internet economy. As he explains, the revolution sprang from an interdependent series of technological advances, entrepreneurial innovations, and changes to public policy. Innovations in radar, computers, and electronic components for defense projects translated into rapid expansion in the private sector, but some opportunities were blocked by regulatory policies. The contentious political effort to accommodate new technology while protecting beneficiaries of the earlier regulated monopoly eventually resulted in a regulatory structure that facilitated the explosive growth in data communications. Brock synthesizes these complex factors into a readable economic history of the wholesale transformation of the way we exchange and process information. Table of Contents: Acknowledgments Abbreviations 1. Introduction The Promise of Regulation Conceptual Framework 2. The First Information Revolution The Development of Telegraph Services The Telephone and State Regulation Radio and Federal Regulation 3. Technological Origins of the Second Information Revolution, 1940-1950 Radar The Transistor Electronic Digital Computers 4. The SAGE Project I. THE SEPARATE WORLDS OF COMPUTERS AND COMMUNICATIONS, 1950-1968 5. The Early Semiconductor Industry The Creation of a Competitive Market Innovation and the Integrated Circuit Falling Prices, Rising Output 6. The Early Commercial Computer Industry Vacuum-Tube and Transistor Computers The System/360 and IBM Dominance Alternatives to IBM Computers 7. The Regulated Monopoly Telephone Industry Antitrust and the 1956 Consent Decree Microwave Technology and Potential Long Distance Competition Central Office Switches Terminal Equipment II. BOUNDARY DISPUTES AND LIMITED COMPETITION, 1969-1984 8. Data Communications Packet-Switching and the Arpanet Network Protocols and Interconnection Local Area Networks and Ethernet 9. From Mainframes to Microprocessors Intel and the Microprocessor Personal Computers and Workstations 10. The Computer-Communications Boundary Computer-Assisted Messages: Communications or Data Processing? Smart Terminals: Teletypewriters or Computers? Interconnection of Customer-Owned Equipment with the Telephone Network The Deregulation of Terminal Equipment The Deregulation of Enhanced Services 11. Fringe Competition in Long Distance Telephone Service Competition in Specialized Services Competition in Switched Services The Transition to Optical Fiber 12. Divestiture and Access Charges The Divestiture Access Charges The Enhanced Service Provider Exemption III. INTERCONNECTED COMPETITION AND INTEGRATED SERVICES, 1985-2002 13. Mobile Telephones and Spectrum Reform Early Land Mobile Telephones Cellular Spectrum Allocation Cellular Licensing Problems Spectrum Institutional Reform PCS and Auctions 14. Local Competition and the Telecommunications Act of 1996 Competitive Access Providers Interconnection: CAP to CLEC The

Telecommunications Act of 1996 Implementation of the Telecommunications Act of 1996 15. The Internet and the World Wide Web The Commercial Internet and Backbone Interconnection The Development of the Web The New Economy Financial Boom and Bust Real Growth in Telecommunication and Price Benefits 16. Conclusion Technological Progress and Policy Evolution The Process of Institutional Change Final Comment References Index Reviews of this book: The Second Information Revolution is important reading for anyone who needs to understand the functioning of American telecommunications, either to be able to analyse today's financial markets or to understand or influence public policy in this area. --Wendy M. Grossman, Times Higher Education Supplement [UK] Reviews of this book: Brock traces a phenomenon he refers to as the 'second information revolution.' According to Brock, there have been two times in history when information technology has dramatically changed daily life. The first 'information revolution' occurred with the advent of the telephone and telegraph, which made communication less expensive and more readily available. The second information revolution is currently in progress...A concise, thorough, and well-written history of the transformation in exchanging and processing of information. --K. A. Coombs, Choice

Appropriate for a first course on computer networking, this textbook describes the architecture and function of the application, transport, network, and link layers of the internet protocol stack, then examines audio and video networking applications, the underpinnings of encryption and network security, and the key issues of network management. Th

Reference Data for Engineers is the most respected, reliable, and indispensable reference tool for technical professionals around the globe. Written by professionals for professionals, this book is a complete reference for engineers, covering a broad range of topics. It is the combined effort of 96 engineers, scientists, educators, and other recognized specialists in the fields of electronics, radio, computer, and communications technology. By providing an abundance of information on essential, need-to-know topics without heavy emphasis on complicated mathematics, Reference Data for Engineers is an absolute "must-have" for every engineer who requires comprehensive electrical, electronics, and communications data at his or her fingertips. Featured in the Ninth Edition is updated coverage on intellectual property and patents, probability and design, antennas, power electronics, rectifiers, power supplies, and properties of materials. Useful information on units, constants and conversion factors, active filter design, antennas, integrated circuits, surface acoustic wave design, and digital signal processing is also included. The Ninth Edition also offers new knowledge in the fields of satellite technology, space communication, microwave science, telecommunication, global positioning systems, frequency data, and radar. \* Widely acclaimed as the most practical reference ever published for a wide range of electronics and computer professionals, from technicians through post-graduate engineers. \* Provides a great way to learn or review the basics of various technologies, with a minimum of tables, equations, and other heavy math.

Business Data Communications and Security covers the fundamentals of data communications, networking, distributed applications, and network management and security. These concepts are presented in a way that relates specifically to the business environment and the concerns of business management and staff. While making liberal use of real-world case studies and charts and graphs to provide a business perspective, the book also provides the student with a solid grasp of the technical foundation of business data communications. The diverse set of projects and student exercises enables the instructor to use the book as a component in a rich and varied learning experience and to tailor a course plan to meet the specific needs of the instructor and students. The Seventh edition features a new co-author, Dr. Thomas L. Case, Professor and Chair of the Department of Information Systems at Georgia Southern University. New coverage of security-related issues is included in relevant places throughout the book to meet the needs of the IT/IS schools using this book and the growing emphasis on network security. Additionally, the Seventh edition now aligns with the ACM/AIS IS 2010 curriculum model.

The protocols and standards for networking are numerous and complex. Multivendor internetworking, crucial to present day users, requires a grasp of these protocols and standards. Data and Computer Communications: Networking and Internetworking, a comprehensive text/reference, brings clarity to all of the complex issues involved in networking activity, providing excellent instruction for students and an indispensable reference for practitioners. This systematic work answers a vast array of questions about overall network architecture, design, protocols, and deployment issues. It offers a practical, thorough treatment of the applied concepts of data and computer communication systems, including signaling basics, transmission of digital signals, and layered architecture. The book features in-depth discussions of integrated digital networks, integrated services digital networks, and high-speed networks, including currently evolving technologies, such as ATM switching, and their applications in multimedia technology. It also presents the state-of-the-art in Internet technology, its services, and implementations. The balance of old and new networking technologies presents an appealing set of topics for both undergraduate students and computer and networking professionals. This book presents all seven layers of OSI-based networks in great detail, covering services, functions, design issues, interfacing, and protocols. With its introduction to the basic concepts and practical aspects of the field, Data and Computer Communications: Networking and Internetworking helps you keep up with the rapidly growing and dominating computer networking technology.

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