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Focusing on the practical business concerns of wireless technology, this book guides consumers and managers through wireless local area networking concepts, including applications, security, and environmental issues. Thorough coverage includes a complete introduction to the technology, details on the products available, case studies detailing how companies have used wireless communications, and more. A guide to the design, procurement, installation and testing procedures for local area networks (LANs) using copper and optical fibre cable technology. It describes the theory as well as practical issues involved in the complexities of today's office-based LANs. It also compares international, European, and US LAN and premises cabling standards. A fast-growing area in the communications industry is the internetworking of an ever-increasing proliferation of computers, particularly via local area networks (LANs). The LAN is a resource-sharing data communications network being used by many offices to interchange information such as electronic mail, word processing, and files among computers and other devices. This unique book shows the user how to establish the performance characteristics of a LAN before putting it to use in a particular type of situation. Simulation of Local Area Networks consists of eight chapters, each with its own extensive list of references. The first chapter provides a brief review of local area networks, and the second chapter gives the analytical models of popular LANs-token-passing bus and ring networks, CSMA/CD LANs, and star networks. Chapter 3 covers general principles of simulation, and Chapter 4 discusses fundamental concepts in probability and

statistics relating to simulation modeling. Materials in Chapters 3 and 4 are specifically applied in developing simulation models on token-passing LANs, CSMA/CD LANs, and star LANs in Chapters 5 through 7. The computer code in Chapters 5, 6, and 7 is divided into segments, and a detailed explanation of each segment is provided. The last chapter reviews special-purpose languages such as GPSS, SIMSCRIPT, GASP, SIMULA, SLAM, and RESQ. Helpful criteria for language selection are included. The entire code is put together in the appendixes. This book has two major advantages over existing texts. First, it uses C, a well-developed general-purpose language that is familiar to most analysts. Second, the text specifically applies the simulation principles to local area networks. No other book available shows the systems analyst how to evaluate the performance of existing or proposed systems under different kinds of conditions. Like its widely acclaimed predecessor, this new edition makes the essentials of LAN technology accessible to everyone ... no matter what your level of expertise. From networking basics to cutting-edge advances, the book gradually builds understanding in a relaxed and intuitive fashion. Each individual chapter delivers both plainspoken explanations of its topic and - for the more experienced reader - plenty of technical detail. The new edition is chock-full of the latest information on such areas, as: The most popular data links, including Ethernet, Token Ring, and FDDI ... plus a look at the new 100Base-T standard and full duplex for Ethernet; Novell NetWare client/server computing spotlighting directory services, NLSF, and burst mode; how frame switches operate, and the capabilities of Virtual LANs; and Ethernet and Token Ring switching for high-speed LANs, advanced concentrators, and bridge extensions. In addition, the Second Edition now comes bundled with the NetIQ TestTaker software package. This unique knowledge enhancement tool makes learning about LANs even more effective and enjoyable by showing you what you know ... and precisely where to find out what you don't know. As desktop computers become commonplace apparatus for business managers, businesses are finding the need to communicate and share information electronically, and local area networks (LANs) are the most effective way to do it. This book offers a complete and authoritative explanation of the technical, organizational, and practical aspects of LANs in a distributed networking and computing environment, with clear descriptions of the various LAN technologies currently available and practical advice on choosing the most efficient and cost-effective system. Special attention is paid to the software environment of LANs, something few other books do. Also shows how to design and manage a microcomputer-based network, provides complete LAN standards, and gives comprehensive descriptions on how to use the system and take advantage of all its capabilities. Numerous tables and diagrams, a glossary, and a bibliography are included in this valuable guide.

