

Online Library Information
Security Principles And
Practice

Information Security Principles And Practice

This is a monumental reference for the theory and practice of computer

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security. Comprehensive in scope, this text covers applied and practical elements, theory, and the reasons for the design of applications and security techniques. It covers both the management and the engineering issues of computer security. It provides

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excellent examples of ideas and mechanisms that demonstrate how disparate techniques and principles are combined in widely-used systems. This book is acclaimed for its scope, clear and lucid writing, and its combination of formal and theoretical aspects with

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real systems, technologies, techniques, and policies.

Homeland Security: An Introduction to Principles and Practice, Fourth Edition continues its record of providing a fully updated, no-nonsense textbook to reflect the latest policy,

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operational, and program changes to the Department of Homeland Security (DHS) over the last several years. The blend of theory with practical application instructs students on how to understand the need to reconcile policy and operational philosophy with the

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real-world use of technologies and implementation of practices. The new edition is completely updated to reflect changes to both new challenges and continually changing considerations. This includes facial recognition, intelligence gathering techniques,

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information sharing databases, white supremacy, domestic terrorism and lone wolf actors, border security and immigration, the use of drones and surveillance technology, cybersecurity, the status of ISIS and Al Qaeda, the increased nuclear threat, COVID-19,

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ICE, DACA, and immigration policy challenges. Consideration of, and the coordinated response, to all these and more is housed among a myriad of federal agencies and departments.

Features • Provides the latest organizational changes, restructures,

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and policy developments in DHS •
Outlines the role of multi-jurisdictional agencies—this includes stakeholders at all levels of government relative to the various intelligence community, law enforcement, emergency managers, and private sector agencies • Presents

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a balanced approach to the challenges the federal and state government agencies are faced with in emergency planning and preparedness, countering terrorism, and critical infrastructure protection • Includes full regulatory and oversight legislation passed since

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the last edition, as well as updates on the global terrorism landscape and prominent terrorist incidents, both domestic and international • Highlights emerging, oftentimes controversial, topics such as the use of drones, border security and

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immigration, surveillance technologies,
and pandemic planning and response

- Contains extensive pedagogy including learning objectives, sidebar boxes, chapter summaries, end of chapter questions, Web links, and references for ease in comprehension

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Homeland Security, Fourth Edition continues to serve as the comprehensive and authoritative text on homeland security. The book presents the various DHS state and federal agencies and entities within the government—their role, how they

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operate, their structure, and how they interact with other agencies—to protect U.S. domestic interests from various dynamic threats. Ancillaries including an Instructor's Manual with Test Bank and chapter PowerPoint™ slides for classroom presentation are

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also available for this book and can be provided for qualified course instructors. Charles P. Nemeth is a recognized expert in homeland security and a leader in the private security industry, private sector justice, and homeland security education. He has

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more than 45 book publications and is currently Chair of the Department of Security, Fire, and Emergency Management at John Jay College in New York City.

This book provides professionals with the necessary managerial, technical,

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and legal background to support investment decisions in security technology. It discusses security from the perspective of hackers (i.e., technology issues and defenses) and lawyers (i.e., legal issues and defenses). This cross-disciplinary book is designed

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to help users quickly become current on what has become a fundamental business issue. This book covers the entire range of best security practices—obtaining senior management commitment, defining information security goals and policies,

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transforming those goals into a strategy for monitoring intrusions and compliance, and understanding legal implications. Topics also include computer crime, electronic evidence, cyber terrorism, and computer forensics. For professionals in

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information systems, financial accounting, human resources, health care, legal policy, and law. Because neither technical nor legal expertise is necessary to understand the concepts and issues presented, this book can be required reading for everyone as part

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of an enterprise-wide computer security awareness program.

When strange animals land in Red's yard, he and his friend Slim agree to keep it to themselves. The creatures are unlike any that they've ever seen before, and are - to them - animals that

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would make a fortune putting on a show at the circus. All the while, their fathers are fretting over the arrival of interstellar diplomats, on whose trade their civilisation may have to rely on to survive. Despite the urgency of the mission, however, neither hide nor hair

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of them have been seen...

An Introduction to Principles and
Practice

Principles of Information Security

Cryptography and Network Security
Computers at Risk

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Everything you need to know about modern network attacks and defense, in one book Clearly explains core network security concepts, challenges, technologies, and skills Thoroughly updated for the latest attacks and countermeasures The

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perfect beginner's guide for anyone interested in a network security career. Security is the IT industry's hottest topic—and that's where the hottest opportunities are, too. Organizations desperately need professionals who can help them safeguard

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against the most sophisticated attacks ever created—attacks from well-funded global criminal syndicates, and even governments. Today, security begins with defending the organizational network. Network Defense and Countermeasures,

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Second Edition is today's most complete, easy-to-understand introduction to modern network attacks and their effective defense. From malware and DDoS attacks to firewalls and encryption, Chuck Easttom blends theoretical foundations with up-to-

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the-minute best-practice techniques. Starting with the absolute basics, he discusses crucial topics many security books overlook, including the emergence of network-based espionage and terrorism. ¿ If you have a basic understanding of

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networks, that's all the background you'll need to succeed with this book: no math or advanced computer science is required. You'll find projects, questions, exercises, case studies, links to expert resources, and a complete glossary—all

