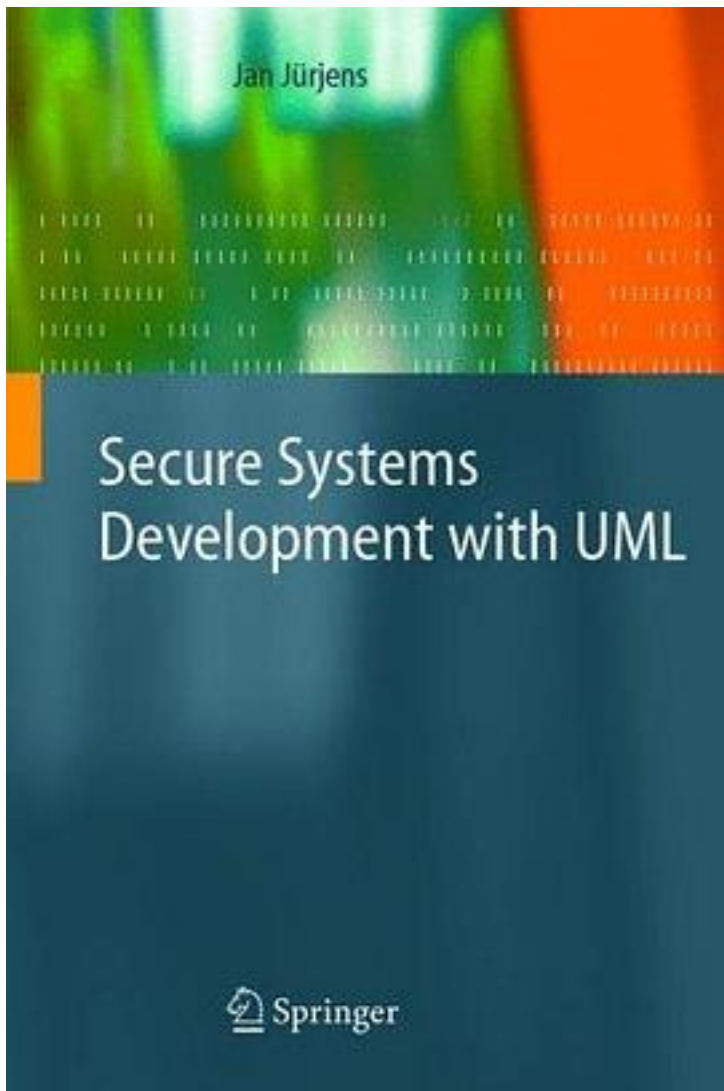


Secure Systems Development with UML



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著者:J

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Attacks against computer systems can cause considerable economic or physical damage. High-quality development of security-critical systems is difficult, mainly because of the conflict between development costs and verifiable correctness. J rjens presents the UML extension UMLsec for secure systems development. It uses the standard UML extension mechanisms, and can be employed to evaluate UML specifications for vulnerabilities using a formal semantics of a simplified fragment of UML. Established rules of security engineering can be encapsulated and hence made available even to developers who are not specialists in security. As one example, J rjens uncovers a flaw in the Common Electronic Purse Specification, and proposes and verifies a correction. With a clear separation between the general description of his approach and its mathematical foundations, the book is ideally suited both for researchers and graduate students in UML or formal methods and security, and for advanced professionals writing critical applications.

作者介绍:

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评论

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书评

系统的安全性应该在设计的阶段就考虑到, 本书在世界计算机学术界也算独树一帜, 描述了怎样把 UML 映射为数学模型, 在进一步分析其设计的合理性和安全性, 比如分析状态图所有可能达到的状态序列, 从而得到系统的可达状态空间范围, 还有传输协议的安全证明..., 本书出版时, 全世...

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