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UML 2 and the Unified Process [UML 2 and the Unified Process](#) **The Unified Process Elaboration Phase** **The Unified Process Explained** **The Rational Unified Process** *The Unified Process Construction Phase* **The Unified Software Development Process** **Software Requirements Using the Unified Process** **UML and the Unified Process** **Guide to the Unified Process featuring UML, Java and Design Patterns** [The Road to the Unified Software Development Process](#) [The Rational Unified Process](#) **The Unified Process Inception Phase** [The Rational Unified Process Made Easy](#) *The Unified Process Inception Phase* **The Unified Process for Practitioners** **The Unified Process Transition and Production Phases** **The Unified Process Inception Phase** **The Unified Process UML and the Unified Process** **The Unified Process Construction Phase** **Object-oriented Analysis and Design with the Unified Process** **The Unified Software Development Process** *The Unified Process Construction Phase* [IBM Rational Unified Process Reference and Certification Guide](#) **The Unified Process Elaboration Phase** **The Rational Unified Process** *Topological UML Modeling* **Agile Modeling Adopting the Rational Unified Process** **Implementing the IBM Rational Unified Process and Solutions Software Engineering Process with the UPEDU** [Project Management with the IBM Rational Unified Process](#) *Effective Software Project Management* *Unified Process A Complete Guide - 2020 Edition* [Netcentric System of Systems Engineering with DEVS](#) [Unified Process](#) **Object-Oriented Analysis and Design Using UML Building J2EE Applications with the Rational Unified Process** **Unified Process APPLYING UML & PATTERNS 3RD EDITION**

· Master win-win techniques for managing outsourced and offshore projects, from procurement and risk mitigation to maintenance · Use RUP to implement best-practice project management throughout the software development lifecycle · Overcome key management challenges, from changing requirements to managing user expectations *The Hands-On, Start-to-Finish Guide to Managing Software Projects with the IBM® Rational Unified Process®* This is the definitive guide to managing software development projects with the IBM Rational Unified Process (RUP®). Drawing on his extensive experience managing projects with the RUP, R. Dennis Gibbs covers the entire development lifecycle, from planning and requirements to post-mortems and system maintenance. Gibbs offers especially valuable insights into using the RUP to manage outsourced projects and any project relying on distributed development teams—outsourced, insourced, or both. This “from the trenches” guidebook is invaluable for anyone interested in best practices for managing software development: project managers, team leaders, procurement and contracting specialists, quality assurance and software process professionals, consultants, and developers. If you’re already using the RUP, Gibbs will help you more effectively use it. Whatever your role or the RUP experience, you’ll learn ways to · Simplify and streamline the management of any large-scale or outsourced project · Overcome the challenges of using the RUP in software project management · Optimize software procurement and supplier relationships, from Request for Proposals (RFPs) and contracts to delivery · Staff high-performance project teams and project management offices · Establish productive, consistent development environments · Run effective project kickoffs · Systematically identify and mitigate project risks · Manage the technical and business challenges of changing requirements · Organize iterations and testing in incremental development processes · Transition new systems into service: from managing expectations to migrating data · Plan system maintenance and implement effective change control · Learn all you can from project post-mortems—and put those lessons into practice Is the Unified Process the be all and end all standard for developing object-oriented component-based software? This book is the third in a four volume series that presents a critical review of the Unified Process. The authors present a survey of the alte This powerful Unified Process self-assessment will make you the dependable Unified Process

