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Titolo	Formal Methods for Components and Objects : Second International Symposium, FMCO 2003, Leiden, The Netherlands, November 4-7, 2003. Revised Lectures // edited by Frank S. de Boer, Marcello M. Bonsangue, Susanne Graf, Willem-Paul de Roever
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Soggetti	Software engineering Programming languages (Electronic computers) Computer logic Logic, Symbolic and mathematical Software Engineering Programming Languages, Compilers, Interpreters Logics and Meanings of Programs Mathematical Logic and Formal Languages
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Causality and Scheduling Constraints in Heterogeneous Reactive Systems Modeling -- Machine Function Based Control Code Algebras -- Exploiting Abstraction for Specification Reuse. The Java/C# Case Study -- On the Verification of Cooperating Traffic Agents -- How to Cook a Complete Hoare Logic for Your Pet OO Language -- Behavioural Specification for Hierarchical Object Composition -- Consistency Management within Model-Based Object-Oriented Development of Components -- CommUnity on the Move: Architectures for Distribution and Mobility -- TulaFale: A Security Tool for Web Services -- A Checker for Modal Formulae for Processes with Data -- Semantic Essence of AsML: Extended Abstract -- An MDA Approach to Tame Component Based Software Development -- An Application of Stream Calculus to Signal Flow Graphs -- Synchronous Closing and Flow Analysis for

Sommario/riassunto

Formal methods have been applied successfully to the verification of medium-sized programs in protocol and hardware design. However, their application to more complex systems, resulting from the object-oriented and the more recent component-based software engineering paradigms, requires further development of specification and verification techniques supporting the concepts of reusability and modifiability. This book presents revised tutorial lectures given by invited speakers at the Second International Symposium on Formal Methods for Components and Objects, FMCO 2003, held in Leiden, The Netherlands, in November 2003. The 17 revised lectures by leading researchers present a comprehensive account of the potential of formal methods applied to large and complex software systems such as component-based systems and object systems. The book makes a unique contribution to bridging the gap between theory and practice in software engineering.