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Guide To Computer Network Security Computer Communications And Networks

One of the first books to provide a comprehensive description of OPNET® IT Guru and Modeler software, The Practical OPNET® User Guide for Computer Network Simulation explains how to use this software for simulating and modeling computer networks. The included laboratory projects help readers learn different aspects of the software in a hands-on way. Quickly Locate Instructions for Performing a Task The book

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begins with a systematic introduction to the basic features of OPNET, which are necessary for performing any network simulation. The remainder of the text describes how to work with various protocol layers using a top-down approach. Every chapter explains the relevant OPNET features and includes step-by-step instructions on how to use the features during a network simulation. Gain a Better Understanding of the "Whats" and "Whys" of the Simulations Each laboratory project in the back of the book presents a complete simulation and reflects the same progression of topics found in the main text. The projects describe the overall goals of the experiment, discuss the general

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network topology, and give a high-level description of the system configuration required to complete the simulation. Discover the Complex Functionality Available in OPNET By providing an in-depth look at the rich features of OPNET software, this guide is an invaluable reference for IT professionals and researchers who need to create simulation models. The book also helps newcomers understand OPNET by organizing the material in a logical manner that corresponds to the protocol layers in a network.

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book and let your customers
prevent cyber-attacks!

Computer Security: Principles and

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Practice, 2e, is ideal for courses in Computer/Network Security. In recent years, the need for education in computer security and related topics has grown dramatically – and is essential for anyone studying Computer Science or Computer Engineering. This is the only text available to provide integrated, comprehensive, up-to-date coverage of the broad range of topics in this subject. In addition to an extensive pedagogical program, the book provides unparalleled support for both research and modeling projects, giving students a broader perspective. The Text and Academic Authors Association named Computer Security: Principles and Practice, 1e, the

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winner of the Textbook
Excellence Award for the best
Computer Science textbook of
2008.

First Published in 2002. Network Security: a practical guide provides a comprehensive review of network security issues, with relevance to corporate networks, from both an administrative and user perspective. It is particularly suited to IS executives, administrators and managers who wish to review their own network security procedures or for those who simply want to learn more about the network security issues that face their organization. The book covers a broad range of issues, starting with an assessment of network security, including the financial

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implications of security breaches, and moving on to discuss the different types of security threats facing computer networks.

Particular attention is also given to the legal framework for network security. Attention is then turned to increasing security awareness and readiness, including system configuration, acceptable use, business continuity, and explaining technical solutions available such as firewalls and content control. Introduction of a security policy is widely accepted as best practise in informing and educating users, and the final chapter is devoted to policy writing. By the end of the book readers should be ready to create and implement a network security policy for their

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organization and start reducing overheads and downtime immediately! *Discusses all the relevant issues with a concise, straightforward, and readily accessible approach. *Important emphasis placed on the people management aspects of network security. *Practical business oriented approach includes reference to legal and financial aspects of network security. *Companion web site at www.networksecurity.org.uk includes updates, additional material, downloads, and links to resources and further information.

Network Security and
Cryptography
Safe Computing in the
Information Age

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Computer Security
Understanding Cybersecurity
Technologies

Technologies

Guide to Computer Network
Security

Security+ Guide to Network
Security Fundamentals

If you are searching for the fastest way to learn the secrets of a professional hacker, then keep reading. You are about to begin a journey into the deepest areas of the web, which will lead you to understand perfectly the most effective strategies to hack any system you want, even if you have zero experience and you are brand new to programming. In this book, Daniel Howard has condensed all the knowledge you need in a simple and practical way, with real-world

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examples, step-by-step instructions and tips from his experience. Kali Linux is an open-source project, worldwide recognized as the most powerful tool for computer security and penetration testing, thanks to its large number of dedicated functions which will be discussed in detail. Anyone should read the information inside this book, at least to identify any potential security issue and prevent serious consequences for his own security or even his privacy. You need to stay a step ahead of any criminal hacker, which is exactly where you will be after reading Hacking with Kali Linux. Moreover, don't forget that hacking is absolutely not necessarily associated to a criminal activity. In

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fact, ethical hacking is becoming one of the most requested and well-paid positions in every big company all around the world. If you are a student or a professional interested in developing a career in this world, this book will be your best guide. Here's just a tiny fraction of what you'll discover: Different types of hacking attacks What is ethical hacking How to crack any computer and any network system, accessing all the data you want How to master the Linux operating system and its command line How to use Kali Linux for hacking and penetration testing Kali Linux port scanning strategies Little known cryptography techniques Computer networks' vulnerabilities and the basics of

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cybersecurity How to identify suspicious signals and prevent any external attack against your own device How to use VPNs and firewalls If you are ready to access the hidden world of hacking, then click the BUY button and get your copy!

