

# Analyzing Computer Security: A Threat / Vulnerability / Countermeasure Approach

## Read eBooks PDF English Charles P. Pfleeger & Shari Lawrence Pfleeger



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The Modern Introduction to Computer Security: Understand Threats, Identify Their Causes, and Implement Effective Countermeasures

**Analyzing Computer Security** is a fresh, modern, and relevant introduction to computer security. Organized around today's key attacks, vulnerabilities, and countermeasures, it helps you think critically and creatively about computer security-so you can prevent serious problems and mitigate those that still occur.

In this new book, renowned security and software engineering experts Charles Pfleeger and Shari Lawrence Pfleeger-authors of the classic *Security in Computing, Fourth Edition*-teach security the way modern security professionals approach it: by identifying the people or things that may cause harm, uncovering weaknesses that can be exploited, and showing how to choose and apply the right protections.

Attacks and solutions are presented through nearly 200 illustrations. More than 250 up-to-date problems allow you to practice the skills you learn. The book covers "hot button" issues, such as cloud computing, electronic voting, and cyber warfare. You also gain new insight into broader themes, including risk analysis, human factors, overlapping controls, trust, privacy, ethics, and forensics. One step at a time, the book systematically helps you develop the problem-solving skills needed to safeguard any information infrastructure.

Coverage includes

Understanding the linkages between threats, vulnerabilities, and countermeasures

Knowing when security is useful, and when it's useless "security theater"

Implementing effective identification and authentication systems

Using modern cryptography and overcoming weaknesses in cryptographic systems

Protecting against malicious code: virii, Trojans, worms, buffer overflows, rootkits, keyloggers, and more

Understanding, preventing, and mitigating DOS and DDOS attacks

Architecting more secure wired and wireless networks

Protecting against physical data loss or theft

Building more secure application software and operating systems

Improving security through simpler designs and layered protection

Protecting identities and enforcing privacy

Understanding new security issues associated with social media

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