

<<Component-Based Soft>>

图书基本信息

书名：<<Component-Based Software Development for Embedded Systems嵌入系统用的基于组件的软件开发>>

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内容概要

This book provides a good opportunity for software engineering practitioners and researchers to get in sync with the current state-of-the-art and future trends in component-based embedded software research. The book is based on a selective compilation of papers that cover the complete component-based embedded software spectrum, ranging from methodology to tools. Methodology aspects covered by the book include functional and non-functional specification, validation, verification, and component architecture. As tools are a critical success factor in the transfer from academia-generated knowledge to industry-ready technology, an important part of the book is devoted to tools. This state-of-the-art survey contains 16 carefully selected papers organised in topical sections on specification and verification, component compatibility, component architectures, implementation and tool support, as well as non-functional properties.

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书籍目录

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Specification and Verification of Applications Based on Function Blocks
A Model-Based Approach to Formal Specification and Verification of Embedded Systems Using Colored Petri Nets :
Modular Verification of Reconfigurable Components
Component Compatibility Behavioral Types for Embedded Software - A Survey
Assessing Real-Time Component Contracts Through Built-in Evolutionary Testing
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Platform-Independent Specification of Component Architectures for Embedded Real-Time Systems Based on an Extended UML
Model Driven Software Development in the Context of Embedded Component Infrastructures
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