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designed to deepen your understanding and prepare you to defend real-world networks. ¿
Learn how to Understand essential network security concepts, challenges, and careers
Learn how modern attacks work
Discover how firewalls, intrusion

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detection systems (IDS), and virtual private networks (VPNs) combine to protect modern networks. Select the right security technologies for any network environment. Use encryption to protect information. Harden Windows and Linux systems and

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keep them patched Securely
configure web browsers to resist
attacks Defend against malware
Define practical, enforceable
security policies Use the "6 Ps" to
assess technical and human
aspects of system security Detect
and fix system vulnerability Apply

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proven security standards and models, including Orange Book, Common Criteria, and Bell-LaPadula Ensure physical security and prepare for disaster recovery Know your enemy: learn basic hacking, and see how to counter it Understand standard forensic

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techniques and prepare for investigations of digital crime & Special Features: "Includes a new chapter on network security "Elaborates design principles for cryptography" Covers topics on various types of malware" Discusses about hackers

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perspective of security assessments"Provides practical aspects of operating system security"Presents numerous figures and tables, simplifying key concepts"Includes problems ranging from basic to complex"Suggests

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countermeasure for various network vulnerabilities" The book initially covered topics on Crypto, but with the addition of a chapter on network security, its becomes complete and can be referred to as a text globally."Strictly as per the latest syllabus of Mumbai

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University About The Book: Stamp
s Information Security: Principles
and Practice is a must-have book,
designed for undergraduate
students of computer science and
information technology of Indian
universities. The book presents
information and network security

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concepts and practice in an easy and reader-friendly style. This comprehensive text takes a practical approach to information security by focusing on real-world examples. Academics, researchers and professionals working in the field of information

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and network security will also find the text very useful.

Computer Security Principles and Practice Pearson

This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come

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packaged with the bound book. The Principles and Practice of Cryptography and Network Security Stallings' Cryptography and Network Security, Seventh Edition, introduces the reader to the compelling and evolving field of cryptography and network

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security. In an age of viruses and hackers, electronic eavesdropping, and electronic fraud on a global scale, security is paramount. The purpose of this book is to provide a practical survey of both the principles and practice of cryptography and

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network security. In the first part of the book, the basic issues to be addressed by a network security capability are explored by providing a tutorial and survey of cryptography and network security technology. The latter part of the book deals with the

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practice of network security:
practical applications that have
been implemented and are in use
to provide network security. The
Seventh Edition streamlines
subject matter with new and
updated material — including
Sage, one of the most important

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features of the book. Sage is an open-source, multiplatform, freeware package that implements a very powerful, flexible, and easily learned mathematics and computer algebra system. It provides hands-on experience with cryptographic

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algorithms and supporting homework assignments. With Sage, the reader learns a powerful tool that can be used for virtually any mathematical application. The book also provides an unparalleled degree of support for the reader to

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ensure a successful learning
experience.

Principles and Practices

Network and Internetwork

Security

Learning How to Learn

Six Lectures on Painting Delivered

on the Scammon Foundation at

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the Art Institute of Chicago in the
Year 1911

Safe Computing in the
Information Age

Computer Security: Principles and
Practice, 2e, is ideal for courses in
Computer/Network Security. In recent
years, the need for education in computer

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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

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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 winner of the Textbook Excellence Award for the best Computer Science

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textbook of 2008.

Information Security: Principles and Practices, Second Edition Everything You Need to Know About Modern Computer Security, in One Book Clearly explains all facets of information security in all 10 domains of the latest Information Security Common Body of

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Knowledge [(ISC)² CBK]. Thoroughly updated for today's challenges, technologies, procedures, and best practices. The perfect resource for anyone pursuing an IT security career. Fully updated for the newest technologies and best practices, Information Security: Principles and Practices, Second Edition

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thoroughly covers all 10 domains of today's Information Security Common Body of Knowledge. Two highly experienced security practitioners have brought together all the foundational knowledge you need to succeed in today's IT and business environments. They offer easy-to-understand, practical coverage of

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topics ranging from security management and physical security to cryptography and application development security. This edition fully addresses new trends that are transforming security, from cloud services to mobile applications, "Bring Your Own Device" (BYOD) strategies to today's increasingly rigorous compliance

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requirements. Throughout, you'll find updated case studies, review questions, and exercises—all designed to reveal today's real-world IT security challenges and help you overcome them. Learn how to -- Recognize the evolving role of IT security -- Identify the best new opportunities in the field -- Discover

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today's core information security principles of success -- Understand certification programs and the CBK -- Master today's best practices for governance and risk management -- Architect and design systems to maximize security -- Plan for business continuity -- Understand the legal, investigatory, and

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ethical requirements associated with IT security -- Improve physical and operational security -- Implement effective access control systems -- Effectively utilize cryptography -- Improve network and Internet security -- Build more secure software -- Define more effective security policies and

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standards -- Preview the future of information security

Over the past few years, Internet of Things has brought great changes to the world. Reports show that, the number of IoT devices is expected to reach 10 billion units within the next three years. The number will continue to rise and wildly

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use as infrastructure and housewares with each passing day, Therefore, ensuring the safe and stable operation of IoT devices has become more important for IoT manufacturers. Generally, four key aspects are involved in security risks when users use typical IoT products such as routers, smart speakers, and in-car

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entertainment systems, which are cloud, terminal, mobile device applications, and communication data. Security issues concerning any of the four may lead to the leakage of user sensitive data.

