

Introduction to Data Networking

Kurose and Ross: Computer Networking: A Top Down Approach

- **Chapter 1:** Overview and general principles
 - Protocol stack
 - Sharing
 - Statistic multiplexing
 - Packet switching
 - Circuit switching
 - Performance of packet switching networks
- **Chapter 2:** Application layer
 - TCP and UDP, multiplexing and ports
 - Applications
 - http, ftp, email, DNS, P2P, DHT
- **Chapter 3:** Transport layer
 - Tools for reliable transport
 - TCP
- **Chapter 4:** Network layer
 - IP and IPv6
 - NAT
 - Routing
 - Intra-network routing
 - Inter-network routing
- **Chapter 5:** Datalink and MAC layer
 - Multiple access
 - ARP
 - Ethernet
 - Switches and hubs
 - Link layer routing