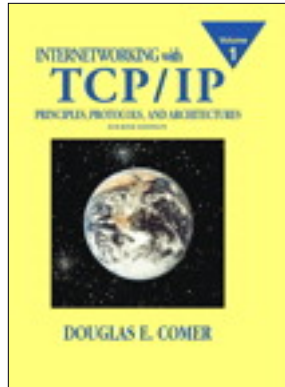


# Internetworking with TCP/IP Vol.1: Principles, Protocols, and Architecture, 4/e



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## Summary

**For junior-to-graduate level courses in Computer Networks, Data Networks, Network Protocols, and Internetworking.**

**The all-time best-selling TCP/IP book by leading author Doug Comer, Volume I provides a broad, conceptual introduction to the TCP/IP internetworking protocols and the connected TCP/IP internet. Comer**

technologies are covered. It reviews network hardware, including wide area and local area technologies.

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## Features

- **NEW**—Updated information throughout text.
  - Offers students highly accurate, state-of-the-art new material that describes technical advances and changes.
- **NEW**—Chapter 19, *Mobile IP*.
  - Describes the technology that allows a computer to move from one network to another without changing its IP address.
- **NEW**—Chapter 20, *Private Network Interconnection (NAT, VPN)*.
  - Teaches students about two key technologies used to interconnect private intranets and the global Internet.
- **NEW**—Chapter 28, *Applications: World Wide Web (HTTP)*.
  - Examines the World Wide Web and the HTML and HTTP protocols that form its basis.
- **NEW**—Chapter 29, *Applications: Voice and Video Over IP (RTP)*.
  - Examines the RTP protocol that allows a receiver to coordinate and play real-time data such as voice and video as well as the RSVP and COPS protocols that can be used to provide resource information.
- **NEW**—Routing Coverage updated to use BGP as the primary example.
  - Revised descriptions of protocols such as RIP, IGMP, SNMP, and IPv6 incorporates new versions and recent changes.
- **NEW**—Important updates of IP coverage. Includes up-to-date discussions of Internet Security and Firewalls, Design with IPSEC, the latest IPv6 features, and IP Routing.
- Explanation of TCP is provided.
  - Offers students discussion of TCP including reliability, acknowledgements, flow control, and sliding windows.
- Description of socket interface.
  - Explains for students the socket interface that applications use to access TCP/IP protocols.
- Discussion of routing architectures.
  - Elaborates on the routing architectures used for large and small internets.
- Examination of Internet application services.
  - Provides students with information on services such as domain name system (DNS), electronic mail (SMTP, MIME),

file transfer and access (FTP, TFTP, NFS), remote login (TELNET, rlogin), and network management (SNMP, MIB, ANS.I).

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