This book presents the outcomes of the 2019 International Conference on Cyber Security Intelligence and Analytics (CSIA2019), an international conference dedicated to promoting novel theoretical and applied research advances in the interdisciplinary field of cyber security, particularly focusing on threat intelligence, analytics, and countering cyber crime. The conference provides a forum for

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presenting and discussing innovative ideas, cutting-edge research findings, and novel techniques, methods and applications on all aspects of Cyber Security Intelligence and Analytics. This timely textbook presents a comprehensive guide to the core topics in cybersecurity, covering issues of security that extend beyond traditional computer networks to the ubiquitous mobile communications and online social networks that have become part of our daily lives. In the context of our growing dependence on an ever-changing digital ecosystem, this book stresses the importance of security awareness, whether in our homes, our businesses, or our public

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spaces. This fully updated new edition features new material on the security issues raised by blockchain technology, and its use in logistics, digital ledgers, payments systems, and digital contracts. Topics and features: Explores the full range of security risks and vulnerabilities in all connected digital systems Inspires debate over future developments and improvements necessary to enhance the security of personal, public, and private enterprise systems Raises thought-provoking questions regarding legislative, legal, social, technical, and ethical challenges, such as the tension between privacy and security Describes the fundamentals of traditional computer network

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security, and common threats to security Reviews the current landscape of tools, algorithms, and professional best practices in use to maintain security of digital systems Discusses the security issues introduced by the latest generation of network technologies, including mobile systems, cloud computing, and blockchain Presents exercises of varying levels of difficulty at the end of each chapter, and concludes with a diverse selection of practical projects Offers supplementary material for students and instructors at an associated website, including slides, additional projects, and syllabus suggestions This important textbook/reference is an invaluable resource for students of computer

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science, engineering, and information management, as well as for practitioners working in data- and information-intensive industries.

The Practical, Comprehensive Guide to Applying Cybersecurity Best Practices and Standards in Real Environments In Effective Cybersecurity, William Stallings introduces the technology, operational procedures, and management practices needed for successful cybersecurity. Stallings makes extensive use of standards and best practices documents that are often used to guide or mandate cybersecurity implementation. Going beyond these, he offers in-depth tutorials on the “how” of implementation, integrated into a

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unified framework and realistic plan of action. Each chapter contains a clear technical overview, as well as a detailed discussion of action items and appropriate policies. Stallings offers many pedagogical features designed to help readers master the material: clear learning objectives, keyword lists, review questions, and QR codes linking to relevant standards documents and web resources. Effective Cybersecurity aligns with the comprehensive Information Security Forum document “The Standard of Good Practice for Information Security,” extending ISF’s work with extensive insights from ISO, NIST, COBIT, other official standards and guidelines, and modern

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professional, academic, and industry literature. • Understand the cybersecurity discipline and the role of standards and best practices • Define security governance, assess risks, and manage strategy and tactics • Safeguard information and privacy, and ensure GDPR compliance • Harden systems across the system development life cycle (SDLC) • Protect servers, virtualized systems, and storage • Secure networks and electronic communications, from email to VoIP • Apply the most appropriate methods for user authentication • Mitigate security risks in supply chains and cloud environments This knowledge is indispensable to every cybersecurity professional. Stallings

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presents it systematically and coherently, making it practical and actionable.

The Complete Guide to
Understanding Wireless
Technology, Network Security,
Computer Architecture and
Communications Systems (Including
Cisco, CCNA and CCENT)

A Beginner's Guide to Internet of
Things Security

A Guide to Using Best Practices and
Standards

Windows Networking Tools

Network Security Assessment

An All-in-One Beginner's Guide to
Understanding Communications
Systems, Network Security, Internet
Connections, Cybersecurity and
Hacking

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The classic guide to network security—now fully

updated!"Bob and Alice are back!" Widely regarded as the most comprehensive yet comprehensible guide to network security, the first edition of Network Security received critical acclaim for its lucid and witty explanations of the inner workings of network security protocols. In the second edition, this most distinguished of author teams draws on hard-won experience to explain the latest developments in this field that has become so critical to our global network-dependent society.

Network Security, Second

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Edition brings together
clear, insightful, and

clever explanations of every
key facet of information
security, from the basics to
advanced cryptography and
authentication, secure Web
and email services, and
emerging security standards.

