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# The Unified Software Development Process Paperback Object Technology Series

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## **OBRIEN HOLMES**

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### **An Improved Approach for Domain Modeling and Software**

**Development** Prentice Hall

Fusion is an easy-to-learn, easy-to-use method for designing object-oriented (oo) software that was created at Hewlett-Packard Labs by merging (fusing) the best practices from other oo analysis and design methods. This is the first book that describes the actual experiences of Fusion users, both inside and outside of Hewlett-Packard.

**Software Engineering and Object Oriented Modeling** Addison-Wesley Professional

bull; 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

The Rational Unified Process Cambridge University Press

This landmark book provides a thorough overview of the Unified Process for software development, with a practical focus on modeling using the Unified Modeling Language (UML). The Unified Process goes beyond mere object-oriented analysis and design to spell out a proven family of techniques that supports the complete software

development life cycle. The result is a component-based process that is use-case driven, architecture-centric, iterative, and incremental. The Unified Process takes full advantage of the industry-standard Unified Modeling Language. This book demonstrates how the notation and process complement one another, using UML models to illustrate the new process in action. The authors clearly describe the semantics and notation of the different higher-level constructs used in the models. Constructs such as use cases, actors, subsystems, classes, interfaces, active classes, processes, threads, nodes, and most relations are described in the context of a model. Object technology practitioners and software engineers familiar with the authors' past work will

appreciate The Unified Software Development Process as a useful means of learning the current best practices in software development.

UML and the Unified Process Pearson Education

Project-Based Software Engineering is the first book to provide hands-on process and practice in software engineering essentials for the beginner. The book presents steps through the software development life cycle and two running case studies that develop as the steps are presented. Running parallel to the process presentation and case studies, the book supports a semester-long software development project. This book focuses on object-oriented software development, and supports the conceptualization, analysis, design and

implementation of an object-oriented project. It is mostly language-independent, with necessary code examples in Java. A subset of UML is used, with the notation explained as needed to support the readers' work. Two running case studies a video game and a library check out system show the development of a software project. Both have sample deliverables and thus provide the reader with examples of the type of work readers are to create. This book is appropriate for readers looking to gain experience in project analysis, design implementation, and testing.

**Applying UML and Patterns Training Course** Cambridge University Press

In areas such as military, security, aerospace, and disaster management, the need for performance optimization

and interoperability among heterogeneous systems is increasingly important. Model-driven engineering, a paradigm in which the model becomes the actual software, offers a promising approach toward systems of systems (SoS) engineering. However, model-driven engineering has largely been unachieved in complex dynamical systems and netcentric SoS, partly because modeling and simulation (M&S) frameworks are stove-piped and not designed for SoS composability. Addressing this gap, Netcentric System of Systems Engineering with DEVS Unified Process presents a methodology for realizing the model-driven engineering vision and netcentric SoS using DEVS Unified Process (DUNIP). The authors draw on their experience with

Discrete Event Systems Specification (DEVS) formalism, System Entity Structure (SES) theory, and applying model-driven engineering in the context of a netcentric SoS. They describe formal model-driven engineering methods for netcentric M&S using standards-based approaches to develop and test complex dynamic models with DUNIP. The book is organized into five sections: Section I introduces undergraduate students and novices to the world of DEVS. It covers systems and SoS M&S as well as DEVS formalism, software, modeling language, and DUNIP. It also assesses DUNIP with the requirements of the Department of Defense's (DoD) Open Unified Technical Framework (OpenUTF) for netcentric Test and Evaluation (T&E). Section II delves into M&S-based systems

engineering for graduate students, advanced practitioners, and industry professionals. It provides methodologies to apply M&S principles to SoS design and reviews the development of executable architectures based on a framework such as the Department of Defense Architecture Framework (DoDAF). It also describes an approach for building netcentric knowledge-based contingency-driven systems. Section III guides graduate students, advanced DEVS users, and industry professionals who are interested in building DEVS virtual machines and netcentric SoS. It discusses modeling standardization, the deployment of models and simulators in a netcentric environment, event-driven architectures, and more. Section IV explores real-world case studies that

realize many of the concepts defined in the previous chapters. Section V outlines the next steps and looks at how the modeling of netcentric complex adaptive systems can be attempted using DEVS concepts. It touches on the boundaries of DEVS formalism and the future work needed to utilize advanced concepts like weak and strong emergence, self-organization, scale-free systems, runtime modularity, and event interoperability. This groundbreaking work details how DUNIP offers a well-structured, platform-independent methodology for the modeling and simulation of netcentric system of systems.

**Building J2EE Applications with the Rational Unified Process** Cambridge University Press

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 development is a process. The Unified Software Development Process Addison-Wesley Professional

The second edition of this text brings the content up to date and in compliance with Rational unified Process 2000. It defines the process, putting it into a proper software development context, reviewing the RUP history and providing detailed coverage of its

structure.

Software Development for Small Teams  
CRC Press

This book covers all you need to know to model and design software applications from use cases to software architectures in UML and shows how to apply the COMET UML-based modeling and design method to real-world problems. The author describes architectural patterns for various architectures, such as broker, discovery, and transaction patterns for service-oriented architectures, and addresses software quality attributes including maintainability, modifiability, testability, traceability, scalability, reusability, performance, availability, and security. Complete case studies illustrate design issues for different software architectures: a banking

system for client/server architecture, an online shopping system for service-oriented architecture, an emergency monitoring system for component-based software architecture, and an automated guided vehicle for real-time software architecture. Organized as an introduction followed by several short, self-contained chapters, the book is perfect for senior undergraduate or graduate courses in software engineering and design, and for experienced software engineers wanting a quick reference at each stage of the analysis, design, and development of large-scale software systems.

