Computer and Communication Networks

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As the number and variety of communication services grow, so do the challenges of designing cost-effective networks that meet the requirements of emerging technologies in wireless, sensor, and mesh networks. *Computer and Communication Networks* is the first book to offer balanced coverage of all these topics using extensive case studies and examples.

This essential reference begins by providing a solid foundation in TCP/IP schemes, wireless networking, Internet applications, and network security. The author then delves into the field's analytical aspects and advanced networking protocols.

Students and researchers will find up-to-date, comprehensive coverage of fundamental and advanced networking topics, including:

- Packet-switched networks and Internet Network protocols

- Links

- LAN Protocols

- Wireless Networks

- Transport Protocols

- Applications and Management

- Network Security

- Delay Analysis

- QoS

- High speed protocols

- Voice over IP

- Optical Networks

- Multicasting Protocols

- Compression of Voice and Video

- Sensor/Mesh Networks

Network architecture books are often criticized for not offering enough practical, scenario-based information. *Computer and Communication Networks* provides an effective blend of theory and implementation not found in other books.

Key features include:

- Figures and images that simplify complex topics

- Equations and algorithms

- Case studies that further explain concepts and theory

- Exercises and examples honed through the author's twelve years of teaching about networking

Overall, readers will find a thorough design and performance evaluation that provides a foundation for developing the ability to analyze and simulate complex communication networks.

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