Another problem is that most IoT devices are upgraded less frequently, which leads it is difficult to resolve legacy security

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risks in short term. In order to cope with such complex security risks, Security Companies in China, such as Qihoo 360, Xiaomi, Alibaba and Tencent, and companies in United States, e.g. Amazon, Google, Microsoft and some other companies have invested in security teams to conduct research and analyses,

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the findings they shared let the public become more aware of IoT device security-related risks. Currently, many IoT product suppliers have begun hiring equipment evaluation services and purchasing security protection products. As a direct participant in the IoT ecological security research project, I

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would like to introduce the book to anyone who is a beginner that is willing to start the IoT journey, practitioners in the IoT ecosystem, and practitioners in the security industry. This book provides beginners with key theories and methods for IoT device penetration testing; explains various tools and techniques for

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hardware, firmware and wireless protocol analysis; and explains how to design a secure IoT device system, while providing relevant code details.

A surprisingly simple way for students to master any subject--based on one of the world's most popular online courses and the bestselling book A Mind for Numbers

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A Mind for Numbers and its wildly popular online companion course "Learning How to Learn" have empowered more than two million learners of all ages from around the world to master subjects that they once struggled with. Fans often wish they'd discovered these learning strategies

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earlier and ask how they can help their kids master these skills as well. Now in this new book for kids and teens, the authors reveal how to make the most of time spent studying. We all have the tools to learn what might not seem to come naturally to us at first--the secret is to understand how the brain works so we

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can unlock its power. This book explains:

- Why sometimes letting your mind wander is an important part of the learning process
- How to avoid "rut think" in order to think outside the box
- Why having a poor memory can be a good thing
- The value of metaphors in developing understanding
- A simple, yet

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powerful, way to stop procrastinating
Filled with illustrations, application
questions, and exercises, this book makes
learning easy and fun.

Computer and Cyber Security
Principles and Practice of Information
Security

Principles and Practice

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Deepfakes

Principles and Practice Guide

**Uncover everything you
need to know about
"deepfakes" and what
could become the biggest
information and**

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communications meltdown
in world history. In a
world of deepfakes, it
will soon be impossible
to tell what is real and
what isn't. As advances
in artificial

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intelligence, video
creation, and online
trolling continue,
deepfakes pose not only
a real threat to
democracy -- they
threaten to take voter

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manipulation to
unprecedented new
heights. This crisis of
misinformation which we
now face has since been
dubbed the
"Infocalypse." In

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DEEPFAKES, investigative journalist Nina Schick uses her expertise from working in the field to reveal shocking examples of deepfakery and explain the dangerous

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political consequences
of the Infocalypse, both
in terms of national
security and what it
means for public trust
in politics. This all-
too-timely book also

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unveils what this all means for us as individuals, how deepfakes will be used to intimidate and to silence, for revenge and fraud, and just how

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truly unprepared
governments and tech
companies are for what's
coming.

Stallings provides a
survey of the principles
and practice of

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cryptography and network security. This edition has been updated to reflect the latest developments in the field. It has also been extensively reorganized

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to provide the optimal
sequence for classroom
instruction and self-
study.

All the Knowledge You
Need to Build
Cybersecurity Programs

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and Policies That Work
Clearly presents best
practices, governance
frameworks, and key
standards Includes
focused coverage of
healthcare, finance, and

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PCI DSS compliance An
essential and invaluable
guide for leaders,
managers, and technical
professionals Today,
cyberattacks can place
entire organizations at

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risk. Cybersecurity can no longer be delegated to specialists: success requires everyone to work together, from leaders on down.

Developing Cybersecurity

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Programs and Policies
offers start-to-finish
guidance for
establishing effective
cybersecurity in any
organization. Drawing on
more than 20 years of

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real-world experience,
Omar Santos presents
realistic best practices
for defining policy and
governance, ensuring
compliance, and
collaborating to harden

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the entire organization.
First, Santos shows how
to develop workable
cybersecurity policies
and an effective
framework for governing
them. Next, he addresses

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risk management, asset management, and data loss prevention, showing how to align functions from HR to physical security. You'll discover best practices

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for securing
communications,
operations, and access;
acquiring, developing,
and maintaining
technology; and
responding to incidents.

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Santos concludes with detailed coverage of compliance in finance and healthcare, the crucial Payment Card Industry Data Security Standard (PCI DSS)

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standard, and the NIST
Cybersecurity Framework.
Whatever your current
responsibilities, this
guide will help you
plan, manage, and lead
cybersecurity—and

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safeguard all the assets
that matter. Learn How
To . Establish
cybersecurity policies
and governance that
serve your
organization's needs .

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Integrate cybersecurity program components into a coherent framework for action . Assess, prioritize, and manage security risk throughout the organization .

