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Chapter 1 Network Fundamentals

1.1 Introduction to Networks.
1.2 Local Area Network (LAN).
1.3 Wide Area Network (WAN).
1.4 Metropolitan Area Network (MAN).
1.5 Campus Area Network (CAN).
1.6 Storage Area Network (SAN).
1.7 Personal Area Network (PAN).
1.8 Network Architecture:
1.8.a Peer-to-Peer Networks.
1.8.b Client/Server Networks.
1.9 Physical Network Topologies:
1.9.a Bus Topology.
1.9.b Star Topology.
1.9.c Ring Topology.
1.9.d Mesh Topology.
1.9.e Point-to-Point Topology.
1.9.f Point-to-Multipoint Topology.
1.9.g Hybrid Topology.

Chapter 2 Open Systems Interconnection (OSI) Specifications.

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Chapter 3 Networking Connectors, and Wiring Standards

3.1 Coaxial Cable.
3.2 Twisted pair Cable.
3.3 Fiber optic Cable.

Chapter 4 Current Ethernet

4.1 Ethernet Basics.
4.2 Collision Domain.
4.3 Broadcast Domain.
4.4 CSMA/CD.
4.5 Half- and Full-Duplex Ethernet.

Chapter 5 Networking Devices

5.1 Hubs.
5.2 Repeaters.
5.3 Modem.
5.4 Network Interface Card (NIC).
5.5 Switches.
5.6 Bridges.
5.7 Routers.
5.8 Layer 3 Switches.
5.9 wireless access point (WAP).
5.10 Wireless LAN Controller.
5.11 Load Balancer.

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5.12 Proxy Servers.
5.13 Voice over IP (VoIP) private branch exchange (PBX).
5.14 intrusion detection system (IDS).
5.15 intrusion prevention system (IPS).
5.16 Firewall.
5.17 Next-generation firewalls (NGFWs).
5.18 printers and Cameras.
5.19 Servers.

Chapter 6 Introduction to Internet Protocol.

Chapter 7 IP Addressing

7.1 Internet Protocol Address Version 4 (IPv4).
7.2 Internet Protocol Address Version 6 (IPv6).

Chapter 8 Introduction to IP Routing

8.1 Static Routing.
8.2 Dynamic Routing.
8.3 Default Routing.

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Chapter 9 Introduction of Switching

9.1 VIRTUAL LAN (VLAN).
9.2 Spanning Tree Protocol (STP).
9.3 Power over Ethernet (PoE).

Chapter 10 Wireless Technologies

10.1 Wi-Fi Standards.
10.2 Frequencies:
10.2.a 2.4 GHz & 5 GHz.
10.3 Channel Bandwidth.
10.4 Wireless Topologies:
10.4.a Service Set Identifier (SSID).
10.4.b Extended service set (ESS).
10.5 Wireless Security:
10.5.a Wi-Fi Protected Access (WPA).
10.5.b Wi-Fi Protected Access 2 (WPA2).

Chapter 11 Wide Area Networks:

11.1 Defining WAN Terms:
11.1.a Customer premises equipment (CPE).
11.1.b Channel service unit/data service unit (CSU/DSU).
11.1.c Local loop.
11.1.d Central office (CO).
11.1.e Public Switched Telephone Network (PSTN).
11.2 WAN Connection Types:

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11.2.a Leased lines.
11.2.b Circuit switching.
11.2.c Packet switching.
11.3 WAN Protocols:
11.3.a Integrated Services Digital Network (ISDN).
11.3.b Frame Relay Technology.
11.3.c Multi-Protocol Label Switching (MPLS).

Chapter 12 Network Security

Chapter 13 Network Troubleshooting

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