

Wiley - Networking Self Teaching Guide



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 TCP/IP reference models; operating systems and other systems software used in today's networks; LANs, WANS, and MANs, including the components and standards that operate within each type of area network; and more.

Part I: Networking Nuts and Bolts.

1. Introduction to Networking.
2. LANs, WANs, and MANs.
3. Network Hardware and Transmission Media.
4. Operating Systems and Networking Software.
5. The TCP/IP Protocol Suite.
6. Ethernet Concepts.
7. Not To Be Forgotten.

Part II: The OSI Layers.

8. The Upper Layers.
9. The Transport Layer.
10. The Network Layer.
11. The Data Link Layer.

Part III: Network Design and Implementation.

12. Design Methodologies.

13. Implementation.

Part IV: Managing and Maintaining the Network.

14. Network Security.

15. Network Management.

16. Troubleshooting.

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