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**Manage assets and
prevent data loss · Work
with HR to address human
factors in cybersecurity
· Harden your facilities
and physical environment
· Design effective**

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policies for securing
communications,
operations, and access .
Strengthen security
throughout the
information systems
lifecycle . Plan for

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quick, effective
incident response and
ensure business
continuity . Comply with
rigorous regulations in
finance and healthcare .
Plan for PCI compliance

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to safely process
payments . Explore and
apply the guidance
provided by the NIST
Cybersecurity Framework
Computers at Risk
presents a comprehensive

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agenda for developing nationwide policies and practices for computer security. Specific recommendations are provided for industry and for government

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agencies engaged in
computer security
activities. The volume
also outlines problems
and opportunities in
computer security
research, recommends

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ways to improve the research infrastructure, and suggests topics for investigators. The book explores the diversity of the field, the need to engineer

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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

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enhanced security systems, how innovators could be encouraged to bring more options to the marketplace, and balancing the importance of security against the

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right of privacy.

How to Succeed in School
Without Spending All
Your Time Studying; A
Guide for Kids and Teens
Youth

Network Security

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Principles and Practices

Art and Science

The Essential Guide to

Computer Security

***For courses in computer/network
security Balancing principle and
practice-an updated survey of***

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Practice

***the fast-moving world of
computer and network security
Computer Security: Principles
and Practice, 4th Edition, is ideal
for courses in Computer/Network
Security. The need for education
in computer security and related***

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topics continues to grow at a dramatic rate-and is essential for anyone studying Computer Science or Computer Engineering. Written for both an academic and professional audience, the 4th Edition

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continues to set the standard for computer security with a balanced presentation of principles and practice. The new edition captures the most up-to-date innovations and improvements while maintaining

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broad and comprehensive coverage of the entire field. The extensive offering of projects provides hands-on experience to reinforce concepts from the text. The range of supplemental online resources for instructors

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provides additional teaching support for this fast-moving subject. The new edition covers all security topics considered Core in the ACM/IEEE Computer Science Curricula 2013, as well as subject areas for CISSP

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(Certified Information Systems Security Professional) certification. This textbook can be used to prep for CISSP Certification and is often referred to as the 'gold standard' when it comes to information security

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certification. The text provides in-depth coverage of Computer Security, Technology and Principles, Software Security, Management Issues, Cryptographic Algorithms, Internet Security and more.

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There are few textbooks available that outline the foundation of security principles while reflecting the modern practices of private security as an industry. Private Security: An Introduction to Principles and

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Practice takes a new approach to the subject of private sector security that will be welcome addition to the field. The book focuses on the recent history of the industry and the growing dynamic between private sector

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security and public safety and law enforcement. Coverage will include history and security theory, but emphasis is on current practice, reflecting the technology-driven, fast-paced, global security environment.

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Such topics covered include a history of the security industry, security law, risk management, physical security, Human Resources and personnel, investigations, institutional and industry-specific security, crisis

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and emergency planning, critical infrastructure protection, IT and computer security, and more. Rather than being reduced to single chapter coverage, homeland security and terrorism concepts are referenced

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throughout the book, as appropriate. Currently, it vital that private security entities work with public sector authorities seamlessly—at the state and federal levels—to share information and understand

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emerging risks and threats. This modern era of security requires an ongoing, holistic focus on the impact and implications of global terror incidents; as such, the book's coverage of topics consciously takes this approach

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***throughout. Highlights include:
Details the myriad changes in
security principles, and the
practice of private security,
particularly since 9/11 Focuses
on both foundational theory but
also examines current best***

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practices—providing sample forms, documents, job descriptions, and functions—that security professionals must understand to perform and succeed
Outlines the distinct, but growing, roles of private

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***sector security companies
versus the expansion of federal
and state law enforcement
security responsibilities Includes
key terms, learning objectives,
end of chapter questions, Web
exercises, and numerous***

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references—throughout the book—to enhance student learning Presents the full range of career options available for those looking entering the field of private security Includes nearly 400 full-color figures,

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***illustrations, and photographs.
Private Security: An Introduction
to Principles and Practice
provides the most
comprehensive, up-to-date
coverage of modern security
issues and practices on the***

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market. Professors will appreciate the new, fresh approach, while students get the most "bang for their buck," insofar as the real-world knowledge and tools needed to tackle their career in the ever-

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growing field of private industry security. An instructor's manual with Exam questions, lesson plans, and chapter PowerPoint® slides are available upon qualified course adoption. In today OCOs technology-driven

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environment, there is an ever-increasing demand for information delivery. A compromise has to be struck between security and availability. This book is a pragmatic guide to information assurance for both

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business professionals and technical experts. This second edition includes the security of cloud-based resources."

