Introduction To Computer Networking Chapter 1

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CD-ROM contains: Example programs and files -- Demonstration version of LanExplorer.

If a network is not secure, how valuable is it? Introduction to Computer Networks and Cybersecurity takes an integrated approach to networking and cybersecurity, highlighting the interconnections so that you quickly understand the complex design issues in modern networks. This full-color book uses a wealth of examples and illustrations to effectively connect the principles of networks and networking protocols with the relevant cybersecurity issues. Get the Fundamentals of Internet Architecture and the Protocol Layers Organized into six parts, the book walks you through the fundamentals, starting with the way most people first encounter computer networks⏸through the Internet architecture. Part 1 covers the most important Internet applications and the methods used to develop them. Part 2 discusses the network edge, consisting of hosts, access networks, LANs, and the physical media used with the physical and link layers. Part 3 explores the network core, including packet/circuit switches, routers, and the Internet backbone, and Part 4 examines reliable transport and the management of network congestion. Learn about Malware and Security Systems Building on the concepts and principles, the book then delves into state-of-the-art cybersecurity mechanisms in Part 5. It reviews the types of malware and the various security systems, made up of firewalls, intrusion detection systems, and other components. Crucially, it provides a seamless view of an information infrastructure in which security capabilities are built in rather than treated as an add-on feature. The book closes with a look at emerging technologies, including virtualization and data center and cloud computing unified communication. Understand Cyber Attacks⏸and What You Can Do to Defend against Them This comprehensive text supplies a carefully designed introduction to both the fundamentals of networks and the latest advances in Internet security. Addressing cybersecurity from an Internet perspective, it prepares you to better understand the motivation and methods of cyber attacks and what you can do to protect the networks and the applications that run on them. Pedagogical Features The book⏸s modular design offers exceptional flexibility, whether you want to use it for quick reference, self-study, or a wide variety of one- or two-semester courses in computer networks, cybersecurity, or a hybrid of both. Learning goals in each chapter show you what you can expect to learn, and end-of-chapter problems and questions test your understanding. Throughout, the book uses real-world examples and extensive illustrations and screen captures to explain complicated concepts simply and clearly. Ancillary materials, including PowerPoint® animations, are available to instructors with qualifying course adoption.

Appropriate for a first course on computer networking, this textbook describes the architecture and function of the application, transport, network, and link layers of the internet protocol stack, then examines audio and video networking applications, the underpinnings of encryption and network security, and the key issues of network management. Th

This book demystifies the amazing architecture and protocols of computers as they communicate over the Internet. While very complex, the Internet operates on a few relatively simple concepts that anyone can understand. Networks and networked applications are embedded in our lives. Understanding how these technologies work is invaluable. This book was written for everyone - no technical knowledge is required!While this book is not specifically about the Network+ or CCNA certifications, it as a way to give students interested in these certifications a starting point.

Covers the objectives of the CCNA INTRO exam and provides review questions, scenario-based exercises, and a testing engine found on the companion CD-ROM.

This book gives a broad look at both fundamental networking technology and new areas that support it and use it. It is a concise introduction to the most prominent, recent technological topics in computer networking. Topics include network technology such as wired and wireless networks, enabling technologies such as data centers, software defined networking, cloud and grid computing and applications such as networks on chips, space networking and network security. The accessible writing style and non-mathematical treatment makes this a useful book for the student, network and communications engineer, computer scientist and IT professional.

"Computer Networking Essentials" starts with an introduction to networking concepts. Readers learn computer networking terminology and history, and then dive into the technical concepts involved in sharing data across a computer network.

The merging of computer and communication technologies with consumer electronics has opened up new vistas for a wide variety of designs of computing systems for diverse application areas. This revised and updated third edition on Computer Organization and Design strives to make the students keep pace with the changes, both in technology and pedagogy in the fast growing discipline of computer science and engineering. The basic principles of how the intended behaviour of complex functions can be realized with the interconnected network of digital blocks are explained in an easy-to-understand style. WHAT IS NEW TO THIS EDITION : Includes a new chapter on Computer Networking, Internet, and Wireless Networks. Introduces topics such as wireless input-output devices, RAID technology built around disk arrays, USB, SCSI, etc. Key Features Provides a large number of design problems and their solutions in each chapter. Presents state-of-the-art memory technology which includes EEPROM and Flash Memory apart from Main Storage, Cache, Virtual Memory, Associative Memory, Magnetic Bubble, and Charged Couple Device. Shows how the basic data types and data structures are supported in hardware. Besides students, practising engineers should find reading this design-oriented text both useful and rewarding.

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