



Mark Priestley

Practical Object-Oriented Design With UML

Second Edition

Practical Object Oriented Design Using Uml

Hassan Gomaa



Practical Object Oriented Design Using Uml:

Practical Object-oriented Design with UML Mark Priestley,2003 This is a revised and updated edition of this title which provides a practical introduction to the design of object oriented programs using UML It includes detailed coverage of modelling techniques and notation with worked examples throughout The book contains substantial code examples in Java It clearly connects design concepts with code and is useful for people with programming experience who wish to learn about design It is also useful for computer science and software engineering undergraduates taking courses covering object oriented techniques The book provides explanations of UML and OCL notation emphasis on transitions from design to code as well as including complete case studies with code and many exercises **Ebook: Practical Object-Oriented**

PRIESTLEY,2003-12-16 Ebook Practical Object Orient *Practical Object-Oriented Design Using Uml* Mark Priestley,2003

UML 2 and the Unified Process Jim Arlow,Ila Neustadt,2005-06-27 This book manages to convey the practical use of UML 2 in clear and understandable terms with many examples and guidelines Even for people not working with the Unified Process the book is still of great use UML 2 and the Unified Process Second Edition is a must read for every UML 2 beginner and a helpful guide and reference for the experienced practitioner Roland Leibundgut Technical Director Zuehlke Engineering Ltd This book is a good starting point for organizations and individuals who are adopting UP and need to understand how to provide visualization of the different aspects needed to satisfy it Eric Naiburg Market Manager Desktop Products IBM Rational Software This thoroughly revised edition provides an indispensable and practical guide to the complex process of object oriented analysis and design using UML 2 It describes how the process of OO analysis and design fits into the software development lifecycle as defined by the Unified Process UP UML 2 and the Unified Process contains a wealth of practical powerful and useful techniques that you can apply immediately As you progress through the text you will learn OO analysis and design techniques UML syntax and semantics and the relevant aspects of the UP The book provides you with an accurate and succinct summary of both UML and UP from the point of view of the OO analyst and designer This book provides Chapter roadmaps detailed diagrams and margin notes allowing you to focus on your needs Outline summaries for each chapter making it ideal for revision and a comprehensive index that can be used as a reference New to this edition Completely revised and updated for UML 2 syntax Easy to understand explanations of the new UML 2 semantics More real world examples A new section on the Object Constraint Language OCL Introductory material on the OMG s Model Driven Architecture MDA The accompanying website provides A complete example of a simple e commerce system Open source tools for requirements engineering and use case modeling Industrial strength UML course materials based on the book

Prac O-O Dsign Wth Uml, 2/E Priestley,2005-12 *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

The Object Constraint Language Jos B. Warmer, Anneke G. Kleppe, 2003
Learn to better leverage the significant power of UML 2.0 and the Model Driven Architecture standard The OCL helps developers produce better software by adding vital definition to their designs Updated to reflect the latest version of the standard OCL 2.0

Real-time Design Patterns Bruce Powel Douglass, 2003 This revised and enlarged edition of a classic in Old Testament scholarship reflects the most up to date research on the prophetic books and offers substantially expanded discussions of important new insight on Isaiah and the other prophets

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

UML and C++ Richard C. Lee, William M. Tepfenhart, 1997 If you are interested in learning object oriented technology using UML Unified Modeling Language and C then this guide from two leading software developers at Bell Laboratories of Lucent Technologies and AT teaches the professional to make and trade off decisions to meet business needs explains the differences among object oriented analysis object oriented design and object oriented programming provides a strategy for employing all the steps of object oriented technology fully worked case study that takes the reader through the entire development process every concept is introduced with an example

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

Software Development for Small Teams Gary Pollice, 2004 I highly recommend this book for anyone who's ever tried to implement RUP on a small project Pollice and company have demystified and effectively scaled the process while ensuring that its essence hasn't been compromised A must have for any RUPster's library Chris Soskin Process Engineering Consultant Toyota Motor Sales Do you want to improve the process on your next project Perhaps you'd like to combine the best practices from the Rational Unified Process RUP and from agile methodologies such as Extreme Programming If so buy this book **Software Development for Small Teams** describes an entire software development project from the initial customer contact through delivery of the software Through a case study it describes how one small distributed team designed and applied a successful process But

this is not a perfect case study The story includes what worked and what didn't and describes how the team might change its process for the next project The authors encourage you to assess their results and to use the lessons learned on your next project Key topics covered include Achieving a balance between people process and tools recognizing that software develop

The Rational Unified Process Philippe Kruchten, 2004 Reflects all of the changes that were integrated into RUP v2003 the latest version of the very popular product 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 **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

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

A Practical Introduction to Object-Oriented Design with C++ Steven P. Reiss, 1998-10-06 Learn the tools and techniques needed to design and implement moderate sized software systems Do you want to gain the necessary skills to effectively write moderate sized 10 000 to 50 000 line programs Would you like to develop a more advanced understanding of object oriented design and learn how to implement important design and style rules Do you want to be able to take a project from the concept stage to completion This is all possible with Steven Reiss s innovative text A Practical Introduction to Software Design with C Reiss provides you with all the tools and techniques to enable you to design and implement moderate sized

software systems alone or in a team The book details the proper use of inheritance design notations using a simplified form of OMT to describe designs the use of object libraries such as STL creating library classes and the use of design patterns You ll also find useful discussions on advanced language and programming features such as exception handling interprocess communication and debugging tools and techniques

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 Building J2EE Applications with the Rational Unified Process Peter Eeles, Kelli Houston, Wojtek Kozaczynski, 2003 PLEASE PROVIDE SUMMARY

Aspect-oriented Analysis and Design Siobhán Clarke, Elisa

Baniassad, 2005 An introduction for developers who need practical information to make the significant shift to aspect oriented development 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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