**Solution Designer (RUP)** Prentice Hall Professional

Larman covers how to investigate requirements, create solutions and then

translate designs into code, showing developers how to make practical use of the most significant recent developments. A summary of UML notation is included

**Implementing the IBM® Rational Unified Process® and Solutions: A Guide to Improving Your Software Development Capability and Maturity** Pearson Education

The Only Official RUP® Certification Prep Guide and Compact RUP Reference The IBM® Rational Unified Process® has become the de facto industry-standard process for large-scale enterprise software development. The IBM Certified Solution Designer - IBM Rational Unified Process V7.0 certification provides a powerful way for solutions developers to demonstrate their proficiency with RUP.



The first and only official RUP certification guide, this book fully reflects the latest versions of the Rational Unified Process and of the IBM RUP exam. Authored by two leading RUP implementers, it draws on extensive contributions and careful reviews by the IBM RUP process leader and RUP certification manager. This book covers every facet of RUP usage. It has been carefully organized to help you prepare for your exam quickly and efficiently--and to provide a handy, compact reference you can rely on for years to come. Coverage includes A full section on RUP exam preparation and a 52-question practice exam Core RUP concepts, the new RUP process architecture, and key principles of business-driven development RUP's

architecture-centric approach to iterative development: practical issues and scenarios Patterns for successful RUP project implementation--and "anti-patterns" to avoid The Unified Method Architecture (UMA): basic content and process elements RUP content disciplines, in depth: Business Modeling, Requirements, Analysis and Design, Implementation, Test, Deployment, Project Management, Change and Configuration Management, and Environment Essential RUP work products, roles, and tasks RUP phases, activities, and milestones RUP tailoring and tools for your organization--including introductions to IBM Rational Method Composer (RMC) and MyRUP  
**Unified Software Engineering with Java** John Wiley & Sons

bull; Written by expert practitioners who have hands-on experience solving real-world problems for large corporations  
 bull; Helps enterprise architects make sense of data, systems, software, services, product lines, methodologies, and much more  
 bull; Provides explanation of theory and implementation with real-world business examples to support key points

**Project Management with the IBM Rational Unified Process** Addison-Wesley

Is the Unified Process the be all and end all standard for developing object-oriented component-based software? This book is the final in a four volume series that presents a critical review of the Unified Process. The authors present a survey of the alte

### **The Unified Process Explained**

Addison-Wesley Professional Software Requirements Using the Unified Process: A Practical Approach presents an easy-to-apply methodology for creating requirements. Learn to build user requirements, requirements architecture, and the specifications more quickly and at a lower cost. The authors present realistic solutions for the entire requirements process: gathering, analysis, specification, and maintenance.

### **IBM Rational Unified Process**

**Reference and Certification Guide** IGI Global

- Helps organizations tackle the complexity of implementation and begin seeing immediate return on their significant RUP investment - Another in a successful line of books from authors at

Rational/IBM, and the latest in the acclaimed Object Technology Series - Significant co-marketing opportunities with Rational/IBM

*Netcentric System of Systems*

*Engineering with DEVS Unified Process*  
Prentice Hall

The Practical, Start-to-Finish Guide to Planning and Leading Iterative Software Projects Iterative processes have gained widespread acceptance because they help software developers reduce risk and cost, manage change, improve productivity, and deliver more effective, timely solutions. But conventional project management techniques don't work well in iterative projects, and newer iterative management techniques have been poorly documented. *Managing Iterative Software Development Projects*

is the solution: a relentlessly practical guide to planning, organizing, estimating, staffing, and managing any iterative project, from start to finish. Leading iterative development experts Kurt Bittner and Ian Spence introduce a proven, scalable approach that improves both agility and control at the same time, satisfying the needs of developers, managers, and the business alike. Their techniques are easy to understand, and easy to use with any iterative methodology, from Rational Unified Process to Extreme Programming to the Microsoft Solutions Framework. Whatever your role—team leader, program manager, project manager, developer, sponsor, or user representative—this book will help you Understand the key drivers of success in

iterative projects Leverage “time boxing” to define project lifecycles and measure results Use Unified Process phases to facilitate controlled iterative development Master core concepts of iterative project management, including layering and evolution Create project roadmaps, including release plans Discover key patterns of risk management, estimation, organization, and iteration planning Understand what must be controlled centrally, and what you can safely delegate Transition smoothly to iterative processes Scale iterative project management from the smallest to the largest projects Align software investments with the needs of the business Whether you are interested in software development using RUP, OpenUP, or other agile processes, this

book will help you reduce the anxiety and cost associated with software improvement by providing an easy, non-intrusive path toward improved results—without overwhelming you and your team.

[A RUP-centric Approach](#) Addison-Wesley Professional

This book presents the collected writings of OMT guru Dr James Rumbaugh. These articles encompass the development, refinement, and current state of OMT.

**UML, Use Cases, Patterns, and Software Architectures** eBookIt.com

Focuses on used software engineering methods and can de-emphasize or completely eliminate discussion of secondary methods, tools and techniques.

**Managing Iterative Software**

**Development Projects** Pearson  
Education India

The Road to the Unified Software  
Development Process Cambridge  
University Press

**A Desktop Seminar from Craig  
Larman** Addison-Wesley Professional  
The authors explain the underlying

software development principles behind  
theRUP, and guide readers in its  
application in their organization.

**Software Performance Prediction as  
Part of the Unified Software  
Development Process** Addison-Wesley  
Professional

PLEASE PROVIDE SUMMARY