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Computer Security Basics

Computer Security for the 21st Century

2nd Edition

Computer Security Basics

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Rick Lehtinen, Deborah Russell
& G.T. Gangemi Sr.

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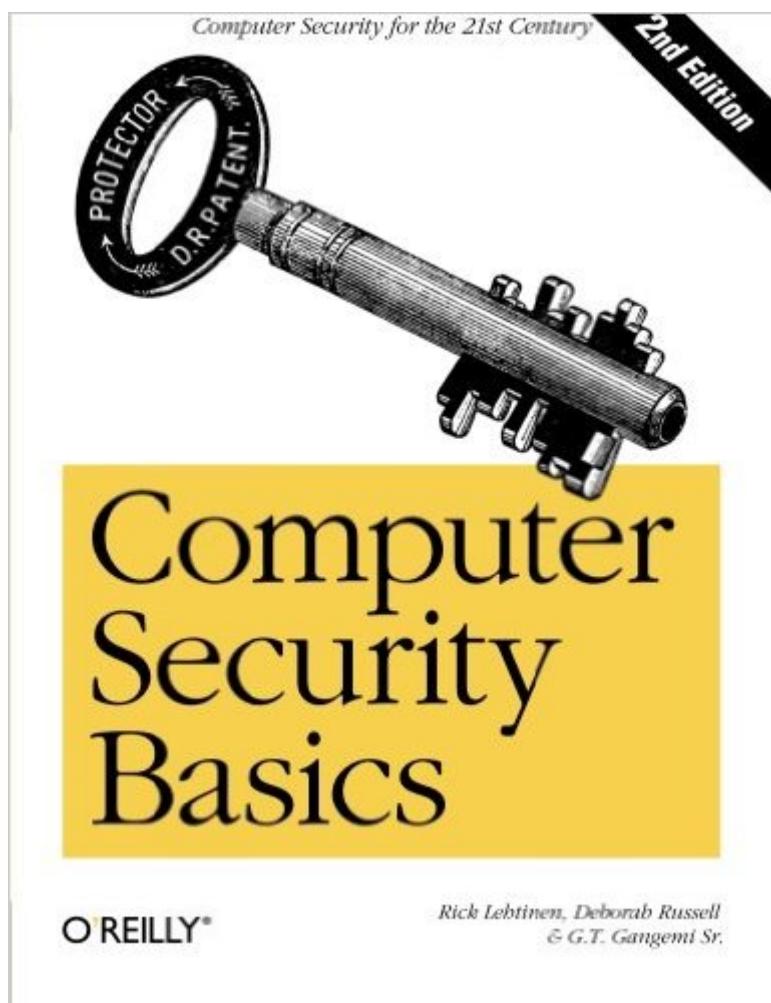
Synopsis

This is the must-have book for a must-know field. Today, general security knowledge is mandatory, and, if you who need to understand the fundamentals, Computer Security Basics 2nd Edition is the book to consult. The new edition builds on the well-established principles developed in the original edition and thoroughly updates that core knowledge. For anyone involved with computer security, including security administrators, system administrators, developers, and IT managers, Computer Security Basics 2nd Edition offers a clear overview of the security concepts you need to know, including access controls, malicious software, security policy, cryptography, biometrics, as well as government regulations and standards. This handbook describes complicated concepts such as trusted systems, encryption, and mandatory access control in simple terms. It tells you what you need to know to understand the basics of computer security, and it will help you persuade your employees to practice safe computing.Topics include:Computer security conceptsSecurity breaches, such as viruses and other malicious programsAccess controlsSecurity policyWeb attacksCommunications and network securityEncryptionPhysical security and biometricsWireless network securityComputer security and requirements of the Orange BookOSI Model and TEMPEST

Book Information

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Customer Reviews

This book is the long awaited second edition of a classic book in basic computer security. It is an introduction to the field, not a technical reference. If you need details on a particular aspect of computer security, you should refer to another more specialized book. Since does not show the

table of contents, I review this book in reference to its table of contents:Part I, SECURITY FOR TODAYChapter 1, IntroductionIntroduces computer security: what it is and why it's important. It summarizes the threats to computers and the information stored on them, and it introduces the different types of computer security. It notes that if you ignore computer security you could not only be a crime victim but an unwitting partner in crime.Chapter 2, Some Security HistoryDescribes how we got to where we are today. It summarizes key events in the history of computer security, discusses some of the government standards and programs involved with computer security, and introduces the concept of computer databases and the preservation of privacy.Part II, COMPUTER SECURITYChapter 3, Computer System Security and Access ControlsIntroduces computer system security and describes how it controls access to systems and data.Chapter 4, Viruses and Other WildlifeExplores viruses, worms, Trojans, and other types of malicious code. The financial effects of malicious programs are discussed first, including that of wasted time. Next it equates viruses and public health - in that once your computer is infected others can be too using your computer as a jumping off point.

It still surprises me how many of my information technology colleagues still have no clue when it comes to computer security. This particular book is one I'd feel really good about when it comes to a recommendation to get them up to speed on the subject... Computer Security Basics (2nd Edition) by Rick Lehtinen, Deborah Russell, and G. T. Gangemi Sr.Contents:Part 1 - Security for Today: Introduction; Some Security HistoryPart 2 - Computer Security: Computer System Security and Access Controls; Viruses and Other Wildlife; Establishing and Maintaining a Security Policy; Web Attacks and Internet VulnerabilitiesPart 3 - Communications Security: Encryption; Communications and Network SecurityPart 4 - Other Types of Security: Physical Security and Biometrics; Wireless Network SecurityPart 5 - Appendixes: OSI Model; TEMPEST; The Orange Book, FIPS PUBS, and the Common CriteriaIndexWhile not a technical "how to" manual, this book does a great job in dealing with technical issues and concepts. Pretty much all the significant issues surrounding computer and technology security these days is covered in sufficient detail to allow for a functional understanding of the topics. For instance, the chapter on viruses would allow even the most clueless techie to grasp the problems. The authors distinguish between viruses, worms, trojan horses, bombs, and other various nasty surprises. The history is valuable to understand how we got into this condition, and by the end of the chapter you'll know what you need to do to start to combat the problem. From there, you can dive into the more technical details of any one of the areas that pertain to your particular situation.

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