Coverage includes: All-new
discussions of the Advanced
Encryption Standard (AES),
IPsec, SSL, and Web security

Cryptography: In-depth,
exceptionally clear
introductions to secret and
public keys, hashes, message
digests, and other crucial

concepts Authentication:
Proving identity across
networks, common attacks
against authentication

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systems, authenticating people, and avoiding the pitfalls of authentication handshakes Core Internet security standards: Kerberos 4/5, IPsec, SSL, PKIX, and X.509 Email security: Key elements of a secure email system-plus detailed coverage of PEM, S/MIME, and PGP Web security: Security issues associated with URLs, HTTP, HTML, and cookies Security implementations in diverse platforms, including Windows, NetWare, and Lotus Notes The authors go far beyond documenting standards and technology: They contrast competing schemes, explain strengths and weaknesses, and identify the

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crucial errors most likely to compromise secure systems. Network Security will appeal to a wide range of professionals, from those who design or evaluate security systems to system administrators and programmers who want a better understanding of this important field. It can also be used as a textbook at the graduate or advanced undergraduate level.

This fully revised and updated new edition of the definitive text/reference on computer network and information security presents a comprehensive guide to the repertoire of security tools, algorithms

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and best practices mandated
by the technology we depend

on. Topics and features:
highlights the magnitude of
the vulnerabilities,
weaknesses and loopholes
inherent in computer
networks; discusses how to
develop effective security
solutions, protocols, and
best practices for the
modern computing
environment; examines the
role of legislation,
regulation, and enforcement
in securing computing and
mobile systems; describes
the burning security issues
brought about by the advent
of the Internet of Things
and the eroding boundaries
between enterprise and home

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networks (NEW); provides both quickly workable and more thought-provoking exercises at the end of each chapter, with one chapter devoted entirely to hands-on exercises; supplies additional support materials for instructors at an associated website.

The book provides the reader with a one-stop highway to learning about the fundamentals of computer networking, Internet connectivity, cybersecurity, and hacking.

Computer crimes and the invasion of privacy by electronics means are major concerns. They threaten the future of access to

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information. This book comprehensively covers these subjects. Chapter one explains both the infrastructure and communication protocols to help in understanding computer crimes. Chapter two addresses the motives for cyber attacks-- personal, pleasure seeking, attention seeking, revenge or even vendetta, financial escapades, and raw hate. Likely targets and security issues in computer augmented settings are discussed in chapter three. Chapter four addresses the costs of computer crimes-- to individuals, to the nation and to businesses. The crime

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prevention efforts of individuals, civic groups, institutions, nations, and multinational bodies are described in chapter five. Chapter six assesses the future of cyber attacks by looking at the changing technology, access to computers by criminals, and education and crime prevention measures. The mind of the computer hacker is also explored at length. Computer Networking and Cybersecurity
Guide To Computer Network Security
Cyber Security Intelligence and Analytics
Energy Efficient Solutions for Business and Home

Download Free Guide To Computer Network Security Computer Communications And Networks Essentials

A Guide to Understanding
Communications Systems,
Internet Connections, and
Network Security Along with
Protection from Hacking and
Cyber Security Threats

Do you want to learn how to set up a new network for your home or business place and get the best performance of your network? Do you want to learn about Network Mode Security? If so then keep reading. In this tech-savvy world of today, everyone is looking out for speed in their life. There were days when a single message used to take many days to get delivered to the

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recipient. Today, with the advent of networking and the internet, people can easily send out data packets of their need. The various forms of internet communication have also changed the whole concept of communication across a long distance. Networking has adapted the concepts of wireless functioning which have helped in wiping out various redundancies. The wired form of network is still in use owing to its special features and working capabilities. Networking is a complex concept and if done right it can do wonders. Having a brief overview of the networking

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concepts is very essential for setting up a new network or for improving the functionality of an existing network. The chapters of this book have been arranged in a very unique way that will provide you with the answers to all your questions regarding networking and all that you need for creating a new network. You will learn:

- The basic format of networking
- The successful networking processes
- The master controller who holds all necessary information required by the recipient
- The necessary components of networking
- The types of networks
- Wireless Networking
- Peer to Peer

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Connection OSI Model Network
Mode Security Circuit and
Packet Switching FTP - File
Transfer Protocol ...and more!

You need to start from the very beginning in order to set up a brand new network. It might turn out to be a tiresome job but try to stay attentive at each and every step you take as even a slight mistake or error can make a network non-functional. So, if you are interested in the various aspects of Networking along with its various components,

Networking for Beginners: The Complete Guide to Computer Network Basics, Wireless Technology and Network

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Security is something that you really need to possess. Scroll up and click the Buy Now button and feel like a master of networking within a few days! "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.