Protecting Information on Local Area Networks presents the various types of networks and explains why they are being expanded at such a rapid pace. This book considers how management can gain control of the valuable network-services information resources generally available. Organized into three parts encompassing seven chapters, this book begins with an overview of the various networks and their operations. This text then discusses the appropriate management actions to ensure some control over the use of networks and the business information resource. Other chapters consider the management rationale for network information security and explain the development of a company information network security policy. This book discusses as well security or network-connected personal computers. The final chapter deals with a number of major vulnerabilities of information when communicated or processed on network-connected personal computers. This book is a valuable resource for research scientists, technical security specialists, information systems specialists, and systems administrators. Learn how to install, manage, and maximize business LANs! Fully updated to reflect the latest developments in the field, this comprehensive, business-oriented guide presents all the information you need to successfully implement and trouble-shoot LAN-based client/server information systems. Inside, you'll find in-depth, up-to-the-minute coverage of the theory, concepts, technology, installation, and management of business LANs. Most importantly, this new Second Edition underscores solutions to LAN challenges faced in today's business environments. Business cases in every chapter will help you develop effective analytical and design skills. Working models, such as the OSI Model, Top Down Model, and Client/Server Architecture Model, provide you with an effective framework for approaching problems and finding solutions. And an accompanying CD-ROM includes a wealth of background material on client/server information systems. This new edition now features coverage of such cutting-edge LAN developments and technologies as: * Gigabit ethernet and full duplex net architectures * CAT 5 Level 5, 6, and 7 * NIC configuration * LAN character and line encoding schemes * SNA/LAN integration and Layer 3 and Layer 4 switching * Enterprise remote access servers * Bandwidth management * Cryptographic accelerators and security architecture development methodology * and more The local area network (LAN) has become a technology that everyone uses but few understand. If you're faced with using or managing a network, make sure you've got Understanding Local Area Networks, Fifth Edition. This Sams favorite, completely revised for its fifth edition, provides a complete understanding of the theory behind the many network forms to data transmission methods. Learn operating principles, hardware configurations, software options, and management issues. This book also helps you gain an understanding of how to connect LANs to each

other and to larger computers. Get expert advice on how to choose and support a LAN, and discover why client/server computing changes the way you use LANs. And if you're a network administrator, this book dispenses the knowledge you need to decide if a LAN is right for your office. Quick quizzes and a complete glossary keep you on track as you come up to network speed. Providing a detailed introduction to data communications for any computing-science course, this text is designed particularly for students on BTED HNC/D courses in computing, and for undergraduate degree modules in LANs. It is also suitable for professionals and computer managers who are responsible for networking and need a technical awareness. No prior knowledge is assumed, and the concepts and terminology are introduced at the beginning, before understanding is developed on the knowledge gained. Today's enterprise cannot effectively function without a network, and today's enterprise network is almost always based on LAN technology. In a few short years, LANs have become an essential element of today's business environment. This time in the spotlight, while well deserved, has not come without a price. Businesses now insist that LANs deliver vast and ever-increasing quantities of business-critical information and that they do it efficiently, flawlessly, without fail, and most of all, securely. Today's network managers must consistently deliver this level of performance, and must do so while keeping up with ever changing, ever increasing demands without missing a beat. At the same time, today's IT managers must deliver business-critical information systems in an environment that has undergone radical paradigm shifts in such widely varied fields as computer architecture, operating systems, application development, and security. The Local Area Networks Handbook focuses on this collective environment, in which networking and information technology work together to create LAN-based enterprise networks. Topics have been selected and organized with this in mind, providing both depth and breadth of coverage. The handbook will provide you not only an understanding of how LANs work and how to go about selecting and implementing LAN products, but also of how to leverage LAN capabilities for the benefit of your enterprise. What is a computer network and how does it work? How will your business benefit from a network? What type of network will best serve your needs? Introduction to Local Area Networks helps you answer these and many other critical questions. Using non-technical terms, it explores the fundamentals of computer networking, focusing on how a network can meet common business needs. Learn how a network can enable you to share data safely and effectively, support remote access by off-site personnel, and ensure that vital business information is accurate and up-to-date. With this book, you'll be able to learn how networks work, choose suitable network hardware, choose the right network operating system, choose applications and groupware, decide whether to build an Intranet, and hire and work with a network consultant. A guide to computer networks cover such topics as hubs and switches, VLANs, trunking, routing and routers, tunnels, redundancy, Cisco Nexus, T1, and firewalls. Today's enterprise cannot effectively function without a network, and today's enterprise network is almost always based on