domain standout by revealing just what you need to know to be fluent and ready for any Unified Process challenge. How do I reduce the effort in the Unified Process work to be done to get problems solved? How can I ensure that plans of action include every Unified Process task and that every Unified Process outcome is in place? How will I save time investigating strategic and tactical options and ensuring Unified Process opportunity costs are low? How can I deliver tailored Unified Process advice instantly with structured going-forward plans? There's no better guide through these mind-expanding questions than acclaimed best-selling author Gerard Blokdyk. Blokdyk ensures all Unified Process essentials are covered, from every angle: the Unified Process self-assessment shows succinctly and clearly that what needs to be clarified to organize the business/project activities and processes so that Unified Process outcomes are achieved. Contains extensive criteria grounded in past and current successful projects and activities by experienced Unified Process practitioners. Their mastery, combined with the uncommon elegance of the self-assessment, provides its superior value to you in knowing how to ensure the outcome of any efforts in Unified Process are maximized with professional results. Your purchase includes access to the \$249 value Unified Process self-assessment dashboard download which gives you your dynamically prioritized projects-ready tool and shows your organization exactly what to do next. Your exclusive instant access details can be found in your book. Why another book on software project management? For some time, the fields of project management, computer science, and software development have been growing rapidly and concurrently. Effective support for the enterprise demands the merging of these efforts into a coordinated discipline, one that incorporates best practices from both systems development and project management life cycles. Robert K. Wysocki creates that discipline in this book--a ready reference for professionals and consultants as well as a textbook for students of computer information systems and project management. By their very nature, software projects defy a "one size fits all" approach. In these pages you will learn to apply best-practice principles while maintaining the flexibility that's essential for successful software development. Learn how to make the planning process fit the need * Understand how and why software development must be planned on a certainty-to-uncertainty continuum * Categorize your projects on a four-quadrant model * Learn when to use each of the five SDPM strategies--Linear, Incremental, Iterative, Adaptive, and Extreme * Explore the benefits of each strategic model and what types of projects it supports best * Recognize the activities that go into the Scoping, Planning, Launching, Monitoring/Controlling, and Closing phases of each strategy * Apply this knowledge to the specific projects you manage * Get a clear picture of where you are and how to get where you want to go What it is that your organization is aiming to do - and is collaboration better than communication? What is the role of tests, responsibilities, patterns, models, ? Is the proposed software product cost effective? What is the role of objects, layers, architecture, ..? Which existing technology can be used to meet the previously established requirements? This exclusive Unified Process self-assessment will make you the entrusted Unified Process domain adviser by revealing just what you need to know to be fluent and ready for any Unified Process challenge. How do I reduce the effort in the Unified Process work to be done to get problems solved? How can I ensure that plans of action include every Unified Process task and that every Unified Process outcome is in place? How will I save time investigating strategic and tactical options and ensuring Unified Process costs are low? How can I deliver tailored Unified Process advice instantly with structured going-forward plans? There's no better guide through these mind-expanding questions than acclaimed best-selling author Gerard Blokdyk. Blokdyk ensures all Unified Process essentials are covered, from every angle: the Unified Process self-assessment shows succinctly and clearly that what needs to be clarified to organize the required activities and processes so that Unified Process outcomes are achieved. Contains extensive criteria grounded in past and current successful projects and activities by experienced Unified Process practitioners. Their mastery,

