

<<组件和对象用形式方法/Formal>>

图书基本信息

书名：<<组件和对象用形式方法/Formal methods for components and objects>>

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内容概要

Formal methods have been applied successfully to the verification of medium-sized programs in protocol and hardware design. However, their application to the development of large systems requires more emphasis on specification, modelling and validation techniques supporting the concepts of reusability and modifiability, and their implementation in new extensions of existing programming languages. This book presents 19 revised invited keynote lectures and revised tutorial lectures given by top-researchers at the 4th International Symposium on Formal Methods for Components and Objects, FMCO 2005, held in Amsterdam, Netherlands, in November 2005. The book provides a unique combination of ideas on software engineering and formal methods that reflect the current interest in the application or development of formal methods for large scale software systems such as component-based systems and object systems. The papers are organized in topical sections on component and service oriented computing, system design, tools, algebraic methods, model checking, assertional methods, quantitative analysis.

书籍目录

Component and Service Oriented Computing
A Software Component Model and Its Preliminary Formalisation
Synchronous Hyperedge Replacement as a Model for Service Oriented Computing
System Design
Control of Modular and Distributed Discrete-Event Systems
Model-Based Security Engineering with UML: Introducing Security Aspects
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Orion: High-Precision Methods for Static Error Analysis of C and C++ Programs
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