### 图书基本信息

书名:《Integration of Software Specification Techniques for Applications in Engineering 工程中应用的软件规范技术的综合》

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#### 内容概要

This book constitutes the documentation of the scientific outcome of the priority program Integration of Software Specification Techniques for Applications in Engineering sponsored by the German Research Foundation (DFG). It includes main contributions of the projects of the priority program and of additional international experts in the field. Some of the papers included were presented at the related Third International Workshop on the topic, INT 2004, held in Barcelona, Spain in March 2004. The 25 revised full papers presented together with 6 section introductions by the volume editors were carefully reviewed and selected for inclusion in the book. The papers are organized in topical sections on reference case study production automation, reference case study traffic control systems, petri nets and related approaches in engineering, charts, verification, and integration modeling.

#### 书籍目录

Integration of Software Specification Techniques for Applications in Engineering: Introduction and Overview of ResultsPart I: Reference Case Study Production Automation Basic Principles for Software Specification -Introduction to Subject Area Reference Case Study Production Automation Challenges of Next Generation Manufacturing Systems Development of Hierarchical Broadcasting Software Architectures Using UML 2.0 An Engineer's Workstation to Support Integrated Development of Flexible Production Control Systems A Formal Component Concept for the Specification of Industrial Control SystemsPart II: Reference Case Study Traffic Control Systems Specification Methodology, Case Studies, and Experiments - An Introduction to the Subject Area of Traffic Control Systems Reference Case Study "Traffic Control Systems" for Comparison and Validation of Formal Specifications Using a Railway Model Demonstrator Precise Definition of the Single-Track Level Crossing in Radio-Based Operation in UML Notation and Specification of Safety Requirements Executable HybridUML and Its Application to Train Control Systems The Use of UML for Development of a Railway Interlocking System Part III: Petri Nets and Related Approaches in Engineering Process Description Languages and Methods Introduction to the Chapter Petri Nets and Related Approaches in Engineering Specification and Formal Verification of Production Automation Systems Specification and Validation of an Edge Router Discovery Protocol for Mobile Ad Hoc Networks A Guide to Modelling and Controt with Modules of Signal Nets 270 Conceptual Design of an Engineering Model for Product and Plant AutomationPart IV: Charts Introduction to Subject Area "Charts" ......PartV:VerificationPaetVI:Integration ModellingAuthor Index

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