Do you want to find out how a computer network works? Do you want to understand what it all takes to keep a home or office network up and running? This

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book is all you need! It will help you navigate your way to becoming proficient with network fundamentals and technology. When the first computers were built during the Second World War, they were expensive and isolated. However, after about twenty years, as their prices gradually decreased, the first experiments began to connect computers together. At the time, sharing them over a long distance was an interesting idea. Computers and the Internet have changed this world and our lifestyle forever. We just need to touch a small button and within a fraction of a second, we can

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make a call, send a file or video message. The major factor that lies behind this advanced technology is none other than computer network. That's why it's important to know how it works! Networking for Beginners covers the following topics: Networking Basics - This chapter considers the needs of a real beginner in computer networking and covers the following crucial topics: definition of computer networking, types of computer networks, network topologies, and network architecture. Network Hardware - A comprehensive discussion on different network components

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that include routers, hubs, switches, etc. Network Cabling -

This chapter discusses the different cabling standards include coaxial, fiber optic cable, and twisted-pair copper cable.

Wireless Networking -

Fundamental technicalities of wireless technology that is of great significance to the entire computer networking discipline.

This chapter offers important information on how to enjoy the benefits of Wi-Fi technology and how to set up and configure a computer for wireless connectivity.

IP Addressing -

This chapter pays great attention to the basics of IP addressing,

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and the different number systems (binary, decimal, and hexadecimal) IP Subnetting - Introduction to concepts of subnetting. Network Protocols - Various protocols of the TCP/IP suite. Internet Essentials - Different terminologies regarding the Internet, the worldwide web, and the history of the Internet. Virtualization in cloud computing - Concept of virtualization, its relevance in computer networking, and an examination of cloud services. Network Troubleshooting - This chapter considers troubleshooting as a top management function.

NETWORKING FOR

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BEGINNERS is an easy-to-read book for anyone hungry for computer networking knowledge. The language used is simple, and even the very technical terms that pop from time to time have been explained in a way that is easy to understand. Reflecting the latest trends and developments from the information security field, best-selling Security+ Guide to Network Security Fundamentals, Fourth Edition, provides a complete introduction to practical network and computer security and maps to the CompTIA Security+ SY0-301 Certification Exam. The text covers the

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fundamentals of network security, including compliance and operational security; threats and vulnerabilities; application, data, and host security; access control and identity management; and cryptography. The updated edition includes new topics, such as psychological approaches to social engineering attacks, Web application attacks, penetration testing, data loss prevention, cloud computing security, and application programming development security. The new edition features activities that link to the Information Security Community Site, which offers

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video lectures, podcats,
discussion boards, additional
hands-on activities and more to
provide a wealth of resources
and up-to-the minute information.
Important Notice: Media content
referenced within the product
description or the product text
may not be available in the
ebook version.

The Computer Network
Infrastructure and Computer
Security, Cybersecurity Laws,
Internet of Things (IoT), and
Mobile Devices

The Practical OPNET User
Guide for Computer Network
Simulation

Computer Network Security and

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A Concise Module

Know Your Network

Navigating Shades of Gray

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 effective

Filling the need for a single source that introduces all the important network security areas from a practical perspective, this volume covers technical issues, such as defenses

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against software attacks by system crackers, as well as administrative topics, such as formulating a security policy. The bestselling author's writing style is highly accessible and takes a vendor-neutral approach.

A practical handbook for network administrators who need to develop and implement security assessment programs, exploring a variety of offensive technologies, explaining how to design and deploy networks that are immune to offensive tools and scripts, and detailing an efficient testing model. Original. (Intermediate)

This book on computer security threats explores the computer security threats and includes a broad set of solutions to defend the computer systems from the threats. The book is triggered by the

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understanding that digitalization and growing dependence on the Internet poses an increased risk of computer security threats in the modern world. The chapters discuss different research frontiers in computer security with algorithms and implementation details for use in the real world. Researchers and practitioners in areas such as statistics, pattern recognition, machine learning, artificial intelligence, deep learning, data mining, data analytics and visualization are contributing to the field of computer security. The intended audience of this book will mainly consist of researchers, research students, practitioners, data analysts, and business professionals who seek information on computer security threats and its defensive measures.

