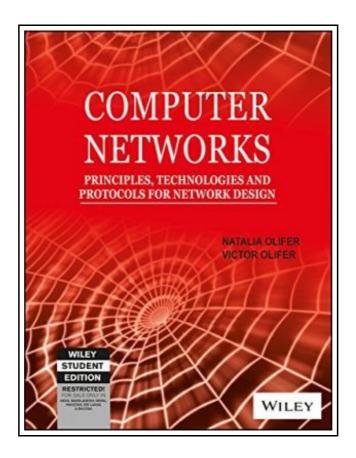
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Wiley India Pvt. Ltd, 2006. Softcover. Book Condition: New. A computer network is made up of a group of two or more connected machines. Many types of networks exist, but the most common types of networks are Local-Area Networks (LANs), and Wide-Area Networks (WANs). In a LAN, computers are connected together within a local area (for example, an office or home). In a WAN, computers are farther apart and are connected via telephone/communication lines, radio waves, or other means of connection. Complex modern computer networks are made up of layers, architectures and protocols so that a clear picture of the whole is difficult to build up. Crucial components of the network need to be looked at not only in isolation, but also as part of a heterogeneous system; each part operating jointly with various different networking technologies. The basic problems in computer networking include error detection, medium access, routing, flow and congestion control, and end-to-end transport. Within each problem area, there are a range of basic solutions within which are the agreed current best practices. Preface Part I Networking Basics Evolution of Computer Networks General Principles of Network Design Packet and Circuit Switching Network Architecture and Standardization Examples of Networks Network Characteristics Methods of Ensuring Quality of Service Part II Physical Layer Technologies Transmission Links Data Encoding and Multiplexing Wireless Transmission Transmission Networks Part III Local Area Networks Ethernet High-Speed Ethernet Shared Media LANs Switched LAN Basics Advanced Features of Switched LANs Part IV TCP/IP Internet-working Addressing in TCP/IP Networks Internet Protocol Core Protocols of the TCP/IP Stack Advanced Features of IP Routers Part V Wide-Area Networks Virtual Circuit WAN IP WANs Remote Access Secure Transport Services Summary Review questions Problems Conclusion References and recommended reading Index Printed Pages: 1000.

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