Now updated—your expert guide to twenty-first century information security Information

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security is a rapidly evolving field. As businesses and consumers become increasingly dependent on complex multinational information systems, it is more imperative than ever to protect the

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confidentiality and integrity of data. Featuring a wide array of new information on the most current security issues, this fully updated and revised edition of Information Security: Principles and Practice provides the skills

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and knowledge readers need to tackle any information security challenge. Taking a practical approach to information security by focusing on real-world examples, this book is organized around four major themes:

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Cryptography: classic cryptosystems, symmetric key cryptography, public key cryptography, hash functions, random numbers, information hiding, and cryptanalysis Access control: authentication and

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authorization, password-based security, ACLs and capabilities, multilevel security and compartments, covert channels and inference control, security models such as BLP and Biba's model, firewalls, and intrusion

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***detection systems Protocols:
simple authentication protocols,
session keys, perfect forward
secrecy, timestamps, SSH, SSL,
IPSec, Kerberos, WEP, and GSM
Software: flaws and malware,
buffer overflows, viruses and***

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***worms, malware detection,
software reverse engineering,
digital rights management,
secure software development,
and operating systems security
This Second Edition features
new discussions of relevant***

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security topics such as the SSH and WEP protocols, practical RSA timing attacks, botnets, and security certification. New background material has been added, including a section on the Enigma cipher and coverage of

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the classic "orange book" view of security. Also featured are a greatly expanded and upgraded set of homework problems and many new figures, tables, and graphs to illustrate and clarify complex topics and problems. A

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comprehensive solutions manual is available to assist in course development. Minimizing theory while providing clear, accessible content, Information Security remains the premier text for students and instructors in

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***information technology,
computer science, and
engineering, as well as for
professionals working in these
fields.***

***Network Defense and
Countermeasures***

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***Internet of Things Security
Protecting Computers from
Hackers and Lawyers
Cyber Security Education
A Guide to the Project
Management Body of Knowledge
(PMBOK® Guide) – Seventh***

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***Edition and The Standard for
Project Management (BRAZILIAN
PORTUGUESE)***

The future of Internet security doesn't lie in doing more of the same. It requires not only a new architecture, but the means of

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securing that architecture. Two trends have come together to make the topic of this book of vital interest. First, the explosive growth of the Internet connections for the exchange of information via networks increased the dependence of both organizations

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and individuals on the systems stored and communicated. This, in turn, has increased the awareness for the need to protect the data and add security as chief ingredient in the newly emerged architectures. Second, the disciplines of cryptography and network security

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have matured and are leading to the development of new techniques and protocols to enforce the network security in Future Internet. This book examines the new security architectures from organizations such as FIArch, GENI, and IETF and how

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they , It contribute to a more secure Internet.

PMBOK® Guide is the go-to resource for project management practitioners. The project management profession has significantly evolved due to emerging

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technology, new approaches and rapid market changes. Reflecting this evolution, The Standard for Project Management enumerates 12 principles of project management and the PMBOK® Guide – Seventh Edition is structured around eight

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project performance domains. This edition is designed to address practitioners' current and future needs and to help them be more proactive, innovative and nimble in enabling desired project outcomes. This edition of the

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PMBOK® Guide: • Reflects the full range of development approaches (predictive, adaptive, hybrid, etc.); • Provides an entire section devoted to tailoring the development approach and processes; • Includes an expanded list of models, methods,

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and artifacts; • Focuses on not just delivering project outputs but also enabling outcomes; and • Integrates with PMI standards+™ for information and standards application content based on project type, development approach, and

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industry sector.

Your expert guide to information security As businesses and consumers become more dependent on complexmultinational information systems, the need to understand anddevise sound information security

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systems has never been greater. This title takes a practical approach to information security by focusing on real-world examples. While not sidestepping the theory, the emphasis is on developing the skills and knowledge that security and

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information technology students and professionals need to face their challenges. The book is organized around four major themes: *

Cryptography: classic cryptosystems, symmetric key cryptography, public key cryptography, hash functions,

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random numbers, information hiding,
and cryptanalysis * Access control:
authentication and authorization,
password-based security, ACLs and
capabilities, multilevel and
multilateral security, covert channels
and inference control, BLP and

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Biba's models, firewalls, and intrusion detection systems * Protocols: simple authentication protocols, session keys, perfect forward secrecy, timestamps, SSL, IPSec, Kerberos, and GSM * Software: flaws and malware, buffer overflows, viruses and

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worms, software reverse engineering, digital rights management, secure software development, and operating systems security. Additional features include numerous figures and tables to illustrate and clarify complex topics, as well as problems-

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ranging from basic to challenging-to help readers apply their newly developed skills. A solutions manual and a set of classroom-tested PowerPoint(r) slides will assist instructors in their course development. Students and

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professors in information technology, computer science, and engineering, and professionals working in the field will find this reference most useful to solve their information security issues. An Instructor's Manual presenting

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detailed solutions to all the problems in the book is available from the Wiley editorial department. An Instructor Support FTP site is also available.

Expert solutions for securing network infrastructures and VPNs Build

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security into the network by defining zones, implementing secure routing protocol designs, and building safe LAN switching environments

Understand the inner workings of the Cisco PIX Firewall and analyze in-depth Cisco PIX Firewall and Cisco

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IOS Firewall features and concepts
Understand what VPNs are and how
they are implemented with protocols
such as GRE, L2TP, and IPSec Gain a
packet-level understanding of the
IPSec suite of protocols, its associated
encryption and hashing functions,

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and authentication techniques Learn how network attacks can be categorized and how the Cisco IDS is designed and can be set up to protect against them Control network access by learning how AAA fits into the Cisco security model and by

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implementing RADIUS and
TACACS+ protocols Provision
service provider security using ACLs,
NBAR, and CAR to identify and
control attacks Identify and resolve
common implementation failures by
evaluating real-world troubleshooting

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scenarios As organizations increase their dependence on networks for core business processes and increase access to remote sites and mobile workers via virtual private networks (VPNs), network security becomes more and more critical. In today's

