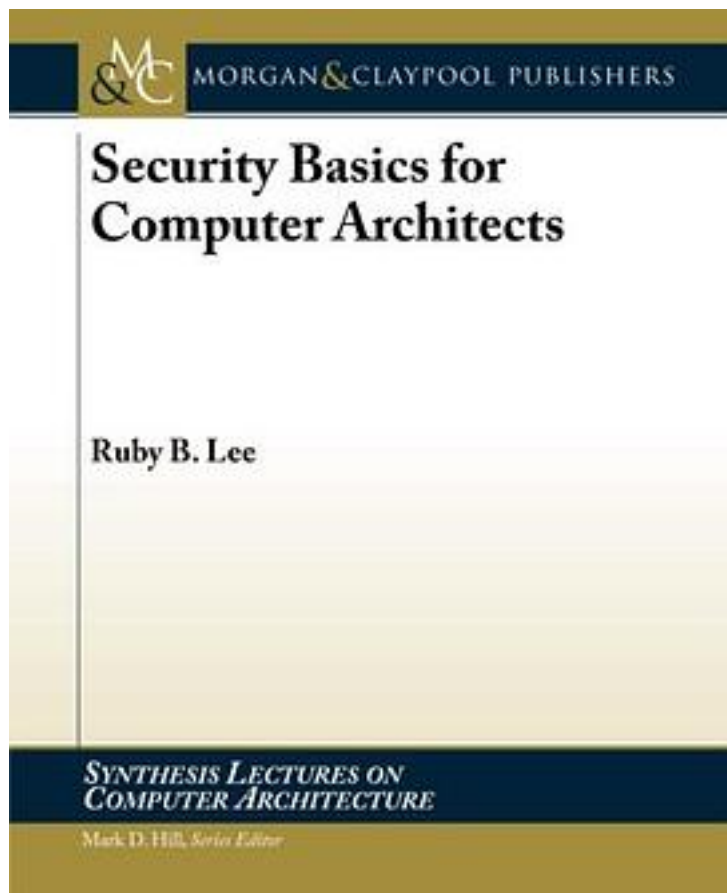


Security Basics for Computer Architects



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Design for security is an essential aspect of the design of future computers. However, security is not well understood by the computer architecture community. Many important security aspects have evolved over the last several decades in the cryptography, operating systems, and networking communities. This book attempts to

introduce the computer architecture student, researcher, or practitioner to the basic concepts of security and threat-based design. Past work in different security communities can inform our thinking and provide a rich set of technologies for building architectural support for security into all future computers and embedded computing devices and appliances. I have tried to keep the book short, which means that many interesting topics and applications could not be included. What the book focuses on are the fundamental security concepts, across different security communities, that should be understood by any computer architect trying to design or evaluate security-aware computer architectures.

The book is also written to be accessible to a more general audience interested in the basic security technologies that can be used to improve cyber security. By understanding the concepts behind the security terminology, the interested reader would understand more clearly the frequent security breaches being reported in the news and be able to critique or even help propose effective security solutions.

作者介绍:

目录: Table of Contents: Preface / Threat-Based Design / Security Policy Models / Access Control / Cryptography for Confidentiality and Integrity / Public-Key Cryptography / Security Protocols / Summary / Bibliography / Appendix: Further Readings / Author's Biography
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