



# Top-Down Network Design

*Priscilla Oppenheimer*

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## **Top-Down Network Design** Priscilla Oppenheimer

A systems analysis approach to enterprise network design

- Master techniques for checking the health of an existing network to develop a baseline for measuring performance of a new network design
- Explore solutions for meeting QoS requirements, including ATM traffic management, IETF controlled-load and guaranteed services, IP multicast, and advanced switching, queuing, and routing algorithms
- Develop network designs that provide the high bandwidth and low delay required for real-time applications such as multimedia, distance learning, and videoconferencing
- Identify the advantages and disadvantages of various switching and routing protocols, including transparent bridging, source-route switching, Inter-Switch Link (ISL), IGRP, Enhanced IGRP, OSPF, and BGP4
- Effectively incorporate new technologies into a network design, including cable modems, DSL, Gigabit Ethernet, and VPNs

*Top-Down Network Design* is a practical and comprehensive guide to designing enterprise networks that are reliable, secure, and manageable. Using illustrations and real-world examples, it teaches a systematic method for network design that can be applied to campus LANs, remote-access networks, WAN links, and large-scale internetworks.

You will learn to analyze business and technical requirements, examine traffic flow and QoS requirements, and select protocols and technologies based on performance goals. You will also develop an understanding of network performance factors such as network utilization, throughput, accuracy, efficiency, delay, and jitter. Several charts and job aids will help you apply a top-down approach to network design.

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