Google Drive



Feature-Oriented Software Product Lines: Concepts and Implementation

Sven Apel, Don Batory, Christian Kästner, Gunter Saake

Download now

Click here if your download doesn"t start automatically

Feature-Oriented Software Product Lines: Concepts and Implementation

Sven Apel, Don Batory, Christian Kästner, Gunter Saake

Feature-Oriented Software Product Lines: Concepts and Implementation Sven Apel, Don Batory, Christian Kästner, Gunter Saake

While standardization has empowered the software industry to substantially scale software development and to provide affordable software to a broad market, it often does not address smaller market segments, nor the needs and wishes of individual customers. Software product lines reconcile mass production and standardization with mass customization in software engineering. Ideally, based on a set of reusable parts, a software manufacturer can generate a software product based on the requirements of its customer. The concept of features is central to achieving this level of automation, because features bridge the gap between the requirements the customer has and the functionality a product provides. Thus features are a central concept in all phases of product-line development.

The authors take a developer’s viewpoint, focus on the development, maintenance, and implementation of product-line variability, and especially concentrate on automated product derivation based on a user’s feature selection. The book consists of three parts. Part I provides a general introduction to feature-oriented software product lines, describing the product-line approach and introducing the product-line development process with its two elements of domain and application engineering. The pivotal part II covers a wide variety of implementation techniques including design patterns, frameworks, components, feature-oriented programming, and aspect-oriented programming, as well as tool-based approaches including preprocessors, build systems, version-control systems, and virtual separation of concerns. Finally, part III is devoted to advanced topics related to feature-oriented product lines like refactoring, feature interaction, and analysis tools specific to product lines. In addition, an appendix lists various helpful tools for software product-line development, along with a description of how they relate to the topics covered in this book.

To tie the book together, the authors use two running examples that are well documented in the product-line literature: data management for embedded systems, and variations of graph data structures. They start every chapter by explicitly stating the respective learning goals and finish it with a set of exercises; additional teaching material is also available online. All these features make the book ideally suited for teaching – both for academic classes and for professionals interested in self-study.

Download Feature-Oriented Software Product Lines: Concepts ...pdf

Read Online Feature-Oriented Software Product Lines: Concept ...pdf

Download and Read Free Online Feature-Oriented Software Product Lines: Concepts and Implementation Sven Apel, Don Batory, Christian Kästner, Gunter Saake

---

From reader reviews:

Eleonora Plunkett:

What do you think about book? It is just for students because they're still students or the idea for all people in the world, the particular best subject for that? Only you can be answered for that question above. Every person has various personality and hobby for each and every other. Don't to be pushed someone or something that they don't would like do that. You must know how great and also important the book Feature-Oriented Software Product Lines: Concepts and Implementation. All type of book are you able to see on many options. You can look for the internet methods or other social media.

Christian Robbins:

As people who live in the particular modest era should be update about what going on or facts even knowledge to make these people keep up with the era and that is always change and move forward. Some of you maybe will update themselves by reading through books. It is a good choice to suit your needs but the problems coming to you is you don't know what one you should start with. This Feature-Oriented Software Product Lines: Concepts and Implementation is our recommendation to help you keep up with the world. Why, as this book serves what you want and need in this era.

Dennis James:

A lot of people always spent their particular free time to vacation as well as go to the outside with them household or their friend. Are you aware? Many a lot of people spent these people free time just watching TV, or perhaps playing video games all day long. If you want to try to find a new activity honestly, that is look different you can read any book. It is really fun in your case. If you enjoy the book that you just read you can spent all day every day to reading a publication. The book Feature-Oriented Software Product Lines: Concepts and Implementation it is very good to read. There are a lot of folks that recommended this book. We were holding enjoying reading this book. In the event you did not have enough space to create this book you can buy often the e-book. You can m0ore very easily to read this book through your smart phone. The price is not to fund but this book possesses high quality.

Danielle Burdette:

Some individuals said that they feel bored when they reading a reserve. They are directly felt it when they get a half regions of the book. You can choose the book Feature-Oriented Software Product Lines: Concepts and Implementation to make your own reading is interesting. Your own personal skill of reading skill is developing when you such as reading. Try to choose easy book to make you enjoy to study it and mingle the idea about book and examining especially. It is to be initially opinion for you to like to wide open a book and read it. Beside that the e-book Feature-Oriented Software Product Lines: Concepts and Implementation can to be your brand new friend when you're feel alone and confuse in doing what must you're doing of this time.

Download and Read Online Feature-Oriented Software Product Lines: Concepts and Implementation Sven Apel, Don Batory, Christian Kästner, Gunter Saake #0ZUWCGV19AN

Read Feature-Oriented Software Product Lines: Concepts and Implementation by Sven Apel, Don Batory, Christian Kästner, Gunter Saake for online ebook

Feature-Oriented Software Product Lines: Concepts and Implementation by Sven Apel, Don Batory, Christian Kästner, Gunter Saake Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Feature-Oriented Software Product Lines: Concepts and Implementation by Sven Apel, Don Batory, Christian Kästner, Gunter Saake books to read online.

Online Feature-Oriented Software Product Lines: Concepts and Implementation by Sven Apel, Don Batory, Christian Kästner, Gunter Saake ebook PDF download

Feature-Oriented Software Product Lines: Concepts and Implementation by Sven Apel, Don Batory, Christian Kästner, Gunter Saake Doc

Feature-Oriented Software Product Lines: Concepts and Implementation by Sven Apel, Don Batory, Christian Kästner, Gunter Saake Mobipocket

Feature-Oriented Software Product Lines: Concepts and Implementation by Sven Apel, Don Batory, Christian Kästner, Gunter Saake EPub