LAN technology. In a few short years, LANs have become an essential element of today's business environment. This time in the spotlight, while well deserved, has not come without a price. Businesses now insist that LANs deliver vast and ever-increasing quantities of business-critical information and that they do it efficiently, flawlessly, without fail, and most of all, securely. Today's network managers must consistently deliver this level of performance, and must do so while keeping up with ever changing, ever increasing demands without missing a beat. At the same time, today's IT managers must deliver business-critical information systems in an environment that has undergone radical paradigm shifts in such widely varied fields as computer architecture, operating systems, application development, and security. The Local Area Networks Handbook focuses on this collective environment, in which networking and information technology work together to create LAN-based enterprise networks. Topics have been selected and organized with this in mind, providing both depth and breadth of coverage. The handbook will provide you not only an understanding of how LANs work and how to go about selecting and implementing LAN products, but also of how to leverage LAN capabilities for the benefit of your enterprise. These days, networks and information systems are more than just technological service segments of a company. They are vital variables in the business equation. This book takes a business-first approach to networks, focusing on how to analyze, implement and manage local area networks. Drawing on extensive case studies, it provides a thorough examination of the business application, data, network, and technology issues surrounding the successful implementation of local area network-based client/server systems. It also provides working models readers can use to organize their own systems. This book has been written with the support of Huawei's large accumulation of technical knowledge and experience in the WLAN field, as well as its understanding of customer service requirements. First, the book covers service challenges facing enterprise wireless networks, along with detailing the latest evolution of Wi-Fi standards, air interface performance, and methods for improving user experience in enterprise scenarios. Furthermore, it illustrates typical networking, planning, and scenario-specific design for enterprise WLANs, and provides readers with a comprehensive understanding of enterprise WLAN planning, design, and technical implementation, as well as suggestions for deployment. This is a practical and easy-to-understand guide to WLAN design, and is written for WLAN technical support and planning engineers, network administrators, and enthusiasts of network technology. Authors Rihai Wu is Chief Architect of Huawei's campus network WLAN solution with 16 years of experience in wireless communications product design and a wealth of expertise in network design and product development. He previously served as a designer and developer of products for Wideband Code Division Multiple Access (WCDMA), LTE indoor small cells, and WLAN. Xun Yang is a WLAN standard expert from Huawei. He has nine years of experience in formulating WLAN standards, and previously served as 802.11ac Secretary, 802.11ah PHY Ad-hoc Co-chair, and 802.11ax MU Ad Hoc

Sub Group Co-chair. Mr. Yang oversees technical research, the promotion of standards, and industrialization in the WLAN field, and has filed more than 100 patents. Xia Zhou is a documentation engineer of Huawei's campus network WLAN solution. She has 10 years of experience in creating documents for campus network products. Ms. Zhou was previously in charge of writing manuals for Huawei data center switches, WLAN products, and campus network solutions. She is also the author of Campus Network Solution Deployment Guide and was a co-sponsor of technical sessions such as WLAN from Basics to Proficiency. Yibo Wang is a documentation engineer of Huawei's campus network WLAN solution. He has nine years of experience in creating documents for campus network products. Mr. Wang was previously in charge of writing manuals for Huawei switches, WLAN products, and routers. He was also a co-sponsor of technical sessions such as WLAN from Basics to Proficiency and HCIA-WLAN certification training courses. Handbook of Wireless Local Area Networks: Applications, Technology, Security, and Standards captures the current state of wireless LANs, and serves as the single comprehensive reference on the subject. Addressing challenges related to the further development of WLAN technology, the Handbook covers the entire spectrum of topics from basic concepts to Concepts, capabilities, comparisons, evaluation, technical and non-technical characteristics of LAN, local non-switched networks, local circuit switched networks, local message and packet switched networks, Cambridge Ring, Ethernet, ring products, non-ring products, transmission media, baseband and broadband systems. Novices and experienced users can utilize this guide to learn how to share data and programs, and efficiently combine a variety of expensive hardware--such as CAD plotters and quality printers. Written by successful author and experienced teacher, David A. Stamper, Local Area Networks, 2/e is completely updated with all new problems and exercises. This text provides an up-to-date introduction to local Area Networks covering the selection, management, and interconnection of various networks. This text is ideal for LAN end-users, administrators, and managers. CD-ROM contains: Introductory version of VPIserviceMaker_IP program -- User manual for program. How to use LANs to help your company grow A vital component of today's business, Local Area Networks (LANs) allow organizations to link their computers together for maximum work sharing, collaboration among geographically disparate teams, and other essential business functions. This book helps system administrators and IT professionals set up LANs and Intranets in a way that will contribute to their company's growth and success. Beginning with the theoretical foundation for LAN operation and design, it covers the applicable data communications principles, then goes on to explore both LAN hardware and infrastructure design, network operating systems, LAN management and security. The book also gives a practical introduction to the world's most popular network operating systems--Windows 2000, Novell NetWare, and Linux. Finally, the book takes an in-depth look at business and management issues, with special emphasis given to the impact of Intranets on business goals. Performance Analysis of

