



Computer and Communication Networks (2nd Edition)

Nader F. Mir

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Computer and Communication Networks, Second Edition, explains the modern technologies of networking and communications, preparing you to analyze and simulate complex networks, and to design cost-effective networks for emerging requirements. Offering uniquely balanced coverage of basic and advanced topics, it teaches through case studies, realistic examples and exercises, and intuitive illustrations.

Nader F. Mir establishes a solid foundation in basic networking concepts; TCP/IP schemes; wireless and LTE networks; Internet applications, such as Web and e-mail; and network security. Then, he delves into both network analysis and advanced networking protocols, VoIP, cloud-based multimedia networking, SDN, and virtualized networks.

In this new edition, Mir provides updated, practical, scenario-based information that many networking books lack, offering a uniquely effective blend of theory and implementation. Drawing on extensive field experience, he presents many contemporary applications and covers key topics that other texts overlook, including P2P and voice/video networking, SDN, information-centric networking, and modern router/switch design.

Students, researchers, and networking professionals will find up-to-date, thorough coverage of

- Packet switching
- Internet protocols (including IPv6)
- Networking devices
- Links and link interfaces
- LANs, WANs, and Internetworking
- Multicast routing, and protocols
- Wide area wireless networks and LTE
- Transport and end-to-end protocols
- Network applications and management
- Network security
- Network queues and delay analysis
- Advanced router/switch architecture
- QoS and scheduling
- Tunneling, VPNs, and MPLS
- All-optical networks, WDM, and GMPLS
- Cloud computing and network virtualization
- Software defined networking (SDN)
- VoIP signaling
- Media exchange and voice/video compression
- Distributed/cloud-based multimedia networks
- Mobile ad hoc networks
- Wireless sensor networks

Key features include

- More than three hundred fifty figures that simplify complex topics
- Numerous algorithms that summarize key networking protocols and equations
- Up-to-date case studies illuminating concepts and theory
- Approximately four hundred exercises and examples honed over Mir's twenty years of teaching networking



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