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Ethical and Social Issues in the
Information Age

Network Security: A Beginner's Guide,
Second Edition

Practical Guide to Computer Network
Hacking, Encryption, Cybersecurity
and Penetration Testing for Beginners.
the Secrets of VPN Services, Firewalls
and the Linux Command Line

A Systems Approach

Attacks, Applications, Authentication,
and Fundamentals

Cyber Security Policy Guidebook

An introduction to the social and
policy issues which have arisen
as a result of IT. Whilst it
assumes a modest familiarity
with computers, the book
provides a guide to the issues
suitable for undergraduates. In

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doing so, the author prompts students to consider questions such as: * How do morality and the law relate to each other? * What should be covered in a professional code of conduct for information technology professionals? * What are the ethical issues relating to copying software? * Is electronic monitoring of employees wrong? * What are the moral codes of cyberspace? Throughout, the book shows how in many ways the technological development is outpacing the ability of our legal systems, and how different paradigms applied to ethical questions often proffer

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conflicting conclusions. As a result, students will find this a thought-provoking and valuable survey of the new and difficult ethical questions posed by the Internet, artificial intelligence, and virtual reality.

This book focuses on green computing-based network security techniques and addresses the challenges involved in practical implementation. It also explores the idea of energy-efficient computing for network and data security and covers the security threats involved in social networks, data centers, IoT, and biomedical applications. Green

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Computing in Network Security: Energy Efficient Solutions for Business and Home includes analysis of green-security mechanisms and explores the role of green computing for secured modern internet applications. It discusses green computing-based distributed learning approaches for security and emphasizes the development of green computing-based security systems for IoT devices. Written with researchers, academic libraries, and professionals in mind so they can get up to speed on network security, the challenges, and implementation

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processes.

A Beginner's Guide to Internet of Things Security focuses on security issues and developments in the Internet of Things (IoT) environment. The wide-ranging applications of IoT, including home appliances, transportation, logistics, healthcare, and smart cities, necessitate security applications that can be applied to every domain with minimal cost. IoT contains three layers: application layer, middleware layer, and perception layer. The security problems of each layer are analyzed separately to identify solutions, along with the

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integration and scalability issues with the cross-layer architecture of IoT. The book discusses the state-of-the-art authentication-based security schemes, which can secure radio frequency identification (RFID) tags, along with some security models that are used to verify whether an authentication scheme is secure against any potential security risks. It also looks at existing authentication schemes and security models with their strengths and weaknesses. The book uses statistical and analytical data and explains its impact on the IoT field, as well as an extensive

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literature survey focusing on trust and privacy problems. The open challenges and future research direction discussed in this book will help to further academic researchers and industry professionals in the domain of security. Dr. Brij B. Gupta is an assistant professor in the Department of Computer Engineering, National Institute of Technology, Kurukshetra, India. Ms. Aakanksha Tewari is a PhD Scholar in the Department of Computer Engineering, National Institute of Technology, Kurukshetra, India.

There is no sorcery to implementing proper

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information security, and the concepts that are included in this fully updated second edition are not rocket science. Build a concrete foundation in network security by using this hands-on guide. Examine the threats and vulnerabilities of your organization and manage them appropriately. Includes new chapters on firewalls, wireless security, and desktop protection. Plus, plenty of up-to-date information on biometrics, Windows.NET Server, state laws, the U.S. Patriot Act, and more. Cybercrime and Information Technology
Easy Guide to Learn

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Basic/Advanced Computer
Network, Hardware, Wireless,
and Cabling. LTE, Internet, and
Cyber Security

Private Communications in a
Public World

Effective Cybersecurity

Networking for Beginners

A Practical Approach

**Network Security and
Cryptography introduces
the basic concepts in
computer networks and
the latest trends and
technologies in
cryptography and network
security. The book is a
definitive guide to the
principles and**

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techniques of cryptography and network security, and introduces basic concepts in computer networks such as classical cipher schemes, public key cryptography, authentication schemes, pretty good privacy, and Internet security. It features the latest material on emerging technologies, related to IoT, cloud computing, SCADA, blockchain, smart grid, big data analytics, and more. Primarily intended as a

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textbook for courses in computer science and electronics & communication, the book also serves as a basic reference and refresher for professionals in these areas. FEATURES: • Includes the latest material on emerging technologies, related to IoT, cloud computing, smart grid, big data analytics, blockchain, and more • Features separate chapters on the mathematics related to network security and cryptography •

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Introduces basic concepts in computer networks including classical cipher schemes, public key cryptography, authentication schemes, pretty good privacy, Internet security services, and system security • Includes end of chapter review questions

This textbook raises thought-provoking questions regarding our rapidly-evolving computing technologies, highlighting the need

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for a strong ethical framework in our computer science education. Ethics in Computing offers a concise introduction to this topic, distilled from the more expansive Ethical and Social Issues in the Information Age. Features: introduces the philosophical framework for analyzing computer ethics; describes the impact of computer technology on issues of security, privacy and anonymity; examines

intellectual property rights in the context of computing; discusses such issues as the digital divide, employee monitoring in the workplace, and health risks; reviews the history of computer crimes and the threat of cyberbullying; provides coverage of the ethics of AI, virtualization technologies, virtual reality, and the Internet; considers the social, moral and ethical challenges arising from social

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networks and mobile
communication

technologies; includes
discussion questions and
exercises.

