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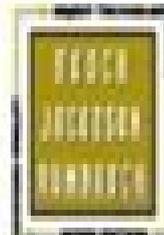
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Foreword by Grady Booch

Applied Software Architecture A Practical Guide For Software Designers

Richard N. Taylor,Nenad Medvidovic,Eric Dashofy

Applied Software Architecture A Practical Guide For Software Designers:

   Applied Software Architecture Christine Hofmeister,Robert Nord,Dilip Soni,2000 Designing a large software system is an extremely complicated undertaking that requires juggling differing perspectives and differing goals and evaluating differing options Applied Software Architecture is the best book yet that gives guidance as to how to sort out and organize the conflicting pressures and produce a successful design Len Bass author of Software Architecture in Practice Quality software architecture design has always been important but in today s fast paced rapidly changing and complex development environment it is essential A solid well thought out design helps to manage complexity to resolve trade offs among conflicting requirements and in general to bring quality software to market in a more timely fashion Applied Software Architecture provides practical guidelines and techniques for producing quality software designs It gives an overview of software architecture basics and a detailed guide to architecture design tasks focusing on four fundamental views of architecture conceptual module execution and code Through four real life case studies this book reveals the insights and best practices of the most skilled software architects in designing software architecture These case studies written with the masters who created them demonstrate how the book s concepts and techniques are embodied in state of the art architecture design You will learn how to create designs flexible enough to incorporate tomorrow s technology use architecture as the basis for meeting performance modifiability reliability and safety requirements determine priorities among conflicting requirements and arrive at a successful solution and use software architecture to help integrate system components Anyone involved in software architecture will find this book a valuable compendium of best practices and an insightful look at the critical role of architecture in software development 0201325713B07092001   *A Practical Guide to Testing Object-oriented Software* John D. McGregor,David A. Sykes,2001 David A Sykes is a member of Wofford College s faculty   *Designing Software Architectures* Humberto Cervantes,Rick Kazman,2016-04-29 Designing Software Architectures will teach you how to design any software architecture in a systematic predictable repeatable and cost effective way This book introduces a practical methodology for architecture design that any professional software engineer can use provides structured methods supported by reusable chunks of design knowledge and includes rich case studies that demonstrate how to use the methods Using realistic examples you ll master the powerful new version of the proven Attribute Driven Design ADD 3 0 method and will learn how to use it to address key drivers including quality attributes such as modifiability usability and availability along with functional requirements and architectural concerns Drawing on their extensive experience Humberto Cervantes and Rick Kazman guide you through crafting practical designs that support the full software life cycle from requirements to maintenance and evolution You ll learn how to successfully integrate design in your organizational context and how to design systems that will be built with agile methods Comprehensive coverage includes Understanding what architecture design involves and where it fits in the full software development life cycle Mastering core design concepts principles and processes

Understanding how to perform the steps of the ADD method Scaling design and analysis up or down including design for pre sale processes or lightweight architecture reviews Recognizing and optimizing critical relationships between analysis and design Utilizing proven reusable design primitives and adapting them to specific problems and contexts Solving design problems in new domains such as cloud mobile or big data **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 SalesDo 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 develo **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 **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   *The Art of ClearCase Deployment* Christian D. Buckley,Darren W. Pulsipher,2005   **Software Configuration Management Strategies and Rational ClearCase** Brian A. White,2000 An introduction to the core practices of software configuration management a software engineering discipline that secures against cost over runs while insuring project timeliness and quality   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   Real Time UML Bruce Powel Douglass,2004 Covers UML 2 0   **Software Architecture** Richard N. Taylor,Nenad Medvidovic,Eric Dashofy,2009-01-09 Software architecture is foundational to the development of large practical software intensive applications This brand new text covers all facets of software architecture and how it serves as the intellectual centerpiece of software development and evolution Critically this text focuses on supporting creation of real implemented systems Hence the text details not only modeling techniques but design implementation deployment and system adaptation as well as a host of other topics putting the elements in context and comparing and contrasting them with one another Rather than focusing on one method notation tool or process this new text reference widely surveys software architecture techniques enabling the instructor and practitioner to choose the right tool for the job at hand Software Architecture is intended for upper division undergraduate and graduate courses in software architecture software design component based software engineering and distributed systems the text may also be used in introductory as well as advanced software engineering courses   **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   **Design and Use of Software Architectures** Jan Bosch,2000 A practical guide to designing and implementing software architectures   *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   Modeling XML Applications with UML David Carlson,2001 XML is rapidly becoming the standard platform for delivering e Business information and integrating e Business systems XML developers desperately need mature software development processes and tools for developing effective applications David Carlson fills the gap showing exactly how to leverage the worldwide UML standard for modeling complex systems in advanced XML development In Modeling XML Applications with UML he presents the first comprehensive framework for modeling communications in any B2B software system Carlson presents in depth coverage of UML based analysis design and modeling of XML content within e Business environments The book includes detailed coverage of using UML to support the creation of new XML based B2B vocabularies and industry portals that reflect the requirements of several key stakeholder communities including consumers business analysts web application specialists system integration specialists and content developers Carlson presents several B2B use cases and then decomposes them into scenarios illustrated with class diagrams sequence diagrams and activity diagrams showing how XML fits into an overall e Business solution Each chapter concludes with steps for success that distill UML s general principles into specific recommendations for action   ATL Internals Chris Tavares,2007 The Active Template Library ATL is a set of small efficient and flexible classes created by Microsoft that facilitate the creation of interoperable components for developing Windows applications The latest version of ATL is version 8 released with Visual Studio 2005 While NET has been getting all the attention recently there is still a huge base of installed COM ATL code Many programmers are dealing with difficult issues adding new NET code to that installed base At the same time there are many instances where ATL is still the superior choice for new applications applications that have to run fast and efficiently on Windows where the CPU doesn t have the memory or bandwidth to run NET This book will be a godsend to developers in both of those situations As one tech reviewer put it Any programmer needing to transition ATL code to NET will need this book The first edition was widely praised and sold close to 20 000 units While ATL is no longer the cutting edge of Microsoft developer tools there should still be a strong market for authoritative complete deep coverage of the newest version of this standard tool   *Building J2EE Applications with the Rational Unified Process* Peter Eeles,Kelli Houston,Wojtek Kozaczynski,2003 PLEASE PROVIDE SUMMARY   **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   **Adopting the Rational Unified Process** Stefan Bergström,Lotta Råberg,2004 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   **Object Modeling and User Interface Design** Mark Van Harmelen,2001 Object Modeling and User Interface Design merges theories with practical techniques to create methods for the design to today s systems By reading this book you will gain an understanding of the benefits of integrating object oriented analysis approaches with human computer interaction design and learn how to systematically design interactive systems for their human users BOOK JACKET

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