

Computer Networks

By V.S.Bagad, I.A.Dhotre



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Introduction to Computer Network and Internet What is internet? Network edge, Network core, Protocol layers and services model, Network standardization. Introduction to application layer services, DNS, HTTP, FTP, SMTP, DHCP, TELNET. Transport Layer Transport services, Connection management, UDP, TCP, Socket programming(TCP and UDP), TCP Flow control, TCP congestion control. Quality of Service and Traffic Management Introduction to quality of services, Scheduling, Congestion control, Differentiated services, Integrated services, RSVP. Internetworking Network Layer design issues, IPv4, IPv6, ARP, RARP, ICMP(v4 and v6) Routing Principles Introduction to IP routing, Classification of routing algorithms, Distance vector, Link state, Hierarchical, Adhoc net, MACA, MACAW. Routing protocols-RIP, OSPF, BGP, IGRP. Lower Level Protocols and Implementation HDLC, PPP protocols, Internetworking devices like hubs, Switches, Routers, Bridges. Link virtualization (ATM, MPLS)



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