Telecommunications and Local Area Networks presents information on teletraffic engineering, with emphasis on modeling techniques, queuing theory, and performance analysis for the public-switched telephone network and computer communication networks. Coverage includes twisted pair cables and coaxial cables, subscriber loops, multistage network switching, modeling techniques for traffic flow and service time, random access networks, and much more. End-of-chapter problems with solutions are also included. Performance Analysis of Telecommunications and Local Area Networks is also a useful reference for practicing engineers but is intended as a textbook in advanced-level courses. This concise book provides an objective introduction to local area networks - how they work, what they do, and how you can benefit from them. It outlines the pros and cons of the most common configurations so you can evaluate them in light of your own needs. You'll also learn about network software, with special emphasis on the ISO layered model of communications protocols. Updated to reflect significant developments in computer networking, this reference continues its reputation as the premier working guide to local area, wide area, and linked local area networks with local, national, and international reach. Beginning with a broad overview of computer networks, it summarizes the many available systems, their differences and similarities, and their place in the automated office. Also covers network systems and services and provides some practical insights into the impact of computer networking, all aided by step-by-step instructions and up-to-the-minute applications in a variety of fields and technologies. Focusing on the latest LAN technology and its impact on achieving corporate goals, this new edition of the popular reference provides managers with a solid grounding in LAN technology and an up-to-date picture of this fast evolving field. Local Area Networks (LANs) have become an integral part of communication in today's world. The establishments that use LAN applications include businesses, educational facilities, hospitals, stock exchanges and warehouses. This book offers reader-friendly, comprehensive coverage of LAN technologies, teaching the reader how to use them in real-world applications. The text is ideal for students both in the classroom and later as a reference. Forouzan motivates topics by practical applications, and his liberal use of figures makes difficult technical topics easier to grasp by providing an intuitive, visual representation of concepts. Extensive practice sets are also provided at the end of each chapter, which reinforce what the student has learned. The book is also up-to-date, presenting in-depth material on such current topics as Gigabit Ethernet, ATM LAN, Wireless LAN, VPN and VLAN. Offers readers an authoritative, in-depth exploration of the local area network. This book incorporates the latest technology, protocols, techniques, and hardware and software employed in computer networking. This new edition is completely revised to cover the many new developments in the technology and applications of local area networks (LANs). It includes new sections on: . * Client-server methodology. * Local area network security. * LAN standards, particularly in relation to open systems interconnection. The book will provide an excellent introduction for students or for professionals

moving into LANs for the first time Keith C. Wright provides a study of the addition of workstations and local area networks to libraries. In addition to situating them within library functions, he examines them from the human side. Workstations and Local Area Networks for Libraries addresses the effect on organization, staffing and services when changes are made in communication systems. Local Area Networks: An Introduction to the Technology, Second Edition is intended for those who want to become more familiar with local area networks (LANs) without facing the challenge of a 400-page text. The goals of the book are to give prospective LAN users or purchasers familiarity with the concepts involved and to provide a head start for reading more detailed texts. Since LAN product offerings are constantly changing, a deliberate attempt has been made to emphasize the general principles, operating characteristics, and problem areas of LANs, rather than cite specific product examples. Modeling and Analysis of Local Area Networks fills a void in the array of books on Local Area Networks (LANs) in that it reviews the state of LAN technology from a hardware and software perspective, develops a set of metrics that can be used to evaluate LANs for end applications, and investigates methodologies for evaluating LANs from these perspectives. The book discusses LAN evaluation techniques utilizing analysis, operational analysis, hardware testbeds, and simulations. Simulations will be stressed in greater detail and a tool available for evaluating LANs performance (called MALAN) is presented and the details of its structure developed.

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