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Matt Bishop is a professor in the Department of Computer Science at the University of California at Davis. A

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recognized expert in vulnerability analysis, secure systems/software design, network security, access control, authentication, and UNIX security, Bishop also works to improve computer security instruction.

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A second edition of my book *Computer Security: Art and Science* was published in November 2018. Another version of the first edition, *Introduction to Computer Security*, was published in 2004, again by Addison-Wesley Professional. Check them out and see which you prefer. Graduate Admissions.

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Matt Bishop is a professor in the

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Department of Computer Science at the University of California at Davis. His main research interest is the analysis of vulnerabilities in computer systems, including modeling them, building tools to detect vulnerabilities, and ameliorating or eliminating them.

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Matt Bishop is a professor in the Department of Computer Science at the University of California at Davis. His main research interest is the analysis of

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Human factors and usability issues have traditionally played a limited role in security research and secure systems development. Security experts have largely ignored usability issues--both because they often

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failed to recognize the importance of human factors and because they lacked the expertise to address them. But there is a growing recognition that today's security problems can be solved only by addressing issues of usability and human factors. Increasingly, well-publicized security breaches are attributed to human errors that might have

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been prevented through more usable software. Indeed, the world's future cybersecurity depends upon the deployment of security technology that can be broadly used by untrained computer users. Still, many people believe there is an inherent tradeoff between computer security and usability. It's true that a computer without passwords is

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usable, but not very secure. A computer that makes you authenticate every five minutes with a password and a fresh drop of blood might be very secure, but nobody would use it. Clearly, people need computers, and if they can't use one that's secure, they'll use one that isn't. Unfortunately, unsecured systems aren't usable for long, either. They

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get hacked, compromised, and otherwise rendered useless. There is increasing agreement that we need to design secure systems that people can actually use, but less agreement about how to reach this goal. Security & Usability is the first book-length work describing the current state of the art in this emerging field. Edited by security

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sparked the field of security and usability.

This book is expected to start an avalanche of discussion, new ideas, and further advances in this important field.

This book explores fundamental principles for securing IT systems and illustrates them with hands-on experiments that may be

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carried out by the reader using accompanying software. The experiments highlight key information security problems that arise in modern operating systems, networks, and web applications. The authors explain how to identify and exploit such problems and they show different countermeasures and their implementation.

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The reader thus gains a detailed understanding of how vulnerabilities arise and practical experience tackling them.

After presenting the basics of security principles, virtual environments, and network services, the authors explain the core security principles of authentication and access control, logging and log analysis,

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web application security, certificates and public-key cryptography, and risk management. The book concludes with appendices on the design of related courses, report templates, and the basics of Linux as needed for the assignments. The authors have successfully taught IT security to students and professionals using the content

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of this book and the laboratory setting it describes. The book can be used in undergraduate or graduate laboratory courses, complementing more theoretically oriented courses, and it can also be used for self-study by IT professionals who want hands-on experience in applied information security. The authors' supporting software is

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to structural operational semantics, featuring semantic definitions using big-step and small-step semantics of many standard programming language constructs, including control structures, structured declarations and objects, parameter mechanisms and procedural abstraction, concurrency, nondeterminism and the

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features of functional programming languages. Along the way, the text introduces and applies the relevant proof techniques, including forms of induction and notions of semantic equivalence (including bisimilarity). Thoroughly class-tested, this book has evolved from lecture notes used by the author over a 10-year

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found his freedom, everyone in Fengorian will know his name. "An excellent war-time fantasy epic that explores the human cost of freedom" - Anna Grossman

This book covers the fundamental principles in Computer Security. Via hands-on activities, the book aims to help readers

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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 them in programs and systems.

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