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Object-Oriented Software Engineering

USING UML, PATTERNS AND JAVA™

Third Edition

Bernd Bruegge
Allen H. Dutoit



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Object Oriented Software Engineering Using Uml Patterns And Java

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tools and methods Software Patterns, Knowledge Maps, and Domain Analysis Mohamed E. Fayad, Huascar A. Sanchez, Srikanth G.K. Hegde, Anshu Basia, Ashka Vakil, 2014-12-04 Software design patterns are known to play a vital role in enhancing the quality of software systems while reducing development time and cost. However, the use of these design patterns has also been known to introduce problems that can significantly reduce the stability, robustness, and reusability of software. This book introduces a new process for **EBOOK: Object-Oriented Software Engineering: Practical Software Development Using UML and Java** LETHBRIDGE, TIM, 2004-12-16 EBOOK Object Oriented Software Engineering Practical Software Development Using UML and Java **Classical and Object-oriented Software Engineering with UML and Java** Stephen R. Schach, 1999 **Object-oriented software engineering** Timothy C. Lethbridge, 2007 Object-oriented Software Engineering Timothy Christian Lethbridge, Robert Laganière, 2005 **Object-oriented Software Development Using Java** Xiaoping Jia, 2003 Jia software engineering DePaul University helps readers develop skills in designing software and especially in writing object oriented programs using Java. The text provides broad coverage of object oriented technology including object oriented modeling using the Unified Modeling Language (UML), object oriented design using design patterns and object oriented programming using Java. This second edition offers expanded coverage of design patterns, enhanced material on UML and a new introduction to the iterative software development process made popular by extreme programming. Learning features include chapter summaries, exercises, and projects. Classical and Object-oriented Software Engineering with UML and C++ Stephen R. Schach, 1999 The Universal Modeling Language (UML) has become an industry standard in software engineering. In this text, it is used for object oriented analysis and design as well as when diagrams depict objects and their interrelationships. An Introduction to Programming and Object-Oriented Design Using JAVA Jaime Nino, Frederick A. Hosch, 2002 Covers I/O, applets, Java syntax, design patterns, and distinction between specification and implementation. **Web Engineering: A Practitioner's Approach** Roger Pressman, David Lowe, 2008-01-22 and content management. Whether you're an industry practitioner or intend to become one, Web Engineering: A Practitioner's Approach can help you meet the challenge of the next generation of Web based systems and applications. Book Jacket Designing Software Product Lines with UML Hassan Gomaa, 2005 Designing Software Product Lines with UML is well written, informative, and addresses a very important topic. It is a valuable contribution to the literature in this area and offers practical guidance for software architects and engineers. Alan Brown, Distinguished Engineer, Rational Software, IBM Software Group. Gomaa's process and UML extensions allow development teams to focus on feature oriented development and provide a basis for improving the level of reuse across multiple software development efforts. This book will be valuable to any software development professional who needs to manage across projects and wants to focus on creating software that is consistent, reusable, and modular in nature. Jeffrey S. Hammond, Group Marketing Manager, Rational Software, IBM Software Group. This book brings together a good range of concepts for understanding software product lines and

