1. Record Nr. UNINA9910813007503321

Titolo	Software and systems safety [[electronic resource]] : specification and verification / / edited by Manfred Broy, Christian Leuxner and Tony Hoare
Pubbl/distr/stampa	Amsterdam, The Netherlands, : IOS Press, 2011
ISBN	6613289604 1-283-28960-1 9786613289605 1-60750-711-0
Descrizione fisica	1 online resource (296 p.)
Collana	NATO science for peace and security series. Sub-series D, Information and communication security, , 1874-6268 ; ; v. 30
Altri autori (Persone)	BroyM. <1949-> LeuxnerChristian HoareC. A. R <1934-> (Charles Antony Richard)
Disciplina	005.10289
Soggetti	Software protection Computer software - Reliability Software engineering Computer security System safety
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and indexes.
Nota di contenuto	Title; Preface; Contents; Model-Based Testing; Towards a Theory of Architectural Contracts: Schemes and Patterns of Assumption/Promise Based System Specification; Engineering Evolving and Self-Adaptive Systems: An Overview; Formal Verification; Requirements Models for Critical Systems; From Concurrency Models to Numbers: Performance and Dependability; Unifying Models of Data Flow; Model-Based Verification and Analysis for Real-Time Systems; Model Checking; Subject Index; Author Index
Sommario/riassunto	Information security depends upon an understanding of the functionality of software systems. Customers and information can only be protected from attack if this functionality is guaranteed to be correct

and safe. A scientific foundation of software engineering not only provides models enabling the capture of application domains and requirements, but also ensures an understanding of the structure and working of software systems, architectures and programs. This book presents contributions based on the lectures delivered at the 31st International Summer School: Software and Systems Safety: Speci