combined with the easy elegance of the self-assessment, provides its superior value to you in knowing how to ensure the outcome of any efforts in Unified Process are maximized with professional results. Your purchase includes access details to the Unified Process self-assessment dashboard download which gives you your dynamically prioritized projects-ready tool and shows you exactly what to do next. Your exclusive instant access details can be found in your book. You will receive the following contents with New and Updated specific criteria: - The latest quick edition of the book in PDF - The latest complete edition of the book in PDF, which criteria correspond to the criteria in... - The Self-Assessment Excel Dashboard - Example pre-filled Self-Assessment Excel Dashboard to get familiar with results generation - In-depth and specific Unified Process Checklists - Project management checklists and templates to assist with implementation INCLUDES LIFETIME SELF ASSESSMENT UPDATES Every self assessment comes with Lifetime Updates and Lifetime Free Updated Books. Lifetime Updates is an industry-first feature which allows you to receive verified self assessment updates, ensuring you always have the most accurate information at your fingertips. A practical guide to the essentials of both UML (Unified Modelling Language) and the Unified Process, aimed at the Objected Oriented (OO) designer or analyst. It provides a quick, focused tour through the early stages of the OO software development process -analysis and design. The text introduces and explains the need-to-know concepts and key elements of both UML and the Unified Process. It seeks to get the reader up to speed on successful techniques that can be immediately applied and used - the emphasis is on information that is useful from the point of view of the OO analyst and designer, and that can be applied straight away. PLEASE PROVIDE SUMMARY Is the Unified Process the be all and end all standard for developing object-oriented component-based software? This book is the third in a four volume series that presents a critical review of the Unified Process. The authors present a survey of the alte Is the Unified Process the be all and end all standard for developing object-oriented component-based software? This book is the second in a four volume series that presents a critical review of the Unified Process. The authors present a survey of the alt 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, run-time 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. The first book to cover Agile Modeling, a new modeling technique created specifically for XP projects eXtreme Programming (XP) has created a buzz in the software development community-much like Design Patterns did several years ago. Although XP presents a methodology for faster software development, many developers find that XP does not allow for modeling time, which is critical to ensure that a project meets its proposed requirements. They have also found that standard modeling techniques that use the Unified Modeling Language (UML) often do not work with this methodology. In this innovative book, Software Development columnist Scott Ambler presents Agile Modeling (AM)-a technique that he created for modeling XP projects using pieces of the UML and Rational's Unified Process (RUP). Ambler clearly explains AM, and shows readers how to incorporate AM, UML, and RUP into their development projects with the help of numerous case studies integrated throughout the book. AM was created by the author for modeling XP projects-an element lacking in the original XP design The XP community and its creator have embraced AM, which should give this book strong market acceptance Companion Web site at www.agilemodeling.com features updates, links to XP and AM resources, and ongoing case studies about agile modeling. 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 Is the Unified Process the be all and end all standard for developing object-oriented component-based software? Scott Ambler doesn't think so. This book is one in a four-volume series that presents a critical review of the Unified Process -- designed to p 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 This pure Object-Oriented approach gives students a cutting edge approach to the future of the design and analysis market. 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. 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 Topological UML Modeling: An Improved Approach for Domain Modeling and Software Development presents a specification for Topological UML® that combines the formalism of the Topological Functioning Model (TFM) mathematical topology with a specified software analysis and design method. The analysis of problem domain and design of desired solutions within software development processes has a major impact on the achieved result - developed software. While there are many tools and different techniques to create detailed specifications of the solution, the proper analysis of problem domain functioning is ignored or covered insufficiently. The design of object-oriented software has been led for