If you want to know the
basics of wireless
technology and how you
can set up networks and
solve the security
threats, then keep
reading... Whether you
want to know how to
build a large network or
a small one, you always
have to start from the
basics and this book is
full of information in
this respect. Anything

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and everything that you need to know about the world of wireless networks is present in this book. The book has been written keeping in mind all the latest upgrades so that you can stay updated on the facts. It has been composed to serve as a comprehensive guide for all beginners. In this book, you will find that there is a gradual progression towards the more technical aspects of the wireless network so that you can develop

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a good grip on the preliminary subjects before moving into the depths. Here is a summarized version of all the key points which have been mentioned in this book: Different aspects of wireless networks, their applications, and importance A brief introduction to the world of internet Ways in which you can deal with the common security threats and troubleshooting your Wi-Fi connection Strategies

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**to secure your network
from all types of
breaches Some common
types of wireless
networks Even if you are
not aware of the basics,
don't worry as this book
is meant especially for
the first-timers and you
will start knowing
everything right from
the beginning. So, stop
stressing as all you
need to do is take the
first step and
everything will be laid
out in front of you.
Now, it's time for you
to gear up and brush up**

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on your computer
networking skills. All
the basic terminologies
have been explained too
and so there is nothing
to feel intimidated about.
Are you ready to learn
how you can build and
secure your network too?
All you have to do is
scroll up and click on
the Buy Now button!
Windows Networking
Tools: The Complete
Guide to Management,
Troubleshooting, and
Security explains how to
use built-in Windows
networking tools and

third-party networking products to diagnose network problems, address performance issues, and enhance the overall security of your system and network. It starts with a review of the major components of the TCP/IP protocol suite, as well as IP and MAC addressing, to provide a clear understanding of the various networking tools and how they are used in a LAN and a TCP/IP networking environment. Although the book

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focuses on built-in Windows networking tools, it also investigates a number of third-party products that can enhance the performance of your computer. It identifies tools to help you to understand the traffic flow and operational status of your network , illustrates the use of numerous tools, and shows you several methods to protect your computers from malicious software. It also examines one of the best

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programs for examining the flow of data on a network—Wireshark—and explains how to use this program to scan for open ports and discover vulnerability issues. In addition to helping you gain insight into existing problems, the text highlights built-in Windows networking tools that can help to determine if you can expect future bandwidth bottlenecks or other problems to occur under different growth scenarios. Placing the

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proven methods of an industry veteran at your fingertips, the book includes a chapter devoted to software programs that can enhance the security of your network. It explains how to negate the operation of unwanted advertisement trackers as well as how to minimize and alleviate the various types of hacking—from keyboard loggers to network viruses. In the event your computational device is lost or stolen

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a cryptographic program
is described that
results in data becoming
meaningless to the
person or persons
attempting to read your
stored information.

Hacking with Kali Linux
The Complete Guide to
Computer Network Basics,
Wireless Technology and
Network Security
Green Computing in
Network Security
Network Security
Computer Networking
First-Step
A Guide to Computer
Network Security

Computers at Risk presents a comprehensive agenda for developing nationwide policies and practices for computer security. Specific recommendations are provided for industry and for government agencies engaged in computer security activities. The volume also outlines problems and opportunities in computer security research, recommends ways to improve the research infrastructure, and suggests topics for investigators. The book explores the diversity of the field, the need to engineer countermeasures based on speculation of what experts think computer attackers may do next, why the technology

community has failed to respond to the need for enhanced security systems, how innovators could be encouraged to bring more options to the marketplace, and balancing the importance of security against the right of privacy.

*Technology has gradually transitioned from wired to wireless over the years with tons of benefits. From the Internet of Things to wireless communication, we are all witnesses of the huge benefits of wireless technologies. This book covers various subjects and highlights both the benefits and challenges of wireless technologies. Topics: * Wireless Communication Technologies * Mobile*

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*Communication Systems * Wireless
technology challenges * Network
Protocols * Wireless Technology
Security * Features of Secure
Wireless Network Security *
Security Issues in Wireless
Networks * Wireless Network
Computer Architecture * Cellular
Wireless Networks *
Communication Systems and
Networks * Cisco Systems *
Wireless Network Applications *
Wired Network Components *
Wireless Network Components *
Network Security
Computer Networks: A Systems
Approach, Fifth Edition, explores
the key principles of computer
networking, with examples drawn*

