

## Chapter 6

6.1 The Transport Service, Services Provided to the Upper Layers, Transport Service Primitives, A simple connection management scheme, Berkeley Sockets, An Example of Socket Programming: An Internet File Server

6.2 Elements of Transport Protocols, Addressing, Error Control and Flow Control, Multiplexing, Crash Recovery

6.3 Congestion Control, Desirable Bandwidth Allocation: Desirable Bandwidth Allocation, Max-Min Fairness, Convergence, Regulating the Sending Rate

6.4 Introduction to UDP, UDP header, IPv4 Pseudo header, Remote Procedure Call, Real-Time Transport Protocols

6.5 The Internet Transport Protocols: TCP, Wellknown ports, The TCP Service Model, The TCP Segment Header, TCP Connection Establishment, TCP Connection Management Modeling

6.6 The Future of TCP

6.7 Performance Problems in Computer Networks, Network Performance Measurement, Measuring Quality of Experience