many years by the Unified Modeling Language (UML®), an approved industry standard modeling notation for visualizing, specifying, constructing, and documenting the artifacts of a software-intensive system, and this comprehensive book shines new light on the many advances in the field. Presents an approach to formally define, analyze, and verify functionality of existing processes and desired processes to track incomplete or incorrect functional requirements Describes the path from functional and nonfunctional requirements specification to software design with step-by-step creation and transformation of diagrams and models with very early capturing of security requirements for software systems. Defines all modeling constructs as extensions to UML®, thus creating a new UML® profile which can be implemented in existing UML® modeling tools and toolsets 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. "Unified Modeling Language (UML), Unified Process (UP), and other information modeling methods are addressed in this scholarly consideration of the analysis, design, and development of web-based and enterprise applications. The most current research on conceptual, theoretical, and empirical issues of modeling for online business and static information is provided." John Hunt's book guides you through the use of the UML and the Unified Process and their application to Java systems. Key topics focus explicitly on applying the notation and the method to Java. The book is clearly structured and written, making it ideal for practitioners. This second edition is considerably revised and extended and includes examples taken from the latest version of Rational Rose and Together. Considers how Agile Modelling fits with the Unified Process, and presents Design Patterns Self contained - covers both the Unified Process and UML in one book Includes real-world case studies Written by an experienced author and industry expert Ideal for students on Software Engineering courses Since its inception Research in Labor Economics has published over 350 articles encompassing a wide range of themes and spanning an array of labor economics topics. Authors have ranged from young scholars with much potential to mature leaders in the field, including Nobel Prize and John Bates Clark award winners. Over the years Research in Labor Economics has continued to present important new research in labor economics. It covers themes such as labor supply, work effort, schooling, on-the-job training, earnings distribution, discrimination, migration, and the effects of government policies on worker well-being. It aims to apply economic theory and econometrics to analyze important policy-related questions, often with an international focus. To commemorate Research in Labor Economics's 35th anniversary, this retrospective edition contains 20 of the most influential Research in Labor Economics articles along with new introductory prefatory updates written by the original authors. These new prefaces emphasize recent developments that each article might have inspired and also discuss remaining unanswered questions. Is the Unified Process the be all and end all standard for developing object-oriented component-based software? This book is the third in a four volume series that presents a critical review of the Unified Process. The authors present a survey of the alte Is the Unified Process the be all and end all standard for developing object-oriented component-based software? Scott Ambler doesn't think so. This book is one in a four-volume series that presents a critical review of the Unified Process -- designed to p Is the Unified Process the be all and end all standard for developing object-oriented component-based software? This book is the second in a four volume series that presents a critical review of the Unified Process. The authors present a survey of the alt A modern computer program, such as the one that controls a rocket's journey to moon, is like a medieval cathedral—vast, complex, layered with circuits and mazes. To write such a program, which probably runs into a hundred thousand lines or more, knowledge of an object-oriented language like Java or C++ is not enough. Unified Modelling Language (UML), elaborated in detail in this book, is a methodology that assists in the design of software systems. The first task in the making of a software product is to gather requirements from the client. This well-organized and clearly presented text develops a formal method to write down these requirements as Use Cases in UML. Besides, it also develops the concepts of static and dynamic modelling and the Unified Process that suggests incremental and iterative development of software, taking client feedback at every step. The concept of Design Patterns which provide solutions to problems that occur repeatedly during software development is discussed in detail in the concluding chapters. Two appendices provide solutions to two real-life problems. Case Studies, mapping of examples into Java code that are executable on

computers, summary and Review Questions at the end of every chapter make the book reader friendly. The book will prove extremely useful to undergraduate and postgraduate students of Computer Science and Engineering, Information Technology, and Master of Computer Applications (MCA). It will also benefit professionals who wish to sharpen their programming skills using UML. This concise book offers a quick introduction to the concepts, structure, content, and motivation of the Rational Unified Process. This revolutionary software development process provides a disciplined approach to assigning, managing, and completing tasks within a software development organization and is the first development process to exploit the full capabilities of the industry-standard Unified Modeling Language. The Rational Unified Process is unique in that it captures many of the proven best practices in modern software development and presents them in a form that can be tailored to a wide range of projects and organizations. In this book, you will discover: what the Rational Unified Process is - and what it is not; the concepts used in the Rational Unified Process, as well as its structure; the best practices that have been synthesized into this process; and how this process can provide the guidance you need for your specific project responsibilities. "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 - 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 Ivar Jacobson, one of the Three Amigos of Rational, follows his fellow amigos, Grady Booch and James Rumbaugh, with the publication of The Road to the Unified Software Development Process, his own collection of the best of his work. Together with Stefan Bylund, Dr. Jacobson has gathered the best of his articles from Object Magazine, JOOP, and ROAD, and updated them to reflect current trends in the industry. This book not only presents the best of his work, but it also tracks the development of the new Unified Software Development Process. This book is an excellent reference for software professionals who are interested in analysis and design. It provides real-world experience in developing quality software through disciplined engineering. The Authoritative, Best-Practice Guide to Improving Development Processes with IBM® Rational Unified Process® (RUP®) This book delivers all the knowledge and insight you need to succeed with the IBM Rational Unified Process and Solutions. Joshua Barnes presents a start-to-finish, best-practice roadmap to the complete implementation cycle of IBM RUP—from projecting ROI and making the business case through piloting, implementation, mentoring, and beyond. Drawing on his extensive experience leading large-scale IBM RUP implementations and working with some of the industry's most recognized thought leaders in the Software Engineering Process world, Barnes brings together comprehensive "lessons learned" from both successful and failed projects. You'll

learn from real-world case studies, including actual project artifacts. Whether you're an executive, software professional, or consultant, this book will help you continuously improve the maturity of your development processes—and reap the benefits: better quality, faster delivery, and more business value. After reading this book you will be able to

