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| Nota di contenuto | Networking Self-Teaching Guide: OSI, TCP/IP, LANs, MANs, WANs, Implementation, Management, and Maintenance; About the Authors; Credits; Acknowledgments; Contents; Introduction; Part I: Networking Nuts and Bolts; Chapter 1: Introduction to Networking; 1.1 Networking: A Brief Introduction; 1.2 History of Networking; 1.3 Standards and Standards Organizations; 1.4 An Introduction to the OSI Reference Model; 1.5 TCP/IP, Please (and Don't Be Stingy with the IP); 1.6 Chapter Exercises; 1.7 Pop Quiz Answers; Chapter 2: LANs, MANs, and WANs; 2.1 Local Area Networks; 2.2 Metropolitan Area Networks<br>2.3 Wide Area Networks 2.4 Chapter Exercises; 2.5 Pop Quiz Answers; Chapter 3: Network Hardware and Transmission Media; 3.1 Stuff You Just Need to Know; 3.2 Transmission Media; 3.3 Network Hardware; 3.4 Chapter Exercises; 3.5 Pop Quiz Answers; Chapter 4: Operating Systems and Networking Software; 4.1 Computer Operating System Basics; 4.2 Network Operating System Basics; 4.3 Other Operating Systems; 4.4 Chapter Exercises; 4.5 Pop Quiz Answers; Chapter 5: The TCP/IP Protocol Suite; 5.1 The TCP/IP Layers; 5.2 Popular TCP/IP |

Protocols; 5.3 End of Chapter Hodgepodge; 5.4 Chapter Exercises
5.5 Pop Quiz Answers Chapter 6: Ethernet Concepts; 6.1 The Beginning of Ethernet Technology; 6.2 Ethernet Components; 6.3 Ethernet and IEEE 802.3's Relationship to the OSI Model; 6.4 Ethernet Frame Format; 6.5 Traffic Optimization; 6.6 Chapter Exercises; 6.7 Pop Quiz Answers; Chapter 7: Not to Be Forgotten; 7.1 Can't Get Enough of Those LAN Technologies; 7.2 As If You Haven't Had Enough of These Sweet Protocols; 7.3 Chapter Exercises; 7.4 Pop Quiz Answers; Part II: The OSI Layers; Chapter 8: The Upper Layers; 8.1 Background; 8.2 The TCP/IP Model; 8.3 OSI Application Layer
8.4 OSI Presentation Layer 8.5 OSI Session Layer; 8.6 Chapter Exercises; 8.7 Pop Quiz Answers; Chapter 9: The Transport Layer; 9.1 The Terms and Conditions of Chapter 9; 9.2 Transport Layer Operations; 9.3 Transport Layer Protocols; 9.4 The Meaning of Control; 9.5 Chapter Exercises; 9.6 Pop Quiz Answers; Chapter 10: The Network Layer; 10.1 Network Connection Types; 10.2 TCP/IP Network Layer Protocols; 10.3 Chapter Exercises; 10.4 Pop Quiz Answers; Chapter 11: The Data Link Layer; 11.1 Concerns of the LAN; 11.2 Accessing the Medium; 11.3 Meet the Sublayers
11.4 The "ings" - Casting, Detecting, and Addressing 11.5 "Knode" the LAN; 11.6 Chapter Exercises; 11.7 Pop Quiz Answers; Part III: Network Design and Implementation; Chapter 12: Design Methodologies; 12.1 Your Task Is to Design a Network; 12.2 Let's Start Planning; 12.3 A Hierarchical Design Model; 12.4 5-4-3-2-1, Speed Is Not the Big Concern; 12.5 Making Determinations; 12.6 Network Implementation; 12.7 Chapter Exercises; 12.8 Pop Quiz Answers; Chapter 13: Implementation; 13.1 Planning; 13.2 Network Supporting Infrastructure; 13.3 Budgeting; 13.4 Staging; 13.5 Rollout; 13.6 Verification
13.7 Documentation

Sommario/riassunto

IT professionals who want to move into the networking side in a corporate or enterprise setting will find the detailed content they need to get up to speed on the very latest networking technologies; plus, current networking professionals will find this a valuable and up-to-date resource. This hands-on guide is designed so that you can select, design, and implement an actual network using the tutorials and steps in the book. Coverage includes an overview of networking technologies, including the hardware, software, transmission media, and data transfer processes; in-depth coverage of OSI and T