provides an organized method for developing product lines using object oriented techniques with the UML Once again Hassan has done an excellent job in balancing the needs of both experienced and novice software engineers Robert G Pettit IV Ph D Adjunct Professor of Software Engineering George Mason University This breakthrough book provides a comprehensive step by step approach on how to develop software product lines which is of great strategic benefit to industry The development of software product lines enables significant reuse of software architectures Practitioners will benefit from the well defined PLUS process and rich case studies Hurley V Blankenship II Program Manager Justice and Public Safety Science Applications International Corporation The Product Line UML based Software engineering PLUS is leading edge With the author s wide experience and deep knowledge PLUS is well harmonized with architectural and design pattern technologies Michael Shin Assistant Professor Texas Tech University Long a standard practice in traditional manufacturing the concept of product lines is quickly earning recognition in the software industry A software product line is a family of systems that shares a common set of core technical assets with preplanned extensions and variations to address the needs of specific customers or market segments When skillfully implemented a product line strategy can yield enormous gains in productivity quality and time to market Studies indicate that if three or more systems with a degree of common functionality are to be developed a product line approach is significantly more cost effective To model and design families of systems the analysis and design concepts for single product systems need to be extended to support product lines Designing Software Product Lines with UML shows how to employ the latest version of the industry standard Unified Modeling Language UML 2 0 to reuse software requirements and architectures rather than starting the development of each new system from scratch Through real world case studies the book illustrates the fundamental concepts and technologies used in the design and implementation of software product lines This book describes a new UML based software design method for product lines called PLUS Product Line UML based Software engineering PLUS provides a set of concepts and techniques to extend UML based design methods and processes for single systems in a new dimension to address software product lines Using PLUS the objective is to explicitly model the commonality and variability in a software product line Hassan Gomaa explores how each of the UML modeling views use case static state machine and interaction modeling can be extended to address software product families He also discusses how software architectural patterns can be used to develop a reusable component based architecture for a product line and how to express this architecture as a UML platform independent model that can then be mapped to a platform specific model Key topics include Software product line engineering process which extends the Unified Development Software Process to address software product lines Use case modeling including modeling the common and variable functionality of a product line Incorporating feature modeling into UML for modeling common optional and alternative product line features Static modeling including modeling the boundary of the product line and information intensive entity classes Dynamic modeling including using interaction modeling to address use case variability State

machines for modeling state dependent variability Modeling class variability using inheritance and parameterization Software architectural patterns for product lines Component based distributed design using the new UML 2.0 capability for modeling components connectors ports and provided and required interfaces Detailed case studies giving a step by step solution to real world product line problems Designing Software Product Lines with UML is an invaluable resource for all designers and developers in this growing field The information technology and case studies presented here show how to harness the promise of software product lines and the practicality of the UML to take software design quality and efficiency to the next level An enhanced online index allows readers to quickly and easily search the entire text for specific topics

Using UML Perdita Stevens,R. J. Pooley,2000 Updated to cover UML 1.3 this student textbook provides a practical understanding of software design and development using UML Case studies are used to illustrate good practice

Developing Enterprise Java Applications with J2EE and UML Khawar Zaman Ahmed,Cary E. Umrysh,2002 The Java 2 Platform Enterprise Edition J2EE™ offers great promise for dramatically improving the way that enterprise applications are built and organizations that have adopted the J2EE are gaining a competitive advantage The industry standard Unified Modeling Language UML has helped countless organizations achieve software success through visual modeling Together the UML and J2EE form a powerful set of tools but the intricacies involved with using them in tandem are considerable While UML is highly effective for specifying designing constructing visualizing and documenting software systems J2EE offers enterprise developers a simplified component based approach to application development However when using the two technologies together developers must first consider and attempt to reconcile the different characteristics of each Developing Enterprise Java Applications with J2EE™ and UML examines the best ways to jointly leverage these technologies Exploring concrete methods for completing a successful development project the authors cover the use of UML and J2EE in detail Using practical examples and a case study they illustrate the pros and cons of specific design approaches show how personal experience can affect design decisions and demonstrate proven approaches for building better software faster With this book as a guide developers will be able to overcome the challenges in using UML and J2EE together and be on their way to building robust scalable and complex applications 0201738295B09042001

