

Reading guide

Below is a guide to the course book, "Internetworking with TCP/IP" by Douglas E. Comer, fifth edition.

Chapter	How to read
1. Introduction and overview	1
2. Review of underlying network technologies	1
3. Internetworking concept and architecture model	1
4. Classful Internet addresses	1
5. Mapping internet addresses to physical addresses	1
6. Internet protocol: connectionless datagram delivery	1
7. Internet protocol: forwarding IP datagrams	3
8. Internet protocol: error and control messages (ICMP)	2
9. Classless and subnet address extensions (CIDR)	3
10. Protocol layering	1
11. User datagram protocol (UDP)	3
12. Reliable stream transport service (TCP)	3
13. Routing architecture: cores, peers and algorithms	3
14. Routing between peers	3
15. Routing within an autonomous system (RIP, OSPF)	3
16. Internet multicasting	3
17. IP switching and MPLS	0
18. Mobile IP	3
19. Private network interconnection (NAT, VPN)	2
20. Client-server model of interaction	3
21. The socket interface	2
22. Bootstrap and autoconfiguration (DHCP)	2
23. The domain name system (DNS)	3
24. Remote login and desktop (TELNET, SSH)	0
25. File transfer and access (FTP, TFTP, NFS)	2
26. Electronic mail (SMTP, POP, IMAP, MIME)	0
27. World wide web (HTTP)	2
28. Voice and video over IP (RTP, RSVP, QoS)	3
29. Network management (SNMP)	0
30. Internet security and firewall design (IPsec, SSL)	0
31. A next generation IP (IPv6)	3

A guide to the "How to read" column in the table:

0. This chapter is not a part of the course
1. You are supposed to know the contents of this chapter from earlier courses, read it if you need a refresher
2. Read this chapter to get an overview, but do not learn any details
3. Read this chapter carefully and pay attention to the details