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| Titolo | Agile model-based development using UML-RSDS // Kevin Lano, Department of Informatics, King's College London, London, United Kingdom |
| Pubbl/distr/stampa | Boca Raton, Fla. : , : CRC Press, Taylor & Francis Group, , [2017] ©2017 |
| ISBN | 1-315-36815-3 1-315-35118-8 |
| Descrizione fisica | 1 online resource (xi, 373 pages) : illustrations |
| Disciplina | 005.1 |
| Soggetti | Agile software development UML (Computer science) Model-integrated computing Electronic books. |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Note generali | A Science Publishers Book. |
| Nota di bibliografia | Includes bibliographical references and index. |
| Nota di contenuto | 1: Introduction -- 2: Overview of Development Using UML-RSDS -- 3: Class Diagrams -- 4: Constraints -- 5: Use Cases -- 6: Design Synthesis -- 7: Model Transformations -- 8: Case Study: Resource Scheduler -- 9: Design Patterns and Refactorings -- 10: System Composition and Reuse -- 11: Migration Transformations -- 12: Refinement and Enhancement Transformations -- 13: Refactoring and Update-in-place Transformations -- 14: Bidirectional and Incremental Transformations -- 15: Backtracking and Exploratory Transformations -- 16: Agile Development and Model-based Development -- 17: Requirements Analysis and Specification -- 18: System Verification -- 19: Reactive System Development with UML-RSDS -- 20: Enterprise Systems Development with UML-RSDS -- 21: Applications of UML-RSDS in Education and Industry -- Appendix: A: UML-RSDS Syntax -- A.1 OCL expression syntax -- A.2 Activity language syntax -- B: UML-RSDS tool architecture and components -- C: Key principles of UML-RSDS. |
| Sommario/riassunto | This book describes the concepts and application of model-based development (MBD), model transformations, and Agile MBD to a wide |

range of software systems. It covers systems requirements engineering, system specification and design, verification, reuse, and system composition in the context of Agile MBD. Examples of applications in finance, system migration, internet systems and software refactoring are given. An established open-source MBD technology, UML-RSDS, is used throughout to illustrate the concepts. The book is suitable for industrial practitioners who need training in Agile MBD, and those who need to understand the issues to be considered when introducing MBD in an industrial context. It is also suitable for academic researchers, and for use as text for undergraduate or postgraduate courses in MBD. Examples for educational use of UML-RSDS are included in the book.
