Foundations of Modern Networking: SDN, NFV, QoE, IoT, and Cloud

By William Stallings

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Foundations of Modern Networking is a comprehensive, unified survey of modern networking technology and applications for today's professionals, managers, and students. Dr. William Stallings offers clear and well-organized coverage of five key technologies that are transforming networks: Software-Defined Networks (SDN), Network Functions Virtualization (NFV), Quality of Experience (QoE), the Internet of Things (IoT), and cloudbased services.

Dr. Stallings reviews current network ecosystems and the challenges they face–from Big Data and mobility to security and complexity. Next, he offers complete, self-contained coverage of each new set of technologies: how they work, how they are architected, and how they can be applied to solve real problems. Dr. Stallings presents a chapter-length analysis of emerging security issues in modern networks. He concludes with an up-to date discussion of networking careers, including important recent changes in roles and skill requirements.

Coverage:

- Elements of the modern networking ecosystem: technologies, architecture, services, and applications
- Evolving requirements of current network environments
- SDN: concepts, rationale, applications, and standards across data, control, and application planes
- OpenFlow, OpenDaylight, and other key SDN technologies
- Network functions virtualization: concepts, technology, applications, and software defined infrastructure
- Ensuring customer Quality of Experience (QoE) with interactive video and multimedia network traffic
- Cloud networking: services, deployment models, architecture, and linkages to SDN and NFV
- IoT and fog computing in depth: key components of IoT-enabled devices, model architectures, and example implementations

- Securing SDN, NFV, cloud, and IoT environments
- Career preparation and ongoing education for tomorrow's networking careers

Key Features:

- Strong coverage of unifying principles and practical techniques
- More than a hundred figures that clarify key concepts
- Web support at *williamstallings.com/Network/*
- QR codes throughout, linking to the website and other resources
- Keyword/acronym lists, recommended readings, and glossary
- Margin note definitions of key words throughout the text

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Editorial Review

About the Author

Dr. William Stallings has made a unique contribution to understanding the broad sweep of technical developments in computer security, computer networking, and computer architecture. He has authored 18 textbooks, and, counting revised editions, a total of 70 books on various aspects of these subjects. His writings have appeared in numerous ACM and IEEE publications, including the *Proceedings of the IEEE* and *ACM Computing Reviews*. He has 13 times received the award for the best computer science textbook of the year from the Text and Academic Authors Association.

In over 30 years in the field, he has been a technical contributor, technical manager, and an executive with several high-technology firms. He has designed and implemented both TCP/IP-based and OSI-based protocol suites on a variety of computers and operating systems, ranging from microcomputers to mainframes. Currently, he is an independent consultant whose clients have included computer and networking manufacturers and customers, software development firms, and leading-edge government research institutions.

He created and maintains the Computer Science Student Resource Site at ComputerScie nceStudent.com/. This site provides documents and links on a variety of subjects of general interest to computer science students (and professionals). He is a member of the editorial board of *Cryptologia*, a scholarly journal devoted to all aspects of cryptology.

Dr. Stallings holds a Ph.D. from M.I.T. in Computer Science and a B.S. from Notre Dame in electrical engineering.

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