*Computer Communications
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from the real world of network and protocol design. Using the Internet as the primary example, this best-selling and classic textbook explains various protocols and networking technologies. The systems-oriented approach encourages students to think about how individual network components fit into a larger, complex system of interactions. This book has a completely updated content with expanded coverage of the topics of utmost importance to networking professionals and students, including P2P, wireless, network security, and network applications such as e-mail and the Web, IP telephony and video

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streaming, and peer-to-peer file sharing. There is now increased focus on application layer issues where innovative and exciting research and design is currently the center of attention. Other topics include network design and architecture; the ways users can connect to a network; the concepts of switching, routing, and internetworking; end-to-end protocols; congestion control and resource allocation; and end-to-end data. Each chapter includes a problem statement, which introduces issues to be examined; shaded sidebars that elaborate on a topic or introduce a related advanced topic; What's Next?

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discussions that deal with emerging issues in research, the commercial world, or society; and exercises.

This book is written for graduate or upper-division undergraduate classes in computer networking. It will also be useful for industry professionals retraining for network-related assignments, as well as for network practitioners seeking to understand the workings of network protocols and the big picture of networking. Completely updated content with expanded coverage of the topics of utmost importance to networking professionals and students, including P2P, wireless, security, and applications Increased focus

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on application layer issues where innovative and exciting research and design is currently the center of attention Free downloadable network simulation software and lab experiments manual available "Drawing upon a wealth of experience from academia, industry, and government service, this book details and dissects current organizational cybersecurity policy issues on a global scale. Using simple language, it includes a thorough description of each issue, lists pros and cons, documents policy alternatives for the sake of clarity with respect to policy alone, and dives into organizational

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implementation issues. It also equips the reader with descriptions of the impact of specific policy choices, both positive and negative. This book gives students, scholars, and technical decision-makers the necessary knowledge of cybersecurity policy in order to make more informed decisions"--Provided by publisher.

Introduction to Computer Networks and Cybersecurity

Introduction to Computer and Network Security

An Introductory Guide to

Understanding Wireless and Cloud Technology, Basic

Communications Services and

Network Security for Beginners

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Ethics in Computing

Computer Security Threats

Computers at Risk

Cyberattacks on enterprises, government institutions, and individuals are exponentially growing. At the same time, the number of companies, both small and large, offering all types of solutions has been increasing too. Since companies rely on technological solutions to protect themselves against cyberattacks, understanding and selecting the right solutions among those offered presents a significant challenge for professionals, company executives, and

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newcomers to the cybersecurity field. FEATURES Presents descriptions for each type of cybersecurity technology and their specifications Explains applications, usages, and offers case studies to enhance comprehension Offers an easy-to-understand classification of existing cybersecurity technologies Provides an understanding of the technologies without getting lost in technical details Focuses on existing technologies used in different solutions, without focusing on the companies that offer these technologies This book is intended to help all

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professionals new to cybersecurity, students, and experts to learn or educate their audiences on the foundations of the available solutions.

If you are a beginner wanting to learn the basics of computer networking without having to go through several books, then keep reading... This book delivers a variety of computer networking-related topics to be easily understood by beginners. It focuses on enabling you to create a strong foundation of concepts of some of the most popular topics in this area. Typically, you may have had to purchase several

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books to cover the majority of the topics provided in this book. However, we have concentrated all five popular topics into one book for beginners. That is why we have called the book an all-in-one guide. We have provided the reader with a one-stop highway to learning about the fundamentals of computer networking, Internet connectivity, cybersecurity, and hacking. This book will have the following advantages: A formal yet informative tone, meaning it won't feel like a lecture. Straight-to-the-point presentation of ideas. Focus on key areas to help achieve

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optimized learning. This creates a dynamic reading experience for beginners as they progress through this book, learning about the important elements of each topic discussed. The book essentially prepares readers for future endeavors on the same topics if they wish to pick up intermediate or advanced level books. Networking is a very important field of knowledge to which the average person may be oblivious, but it's something that is everywhere nowadays. It's a field that is highly intimidating, but, when understood, increases innate

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resourcefulness. That's why this book emphasizes the different aspects of computer networking in such a way that a beginner-level reader can easily understand the basics. The topics outlined in this book are delivered in a reader-friendly manner and in a language easy to understand, constantly piquing your interest so you will want to explore the topics presented even more. So if you want to begin learning about computer networking in an efficient way, then scroll up and click the "add to cart" button!

introduces the fundamentals of traditional computer networks

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and the security threats they face; discusses the security challenges introduced by virtualization software, cloud computing and mobile systems; examines the security quagmire presented by the home computing environment; raises important legislative, legal, social, technical and ethical security issues, including the tension between the needs of individual privacy and collective security; provides both quickly workable and more thought-provoking exercises at the end of each chapter, with one chapter devoted entirely to lab exercises; supplies additional

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support material for instructors at an associated website.

