

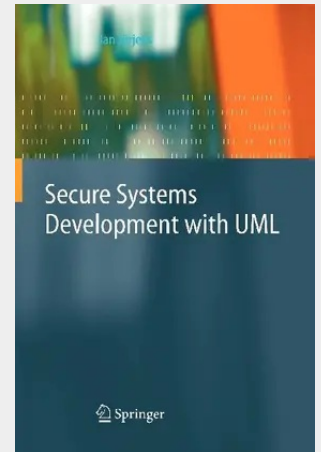
Secure Systems Development with UML

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Jürjens 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, Jürjens 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.

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117,69 €

109,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9783642056352

Medium: Buch

ISBN: 978-3-642-05635-2

Verlag: Springer

Erscheinungstermin: 13.10.2010

Sprache(n): Englisch

Auflage: Softcover Nachdruck of
hardcover 1. Auflage 2005

Produktform: Kartoniert

Gewicht: 505 g

Seiten: 316

Format (B x H): 155 x 235 mm