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networked era, information is an organization's most valuable resource. Lack of customer, partner, and employee access to e-commerce and data servers can impact both revenue and productivity. Even so, most networks do not have the proper

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degree of security. Network Security Principles and Practices provides an in-depth understanding of the policies, products, and expertise that brings organization to this extremely complex topic and boosts your confidence in the performance and

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integrity of your network systems and services. Written by the CCIE engineer who wrote the CCIE Security lab exam and who helped develop the CCIE Security written exam, Network Security Principles and Practices is the first book to help

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prepare candidates for the CCIE Security exams. Network Security Principles and Practices is a comprehensive guide to network security threats and the policies and tools developed specifically to combat those threats. Taking a practical,

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applied approach to building security into networks, the book shows you how to build secure network architectures from the ground up. Security aspects of routing protocols, Layer 2 threats, and switch security features are all analyzed. A

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comprehensive treatment of VPNs and IPSec is presented in extensive packet-by-packet detail. The book takes a behind-the-scenes look at how the Cisco PIX(r) Firewall actually works, presenting many difficult-to-understand and new Cisco PIX

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Firewall and Cisco IOS(r) Firewall concepts. The book launches into a discussion of intrusion detection systems (IDS) by analyzing and breaking down modern-day network attacks, describing how an IDS deals with those threats in general, and

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elaborating on the Cisco implementation of IDS. The book also discusses AAA, RADIUS, and TACACS+ and their usage with some of the newer security implementations such as VPNs and proxy authentication. A complete section

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devoted to service provider techniques for enhancing customer security and providing support in the event of an attack is also included. Finally, the book concludes with a section dedicated to discussing tried-and-tested troubleshooting tools and

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techniques that are not only invaluable to candidates working toward their CCIE Security lab exam but also to the security network administrator running the operations of a network on a daily basis.

Faith and Reason

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Information Security Management
Principles

Water Security

Homeland Security

The Classic Point of View

The purpose of this book is
to present an overview of

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the latest research, policy, practitioner, academic and international thinking on water security—an issue that, like water governance a few years ago, has developed much policy awareness and momentum with

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a wide range of stakeholders. As a concept it is open to multiple interpretations, and the authors here set out the various approaches to the topic from different perspectives. Key themes

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addressed include: Water security as a foreign policy issue The interconnected variables of water, food, and human security Dimensions other than military and international relations concerns around

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water security Water security theory and methods, tools and audits. The book is loosely based on a masters level degree plus a short professional course on water security both given at the University of East

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Anglia, delivered by international authorities on their subjects. It should serve as an introductory textbook as well as be of value to professionals, NGOs, and policy-makers. Description-The book has

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been written in such a way that the concepts are explained in detail, giving adequate emphasis on examples. To make clarity on the topic, diagrams are given extensively throughout the text. Various questions

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are included that vary widely in type and difficulty to understand the text. This text is user-focused and has been highly updated including topics, pictures and examples. The book features the most

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current research findings in all aspects of information Security. From successfully implementing technology change to understanding the human factors in IT utilization, these volumes address many of the core

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concepts and organizational applications, implications of information technology in organizations. Key Features A* Comprehensive coverage of various aspects of cyber security concepts. A* Simple language, crystal clear

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approach, straight forward
comprehensible presentation.

A* Adopting user-friendly
classroom lecture style. A*

The concepts are duly
supported by several
examples. A* Previous years
question papers are also

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included. A* The important set of questions comprising of more than 90 questions with short answers are also included. Table of Contents:Chapter-1 : Introduction to Information SystemsChapter-2 :

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Information
SecurityChapter-3 :

Application

SecurityChapter-4 : Security

ThreatsChapter-5 :

Development of secure

Information SystemChapter-6

: Security Issues In

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Hardware Chapter-7 : Security
Policies Chapter-8 :
Information Security
Standards

This glossary provides a
central resource of
definitions most commonly
used in Nat. Institute of

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Standards and Technology
(NIST) information security
publications and in the
Committee for National
Security Systems (CNSS)
information assurance
publications. Each entry in
the glossary points to one

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or more source NIST publications, and/or CNSSI-4009, and/or supplemental sources where appropriate. This is a print on demand edition of an important, hard-to-find publication.

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The Internet of Things (IoT), with its technological advancements and massive innovations, is building the idea of inter-connectivity among everyday life objects. With an explosive growth in the

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number of Internet-connected devices, the implications of the idea of IoT on enterprises, individuals, and society are huge. IoT is getting attention from both academia and industry due to its powerful real-time

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applications that raise demands to understand the entire spectrum of the field. However, due to increasing security issues, safeguarding the IoT ecosystem has become an important concern. With

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devices and information becoming more exposed and leading to increased attack possibilities, adequate security measures are required to leverage the benefits of this emerging concept. Internet of Things

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Security: Principles, Applications, Attacks, and Countermeasures is an extensive source that aims at establishing an understanding of the core concepts of IoT among its readers and the challenges

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and corresponding countermeasures in the field. Key features: Containment of theoretical aspects, as well as recent empirical findings associated with the underlying technologies

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Exploration of various challenges and trade-offs associated with the field and approaches to ensure security, privacy, safety, and trust across its key elements Vision of exciting areas for future research in

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the field to enhance the overall productivity This book is suitable for industrial professionals and practitioners, researchers, faculty members, and students across universities who aim to carry out

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research and development in
the field of IoT security.

