



Object-Oriented Software Engineering

Practical Software Development
Using UML and Java

2nd edition

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Object Oriented Software Engineering Practical Software Development Using Uml And Java

Mark Steyvers



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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

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Object-oriented Software Engineering Timothy Lethbridge, Robert Laganière, 2005-05 **Object-Oriented Software Engineering: Using Uml, Patterns And Java, 2/E** Bruegge, 2004-09 **Testing Object-oriented Systems** Robert Binder, 2000 More than ever mission critical and business critical applications depend on object oriented OO software Testing techniques tailored to the unique challenges of OO technology are necessary to achieve high reliability and quality Testing Object Oriented Systems Models Patterns and Tools is an authoritative guide to designing and automating test suites for OO applications This comprehensive book explains why testing must be model based and provides in depth coverage of techniques to develop testable models from state machines combinational logic and the Unified Modeling Language UML It introduces the test design pattern and presents 37 patterns that explain how to design responsibility based test suites how to tailor integration and regression testing for OO code how to test reusable components and frameworks and how to develop highly effective test suites from use cases Effective testing must be automated and must leverage object technology The author describes how to design and code specification based assertions to offset testability losses due to inheritance and polymorphism Fifteen micro patterns present oracle strategies practical solutions for one of the hardest problems in test design Seventeen design patterns explain how to automate your test suites with a coherent OO test harness framework The author provides thorough coverage of testing issues such as The bug hazards of OO programming and differences from

testing procedural code How to design responsibility based tests for classes clusters and subsystems using class invariants
 interface data flow models hierarchic state machines class associations and scenario analysis How to support reuse by
 effective testing of abstract classes generic classes components and frameworks How to choose an integration strategy that
 supports iterative and incremental development How to achieve comprehensive system testing with testable use cases How
 to choose a regression test approach How to develop expected test results and evaluate the post test state of an object How
 to automate testing with assertions OO test drivers stubs and test frameworks Real world experience world class best
 practices and the latest research in object oriented testing are included Practical examples illustrate test design and test
 automation for Ada 95 C Eiffel Java Objective C and Smalltalk The UML is used throughout but the test design patterns apply
 to systems developed with any OO language or methodology 0201809389B04062001 **The Rational Unified Process**
 Philippe Kruchten, 2004 bull Reflects all of the changes that were integrated into RUP v2003 the latest version of the very
 popular produc t bull Learn the key concepts fundamentals of structure integral content and motivation behind the RUP bull
 Covers all phases of the software development lifecycle from concept to delivery to revision **MDA Explained** Anneke G.
 Kleppe, Jos B. Warmer, Wim Bast, 2003 Highlights of this book include the MDA framework including the Platform
 Independent Model PIM and Platform Special Model PSM OMG standards and the use of UML MDA and Agile Extreme
 Programming and Rational Unified Process RUP development how to apply MDA including PIM to PSM and PSM to code
 transformations for Relational Enterprise JavaBean EJB and Web models transformations including controlling and tuning
 traceability incremental consistency and their implications metamodeling and relationships between different standards
 including Meta Object Facility MOF UML and Object Constraint Language OCL Jacket *Use Case Modeling* Kurt
 Bittner, Ian Spence, 2003 Discusses how to define and organize use cases that model the user requirements of a software
 application The approach focuses on identifying all the parties who will be using the system then writing detailed use case
 descriptions and structuring the use case model An ATM example runs throughout the book The authors work at Rational
 Software Annotation copyrighted by Book News Inc Portland OR The Rational Unified Process Made Easy Per
 Kroll, Philippe Kruchten, 2003 The authors explain the underlying software development principles behind the RUP and guide
 readers in its application in their organization **Developing Enterprise Java Applications with J2EE and UML** Khawar
 Zaman Ahmed, Cary E. Umrysh, 2002 The Java 2 Platform Enterprise Edition J2EE TM 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 TM 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: A Practitioner's Approach** Roger S. Pressman,2010 For over 20 years this has been the best selling guide to software engineering for students and industry professionals alike This seventh edition features a new part four on web engineering which presents a complete engineering approach for the analysis design and testing of web applications **Analysis Patterns** Martin Fowler,1997 Martin Fowler is a consultant specializing in object oriented analysis and design This book presents and discusses a number of object models derived from various problem domains All patterns and models presented have been derived from the author s own consulting work and are based on real business cases *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 memberThis 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 MichaelWard 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 CorporationUse 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

Classical and Object-oriented Software Engineering with UML and Java Stephen R. Schach,1999

Object-Oriented Software Engineering Using UML, Patterns, and Java Bernd Bruegge,Allen H. Dutoit,2013-08-29 For courses in Software Engineering Software Development or Object Oriented Design and Analysis at the Junior Senior or Graduate level This text can also be utilized in short technical courses or in short intensive management courses Shows students how to use both the principles of software engineering and the practices of various object oriented tools processes and products Using a step by step case study to illustrate the concepts and topics in each chapter Bruegge and Dutoit emphasize learning object oriented software engineer through practical experience students can apply the techniques learned in class by implementing a real world software project The third edition addresses new trends in particular agile

project management Chapter 14 Project Management and agile methodologies Chapter 16 Methodologies Practical Object-oriented Development with UML and Java Richard C. Lee, William M. Tepfenhart, 2002 This practical book tells readers how to actually build object oriented models using UML notation and how to implement these models using Java The authors introduce all of the basic fundamentals necessary to start applying and understanding the object oriented paradigm without having to be an expert in computer science or advanced mathematics It can help the reader to make the right decisions to meet their individual business needs Using cases recommended approach scenarios and examples this clearly written book covers a multitude of topics managing complexity principles of Object Orientation specification models current techniques behaviors relationships rules design Java background and fundamentals multi tasking JAR files security Swing Applets class and interface internationalization and implementing generalization and specialization For professional software analysts and developers who work on large systems and others in the field of computer science

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