Cybercrime and Information Technology: Theory and Practice—The Computer Network Infrastructure and Computer Security, Cybersecurity Laws, Internet of Things (IoT), and Mobile Devices is an introductory text addressing current technology, trends, and security issues. While many books on the market cover investigations, forensic recovery, and presentation of evidence, and others explain computer and network security, this book explores both, explaining the essential principles governing

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computers, wireless and mobile devices, the Internet of Things, cloud systems, and their significant vulnerabilities. Only with this knowledge can students truly appreciate the security challenges and opportunities for cybercrime that cannot be uncovered, investigated, and adjudicated unless they are understood. The legal portion of the book is an overview of the legal system in the United States, including cyberlaw standards, and regulations affecting cybercrime. This section includes cases in progress that are shaping and developing legal precedents. As is often

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the case, new technologies require new statues and regulations—something the law is often slow to move on given the current speed in which technology advances. Key Features: Provides a strong foundation of cybercrime knowledge along with the core concepts of networking, computer security, Internet of Things (IoT), and mobile devices. Addresses legal statutes and precedents fundamental to understanding investigative and forensic issues relative to evidence collection and preservation. Identifies the new security challenges of emerging

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technologies including mobile devices, cloud computing, Software-as-a-Service (SaaS), VMware, and the Internet of Things. Strengthens student understanding of the fundamentals of computer and network security, concepts that are often glossed over in many textbooks, and includes the study of cybercrime as critical forward-looking cybersecurity challenges. Cybercrime and Information Technology is a welcome addition to the literature, particularly for those professors seeking a more hands-on, forward-looking approach to technology and trends. Coverage is applicable

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to all forensic science courses in computer science and forensic programs, particularly those housed in criminal justice departments emphasizing digital evidence and investigation processes. The textbook is appropriate for courses in the Computer Forensics and Criminal Justice curriculum, and is relevant to those studying Security Administration, Public Administrations, Police Studies, Business Administration, Computer Science, and Information Systems. An Instructor's Manual with Test Bank and chapter PowerPoint slides is available to qualified

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professors for use in classroom instruction.

Computer Networking
Principles and Practice
The Complete Guide to
Management, Troubleshooting,
and Security

A Guide to Selecting the Right
Cybersecurity Tools
Computer Networks

*Guides Students in Understanding
the Interactions between
Computing/Networking*

*Technologies and Security Issues
Taking an interactive, "learn-by-
doing" approach to teaching,
Introduction to Computer and
Network Security: Navigating
Shades of Gray gives you a clear*

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course to teach the technical issues related to security. Unlike most computer security books, which concentrate on software design and implementation, cryptographic tools, or networking issues, this text also explores how the interactions between hardware, software, and users affect system security. The book presents basic principles and concepts, along with examples of current threats to illustrate how the principles can either enable or neutralize exploits. Students see the importance of these concepts in existing and future technologies. In a challenging yet enjoyable way, they learn about a variety of technical topics, including current

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security exploits, technical factors that enable attacks, and economic and social factors that determine the security of future systems.

Extensively classroom-tested, the material is structured around a set of challenging projects. Through staging exploits and choosing countermeasures to neutralize the attacks in the projects, students learn: How computer systems and networks operate How to reverse-engineer processes How to use systems in ways that were never foreseen (or supported) by the original developers Combining hands-on work with technical overviews, this text helps you integrate security analysis into your

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technical computing curriculum. It will educate your students on security issues, such as side-channel attacks, and deepen their understanding of how computers and networks work.

This comprehensive guide exposes the security risks and vulnerabilities of computer networks and networked devices, offering advice on developing improved algorithms and best practices for enhancing system security. Fully revised and updated, this new edition embraces a broader view of computer networks that encompasses agile mobile systems and social networks. Features: provides supporting material for lecturers and students,

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including an instructor's manual, slides, solutions, and laboratory materials; includes both quick and more thought-provoking exercises at the end of each chapter; devotes an entire chapter to laboratory exercises; discusses flaws and vulnerabilities in computer network infrastructures and protocols; proposes practical and efficient solutions to security issues; explores the role of legislation, regulation, and law enforcement in maintaining computer and computer network security; examines the impact of developments in virtualization, cloud computing, and mobile systems.