



# Data, Network, & Internet Communications Technology

*Ata Elahi, Mehran Elahi*

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This thorough primer examines the technological aspects of networking through a practical approach. Readers will gain knowledge of local area networks (LANs), wide area networks (WANs), the Internet, wireless LANs, wireless MANs, voice over IP (VoIP), as well as asynchronous transfer mode (ATM) and network security. Introductory chapters on foundational topics, such as data communications and computer architecture give readers the knowledge base they need to understand more complex networking concepts. This book effectively utilizes a practical approach to networking rather than a strict focus on theory or math, and requires no prior background in communications technology.

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Network technologies are called basic technologies or network architectures of local networks. Network technology or architecture defines the topology and method of access to the medium, the cable system or medium, the format of network frames, the type of signal coding, the transmission speed in the local network. PKI supports privacy and protection of data communication between browsers and servers, but it requires implicit trust from a single entity or entities chain called a certificate authority (CA) which has led to a breakdown in confidence. Through the years, having one root entity to control the way private keys are issued to the public has showed that it can cause major complications with transparency and security. Such systems are often called data communications networks. This is in contrast to the broader term telecommunications, which includes the transmission of voice and video (images and graphics) as well as data and usually implies longer distances. An extranet is similar to an intranet in that it, too, uses the same technologies as the Internet but instead is provided to invited users outside the organization who access it over the Internet. It can provide access to information services, inventories, and other internal organizational databases that are provided only to customers, suppliers, or those who have paid for access. Typically, users are given passwords to gain access, but more sophisticated technologies such as smart cards or special software may also be required. Network and internet communication technology concept, data center interior, server racks with telecommunication equipment in server room, 3d illustration. c. By cybrain. Related keywords. data center server storage cloud room computer datacenter farm network technology rack warehouse mainframe blue service firewall internet system infrastructure database concept online web communication interior light performance tower 3d business cluster computing connection domain engineering equipment framework global hardware host hosting industry information networking racks rendering security telecommun

A computer network is a digital telecommunications network which allows nodes to share resources. In computer networks, computing devices exchange data with each other using connections (data links) between nodes. These data links are established over cable media such as twisted pair or fiber-optic cables, and wireless media such as Wi-Fi. Network computer devices that originate, route and terminate the data are called network nodes. Nodes are generally identified by network addresses, and can include