1. Record Nr. UNINA9910139054703321 Autore Arboleda Hugo Titolo Model-driven and software product line engineering [[electronic resource] /] / Hugo Arboleda, Jean-Claude Royer Pubbl/distr/stampa London, : ISTE Hoboken, N.J., : John Wiley & Sons, c2012 **ISBN** 1-118-56137-6 1-118-56973-3 1-299-31489-9 1-118-56979-2 Descrizione fisica 1 online resource (290 p.) Collana ISTE Altri autori (Persone) RoyerJean-Claude 005.1 Disciplina Soggetti Software product line engineering Model-driven software architecture Lingua di pubblicazione Inglese **Formato** Materiale a stampa Monografia Livello bibliografico Description based upon print version of record. Note generali Nota di bibliografia Includes bibliographical references and index. Nota di contenuto Cover; Title Page; Copyright Page; Table of Contents; Chapter 1. Introduction; 1.1. Software product line engineering; 1.2. Model-driven engineering; 1.3. Merging model-driven and software product line engineering; 1.4. The FieSta framework; 1.5. Book structure; Chapter 2. Software Product Line Engineering Basics; 2.1. Introduction to product line engineering; 2.2. Brief history; 2.3. Application example: Smart-Home systems; 2.3.1. Smart-Home system's domain; 2.3.2. Requirements of the application example; 2.4. Software product line engineering; 2.5. Domain engineering 2.5.1. Component-based software engineering 2.6. Variability management; 2.6.1. Feature modeling; 2.7. Application engineering; 2.7.1. Product configuration; 2.7.2. Product derivation; 2.8. Benefits and drawbacks; 2.9. Issues in product line; 2.9.1. Variability management; 2.9.2. Product derivation; 2.9.3. Testing; 2.9.4. Traceability: 2.9.5. Product line evolution: 2.9.6. Tool support: 2.10. Summary; Chapter 3. Model-Driven Engineering; 3.1. Introduction; 3.2.

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## Sommario/riassunto

Many approaches to creating Software Product Lines have emerged that are based on Model-Driven Engineering. This book introduces both Software Product Lines and Model-Driven Engineering, which have separate success stories in industry, and focuses on the practical combination of them. It describes the challenges and benefits of merging these two software development trends and provides the reader with a novel approach and practical mechanisms to improve software development productivity. The book is aimed at engineers and students who wish to understand and apply software product lines