

Larry L. Peterson | Bruce S. Davie

# COMPUTER NETWORKS

A Systems Approach



Sixth Edition

# Computer Networks A Systems Approach

**Larry L. Peterson, Bruce S. Davie**

## **Computer Networks A Systems Approach:**

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who are still actively designing the computer networks today. This newly revised edition continues to provide an enduring practical understanding of networks and their building blocks through rich example based instruction. The authors focus is on the why of network design not just the specifications comprising today's systems but how key technologies and protocols actually work in the real world to solve specific problems. The new edition makes less use of computer code to explain protocols than earlier editions. Moreover this new edition shifts the focus somewhat higher in the protocol stack where there is generally more innovative and exciting work going on at the application and session layers than at the link and physical layers. Completely updated with NEW sidebars discussing successes failures of previously deployed networks. Thorough companion website with downloadable OpNet network simulation software and lab experiments manual. Expanded coverage of topics of utmost importance to today's networking professionals e.g. security, wireless, multimedia applications.

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considering the behavior of the system as a whole not just the optimization of individual components. The authors applied the systems approach to the study of computer networking with their popular textbook *Computer Networks A Systems Approach*. In this book they have collected a set of essays published since 2020 on a variety of systems topics with the aim of teaching the systems approach by example. The essays are grouped by theme covering specific technologies such as 5G, congestion control, security and software defined networking. There are also chapters on broader topics such as the importance of architecture and the need for judgement on the part of the system designer. Each chapter concludes with a set of key takeaways that can be applied by practitioners, researchers and educators to bring system level thinking to their jobs. Readers will gain a deeper understanding of the principles that apply to the building and deployment of systems. An outstanding read on how and why we got here. Rarely do we get the opportunity to read the lineage of thinking of two prominent leaders in the network and systems field peering into their minds and how they work. That alone is the worth the price of admission. David Ward CTO Lumen. [\*\*Computer Networks\*\*](#) Victor G Perdomo, 2025. Advanced Networking Protocols. Dive into advanced networking protocols and technologies including multi protocol label switching, MPLS, border gateway protocol, BGP, IPv6, virtual private networks, VPNs and advanced transport layer protocols. The volume provides in-depth coverage of these protocols, design, operation and implementation. Network Security and Cryptography. Explore comprehensive topics on network security including cryptographic techniques, secure communication protocols (e.g. SSL, TLS, IPsec), firewalls, intrusion detection and prevention systems, and the principles of secure network design. The volume addresses contemporary security challenges and best practices for safeguarding network infrastructure. Wireless and Mobile Networks. Cover the concepts and technologies behind wireless and mobile networks including Wi-Fi, cellular networks (e.g. LTE, 5G) and mobile IP. The volume explores the challenges and solutions related to mobility, handoff, interference management and spectrum allocation in wireless communications. Network Management and Monitoring. Examine network management frameworks, tools and protocols including Simple Network Management Protocol (SNMP), network monitoring, fault management and performance monitoring. The volume also addresses automation in network management with a focus on software defined networking (SDN) and network function virtualization (NFV). [\*\*Software-Defined Networks\*\*](#) Larry Peterson, Carmelo Cascone, Bruce Davie, 2021-02. Software Defined Networks. SDN are transforming the Internet by replacing bundled proprietary hardware and control software. SDN is being embraced by cloud providers, telcos and enterprises as it enables a new era of innovation in networking. This book provides a comprehensive introduction to SDN from the perspective of those who are developing and leveraging the technology. Book Features: Describes a complete SDN stack illustrated with example open source software. Emphasizes underlying concepts, abstractions and design rationale. Describes both fixed function and programmable switching chips. Describes the P4 based toolchain for programming and controlling switches. Describes a range of SDN use cases: enterprises, datacenters, access networks. Includes hands on programming exercises, downloadable from GitHub.

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