Introduction to Machine

Learning with Applications

in Information Security

Principles, Perspectives and

Practices

Principles and Issues

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Occupational Outlook
Handbook

MARK STAMP'S INFORMATION
SECURITY: PRINCIPLES AND
PRACTICE

Specifically oriented to the needs of
information systems students,

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PRINCIPLES OF INFORMATION SECURITY, 5e delivers the latest technology and developments from the field. Taking a managerial approach, this bestseller teaches all the aspects of information security-not just the technical control

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perspective. It provides a broad review of the entire field of information security, background on many related elements, and enough detail to facilitate understanding of the topic. It covers the terminology of the field, the history of the

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discipline, and an overview of how to manage an information security program. Current and relevant, the fifth edition includes the latest practices, fresh examples, updated material on technical security controls, emerging legislative issues,

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new coverage of digital forensics, and hands-on application of ethical issues in IS security. It is the ultimate resource for future business decision-makers. Important Notice: Media content referenced within the product description or the product

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text may not be available in the
ebook version.

The Comprehensive Guide to
Computer Security, Extensively
Revised with Newer Technologies,
Methods, Ideas, and Examples In
this updated guide, University of

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California at Davis Computer Security Laboratory co-director Matt Bishop offers clear, rigorous, and thorough coverage of modern computer security. Reflecting dramatic growth in the quantity, complexity, and consequences of

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security incidents, Computer Security, Second Edition, links core principles with technologies, methodologies, and ideas that have emerged since the first edition's publication. Writing for advanced undergraduates, graduate students,

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and IT professionals, Bishop covers foundational issues, policies, cryptography, systems design, assurance, and much more. He thoroughly addresses malware, vulnerability analysis, auditing, intrusion detection, and best-practice

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responses to attacks. In addition to new examples throughout, Bishop presents entirely new chapters on availability policy models and attack analysis. Understand computer security goals, problems, and challenges, and the deep links

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between theory and practice Learn how computer scientists seek to prove whether systems are secure Define security policies for confidentiality, integrity, availability, and more Analyze policies to reflect core questions of trust, and use them

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to constrain operations and change
Implement cryptography as one
component of a wider computer and
network security strategy Use system-
oriented techniques to establish
effective security mechanisms,
defining who can act and what they

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can do Set appropriate security goals for a system or product, and ascertain how well it meets them Recognize program flaws and malicious logic, and detect attackers seeking to exploit them This is both a comprehensive text, explaining the

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most fundamental and pervasive aspects of the field, and a detailed reference. It will help you align security concepts with realistic policies, successfully implement your policies, and thoughtfully manage the trade-offs that inevitably

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arise. Register your book for convenient access to downloads, updates, and/or corrections as they become available. See inside book for details.

Richard Swinburne presents a new edition of the final volume of his

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acclaimed trilogy on philosophical theology. Faith and Reason is a self-standing examination of the implications for religious faith of Swinburne's famous arguments about the coherence of theism and the existence of God. By practising a

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particular religion, a person seeks to achieve some or all of three goals - that he worships and obeys God, gains salvation for himself, and helps others to attain their salvation. But not all religions commend worship, and different religions have different

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conceptions of salvation. Faced with these differences, Richard Swinburne argues that we should practice that religion which has the best goals and is more probably true than the creeds of other religions. He proposes criteria by which to

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determine the probabilities of different religious creeds, and he argues that, while requiring total commitment, faith does not demand fully convinced belief. While maintaining the same structure and conclusions as the original classic,

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this second edition has been substantially rewritten, both in order to relate its ideas more closely to those of classical theologians and philosophers and to respond to more recent views. In particular he discusses, and ultimately rejects, the

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view of Alvin Plantinga that the 'warrant' of a belief depends on the process which produced it, and John Hick's contention that all religions offer valid paths to salvation. This book covers the fundamental principles in Computer Security. Via

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hands-on activities, the book aims to help readers understand the risks with software application and computer system, how various attacks work, what their fundamental causes are, how the countermeasures work, and how to defend against

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them in programs and systems.

Flexible Network Architectures

Security

The Coming Infocalypse

Internet of Things Security:

Principles and Practice

Glossary of Key Information

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Security Terms

Information Security

*Introduction to Machine Learning
with Applications in Information
Security provides a class-tested
introduction to a wide variety of
machine learning algorithms,*

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reinforced through realistic applications. The book is accessible and doesn't prove theorems, or otherwise dwell on mathematical theory. The goal is to present topics at an intuitive level, with just enough detail to

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*clarify the underlying concepts.
The book covers core machine
learning topics in-depth, including
Hidden Markov Models, Principal
Component Analysis, Support
Vector Machines, and Clustering.
It also includes coverage of*

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Nearest Neighbors, Neural Networks, Boosting and AdaBoost, Random Forests, Linear Discriminant Analysis, Vector Quantization, Naive Bayes, Regression Analysis, Conditional Random Fields, and

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Data Analysis. Most of the examples in the book are drawn from the field of information security, with many of the machine learning applications specifically focused on malware. The applications presented are

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designed to demystify machine learning techniques by providing straightforward scenarios. Many of the exercises in this book require some programming, and basic computing concepts are assumed in a few of the

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application sections. However, anyone with a modest amount of programming experience should have no trouble with this aspect of the book. Instructor resources, including PowerPoint slides, lecture videos, and other relevant

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material are provided on an accompanying website: <http://www.cs.sjsu.edu/~stamp/ML/>. For the reader's benefit, the figures in the book are also available in electronic form, and in color.