Software Engineering Doug Bell,2000 Software Engineering A Programming Approach provides a unique introduction to software engineering for all students of computer science and its related disciplines It is also ideal for practitioners in the software industry who wish to keep track of new developments in the discipline The third edition is an update of the original text written by Bell Morrey and Pugh and further develops the programming approach taken by these authors The new edition however being updated by a single author presents a more coherent and fully integrated text It also includes recent developments in the field and new chapters include those on formal development software management prototyping process models and user interface design The programming approach emphasized in this text builds on the readerAs understanding of small scale programming and

extends this knowledge into the realm of large scale software engineering. This helps the student to understand the current challenges of software engineering as well as developing an understanding of the broad range of techniques and tools that are currently available in the industry. Particular features of the third edition are a pragmatic non mathematical approach an overview of the software development process is included self test questions in each chapter ensure understanding of the topic extensive exercises are provided at the end of each chapter an accompanying website extends and updates material in the book use of Java throughout as an illustrative programming language consistent use of UML as a design notation. Douglas Bell is a lecturer at Sheffield Hallam University England. He has authored and co authored a number of texts including most recently Java for Students Aspect-oriented Software Development with Use Cases Ivar Jacobson, Pan-Wei Ng, 2005. A refreshingly new approach toward improving use case modeling by fortifying it with aspect orientation. Ramnivas Laddad author of AspectJ in Action. Since the 1980s use cases have been a way to bring users into software design but translating use cases into software has been an art at best because user goods often don t respect code boundaries. Now that aspect oriented programming AOP can express crosscutting concerns directly in code the man who developed use cases has proposed step by step methods for recognizing crosscutting concerns in use cases and writing the code in separate modules. If these methods are at all fruitful in your design and development practice they will make a big difference in software quality for developers and users alike. Wes Isberg AspectJ team member. This book not only provides ideas and examples of what aspect oriented software development is but how it can be utilized in a real development project. Michael Ward ThoughtWorks Inc. No system has ever been designed from scratch perfectly every system is composed of features layered in top of features that accumulate over time. Conventional design techniques do not handle this well and over time the integrity of most systems degrades as a result. For the first time here is a set of techniques that facilitates composition of behavior that not only allows systems to be defined in terms of layered functionality but composition is at the very heart of the approach. This book is an important advance in modern methodology and is certain to influence the direction of software engineering in the next decade just as Object Oriented Software Engineering influenced the last. Kurt Bittner IBM Corporation. Use cases are an excellent means to capture system requirements and drive a user centric view of system development and testing. This book offers a comprehensive guide on explicit use case driven development from early requirements modeling to design and implementation. It provides a simple yet rich set of guidelines to realize use case models using aspect oriented design and programming. It is a valuable resource to researchers and practitioners alike. Dr Awais Rashid Lancaster University U K and author of Aspect Oriented Database Systems. AOSD is important technology that will help developers produce better systems. Unfortunately it has not been obvious how to integrate AOSD across a project s lifecycle. This book shatters that barrier providing concrete examples on how to use AOSD from requirements analysis through testing. Charles B Haley research fellow The Open University U K. Aspect oriented programming AOP is a revolutionary new way to think about software.

engineering AOP was introduced to address crosscutting concerns such as security logging persistence debugging tracing distribution performance monitoring and exception handling in a more effective manner Unlike conventional development techniques which scatter the implementation of each concern into multiple classes aspect oriented programming localizes them Aspect oriented software development AOSD uses this approach to create a better modularity for functional and nonfunctional requirements platform specifics and more allowing you to build more understandable systems that are easier to configure and extend to meet the evolving needs of stakeholders In this highly anticipated new book Ivar Jacobson and Pan Wei Ng demonstrate how to apply use cases a mature and systematic approach to focusing on stakeholder concerns and aspect orientation in building robust and extensible systems Throughout the book the authors employ a single real world example of a hotel management information system to make the described theories and practices concrete and understandable The authors show how to identify design implement test and refactor use case modules as well as extend them They also demonstrate how to design use case modules with the Unified Modeling Language UML emphasizing enhancements made in UML 2.0 and how to achieve use case modularity using aspect technologies notably AspectJ Key topics include Making the case for use cases and aspects Capturing and modeling concerns with use cases Keeping concerns separate with use case modules Modeling use cases slices and aspects using the newest extensions to the UML notation Applying use cases and aspects in projects Whatever your level of experience with aspect oriented programming Aspect Oriented Software Development with Use Cases will teach you how to develop better software by embracing the paradigm shift to AOSD

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