- Get past the myths of software process improvement to focus on what's truly practical
- Identify and evaluate your best candidate process solutions
- Objectively project the ROI achievable with IBM RUP and IBM Rational solutions
- Develop funding models, business cases, and executive support
- Recruit, staff, organize, and motivate your implementation team
- Plan for effective integration, process alignment, and change management
- Choose the right pilots, learn the right lessons, and develop effective adoption models
- Move quickly to successful program-level implementation
- Set maturity level goals for process and tool utilization
- Map “End States” for both quantity and quality
- Plan for training and mentoring—and understand the distinct role of each
- Keep the momentum going after your implementation is complete

Link to www.upmentors.com, where you can download actual sample implementation documents—not just templates! www.ibmpressbooks.com

Preface xvii Acknowledgments xxiii About the Author xxv Chapter 1: Evaluating Process Solutions 1 Chapter 2: Your First Steps Toward Implementing RUP and IBM Rational Solutions 17 Chapter 3: Assessing Your Organization and Building Your Business Case for Organizational Change 29 Chapter 4: Implementation Team 49 Chapter 5: Setting Up Pre-Integrated and Process-Aligned Tooling 67 Chapter 6: Implementation Approach 75 Chapter 7: Transitioning to a Program Approach 99 Chapter 8: Funding Model 117 Chapter 9: Training and Mentoring Models 131 Chapter 10: Is Your Implementation Complete? 149 Appendix 1: Executive ROI Overview 155 Appendix 2: Detailed Appendix for Executive ROI Overview 159 Appendix 3: Maturity Level Goals—Sample Tasks 167 Index 175

The Unified Process for Practitioners guides the reader through the use of the Unified Modeling Language (UML) and the Unified Process, and their application to Java systems. The first part provides a practical introduction to object-oriented analysis and design using the Unified Process. The UML is introduced and a complete listing of the UML is provided as an appendix. The second part focuses on the real world use of UML and the Unified Process, including a detailed case study taking a system from initial inception to Java implementation. This book provides a general introduction to the essentials of the software development process, that series of activities that facilitate developing better software in less time. It starts with the basic aspects of software process which are the methods, tools and the concepts of the software life cycle. The second and third parts emphasize the engineering and management disciplines that are the core of any software engineering process. The fourth part, which is concerned with the quality aspects of software process, presents the aspects of process assessment and measurement. The last chapter introduces a software process metamodel, which is the theoretical foundation for any software process. The approach is general, and the explanations are not tied to a particular commercial process. The book includes an ongoing case study example which does use the Unified Process for Education, which is derived from The Rational Unified Process. This book thus enables readers to gain experience with some of the basics of the Rational Unified Process the industry's most powerful tool for incorporating the best practices into software development and prepares them to work with any organization's software process. The book includes a robust Website with all the sample deliverables and artifacts created from the case study, as well as chapter-by-chapter sections with further, up-to-date readings on process advancements, the PDF files for all the figures in the book, links to Software Engineering news sites, chapter by chapter information on commercial tools, industry standards, etc. Is the Unified Process the be all and end all standard for developing object-oriented component-based software? This book is the second in a four volume series that presents a critical review of the Unified Process. The authors present a survey of the alt 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). 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 The authors explain the underlying software development principles behind theRUP, and guide readers in its application in their organization.

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- [The Unified Process Construction Phase](#)
- [The Unified Software Development Process](#)
- [Software Requirements Using The Unified Process](#)
- [UML And The Unified Process](#)
- [Guide To The Unified Process Featuring UML Java And Design Patterns](#)
- [The Road To The Unified Software Development Process](#)
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- [The Rational Unified Process Made Easy](#)
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