About the Author Mark Stamp

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*has been a Professor of
Computer Science at San Jose
State University since 2002. Prior
to that, he worked at the National
Security Agency (NSA) for seven
years, and a Silicon Valley
startup company for two years.*

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He received his Ph.D. from Texas Tech University in 1992. His love affair with machine learning began in the early 1990s, when he was working at the NSA, and continues today at SJSU, where he has supervised vast numbers

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*of master's student projects,
most of which involve a
combination of information
security and machine learning.
Discover the latest trends,
developments and technology in
information security today with*

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Whitman/Mattord's market-leading PRINCIPLES OF INFORMATION SECURITY, 7th Edition. Designed specifically to meet the needs of those studying information systems, this edition's balanced focus addresses all

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*aspects of information security,
rather than simply offering a
technical control perspective.
This overview explores important
terms and examines what is
needed to manage an effective
information security program. A*

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new module details incident response and detection strategies. In addition, current, relevant updates highlight the latest practices in security operations as well as legislative issues, information management

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toolsets and digital forensics. Coverage of the most recent policies and guidelines that correspond to federal and international standards further prepare you for success both in information systems and as a

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business decision-maker.

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This book investigates the goals

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and policy aspects of cyber security education in the light of escalating technical, social and geopolitical challenges. The past ten years have seen a tectonic shift in the significance of cyber security education. Once the

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preserve of small groups of dedicated educators and industry professionals, the subject is now on the frontlines of geopolitical confrontation and business strategy. Global shortages of talent have created pressures on

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corporate and national policy for workforce development. Cyber Security Education offers an updated approach to the subject as we enter the next decade of technological disruption and political threats. The contributors

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include scholars and education practitioners from leading research and education centres in Europe, North America and Australia. This book provides essential reference points for education policy on the new

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social terrain of security in cyberspace and aims to reposition global debates on what education for security in cyberspace can and should mean. This book will be of interest to students of cyber

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security, cyber education, international security and public policy generally, as well as practitioners and policy-makers. An updated survey of the fast-moving field of machine and network security, balancing

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*theory and reality The Essential
Guide To Computer Security:
Principles and Practice Guide is
suitable for computer/network
security courses. Data security
and related education are
becoming increasingly important-*

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and is required for anyone pursuing Computer Science or Computer Engineering. Updated aims to set the benchmark for information security with a balanced presentation of principles and experience, written

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for both a scholarly and technical audience. While retaining extensive and thorough coverage of the whole industry, the latest version captures the most up-to-date inventions and enhancements. The several

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projects available have hands-on experience to validate lessons learned in the book. Instructors may use a variety of supplementary online tools to complement their teaching of this fast-paced topic. The latest

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version addresses all security subjects in the ACM/IEEE Computer Science Curricula 2013, as well as CISSP (Certified Information Systems Security Professional) certification subject areas. This textbook is also

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referred to as the "gold standard" in the field of information security certification since it can be used to prepare for the CISSP exam. Computer Security, Technology and Principles, Software Security, Management Issues,

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*Cryptographic Algorithms,
Internet Security, and other topics
are all covered in detail in this
book.*

*Principles and Policies
Fundamentals of Cyber Security
Principles, Algorithm,*

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*Applications, and Perspectives
Computer Security
Private Security*

*For one-semester, undergraduate- or
graduate-level courses in Cryptography,
Computer Security, and Network
Security. The book is suitable for self-*

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study and so provides a solid and up-to-date tutorial. The book is also a comprehensive treatment of cryptography and network security and so is suitable as a reference for a system engineer, programmer, system manager, network manager, product marketing

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*personnel, or system support specialist. ;
A practical survey of cryptography and
network security with unmatched support
for instructors and students ; In this age
of universal electronic connectivity,
viruses and hackers, electronic
eavesdropping, and electronic fraud,*

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security is paramount. This text provides a practical survey of both the principles and practice of cryptography and network security. First, the basic issues to be addressed by a network security capability are explored through a tutorial and survey of cryptography and network

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security technology. Then, the practice of network security is explored via practical applications that have been implemented and are in use today. An unparalleled support package for instructors and students ensures a successful teaching and learning experience.;

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Comprehensive in approach, this introduction to network and internetwork security provides a tutorial survey of network security technology, discusses the standards that are being developed for security in an internetworking environment, and explores the practical

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issues involved in developing security applications.

This text provides a practical survey of both the principles and practice of cryptography and network security.

First, the basic issues to be addressed by a network security capability are

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explored through a tutorial and survey of cryptography and network security technology. Then, the practice of network security is explored via practical applications that have been implemented and are in use today.

Principles, Applications, Attacks, and

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Countermeasures

*Developing Cybersecurity Programs and
Policies*

A Hands-on Approach