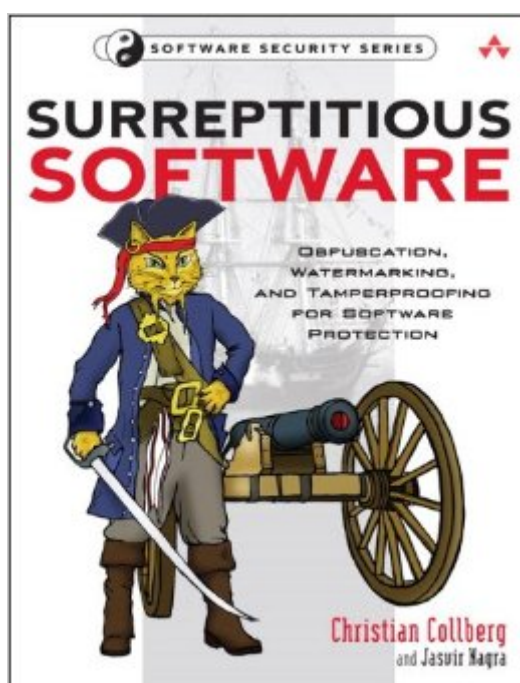


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# Surreptitious Software: Obfuscation, Watermarking, And Tamperproofing For Software Protection: Obfuscation, Watermarking, And Tamperproofing For Software Protection



## Synopsis

“This book gives thorough, scholarly coverage of an area of growing importance in computer security and is a ‘must have’ for every researcher, student, and practicing professional in software protection.” —Mikhail Atallah, Distinguished Professor of Computer Science at Purdue University

**Theory, Techniques, and Tools for Fighting Software Piracy, Tampering, and Malicious Reverse Engineering**

The last decade has seen significant progress in the development of techniques for resisting software piracy and tampering. These techniques are indispensable for software developers seeking to protect vital intellectual property. *Surreptitious Software* is the first authoritative, comprehensive resource for researchers, developers, and students who want to understand these approaches, the level of security they afford, and the performance penalty they incur. Christian Collberg and Jasvir Nagra bring together techniques drawn from related areas of computer science, including cryptography, steganography, watermarking, software metrics, reverse engineering, and compiler optimization. Using extensive sample code, they show readers how to implement protection schemes ranging from code obfuscation and software fingerprinting to tamperproofing and birthmarking, and discuss the theoretical and practical limitations of these techniques. Coverage includes:

- Mastering techniques that both attackers and defenders use to analyze programs
- Using code obfuscation to make software harder to analyze and understand
- Fingerprinting software to identify its author and to trace software pirates
- Tamperproofing software using guards that detect and respond to illegal modifications of code and data
- Strengthening content protection through dynamic watermarking and dynamic obfuscation
- Detecting code theft via software similarity analysis and birthmarking algorithms
- Using hardware techniques to defend software and media against piracy and tampering
- Detecting software tampering in distributed system
- Understanding the theoretical limits of code obfuscation

## Book Information

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## Customer Reviews

This book was very interesting to me. I really don't work in such a way that I would have a need to deploy my own software for money and therefore need to worry about hiding the details of my code, but it was an aspect of computer security I didn't know much about until I sat down with this book. The book is not about trying to keep people out of your computer networks, but it is about keeping unauthorized users from executing your code and about disabling the analysis of your code by those who might want to extract details about some algorithm for the purpose of copying it. I thought that the algorithms involved were very well explained and code snippets were shown to illustrate key concepts. The author employs widely used languages such as PERL for his examples. Commercial products are mentioned when applicable. I really enjoyed the sections on steganography and watermarking - these sections contain the clearest descriptions of the key algorithms involved that I've seen. I had only seen this subject mentioned before in the context of information hiding inside of an image, and the author did a great job of applying it to the conditional hiding of software details. I'd highly recommend this especially to anyone involved in securing software, but even if you are not it is a good exercise in "stretching your brain" on a timely computer science topic. The reader should already be an able programmer in a number of the more common languages (PERL, Java, C) and you should probably have a background in computer science equivalent to a four year degree in order to get the most from this book. The table of contents are not currently shown in the product information, so I include that next. Chapter 1. What Is Surreptitious Software? Section 1.1.

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