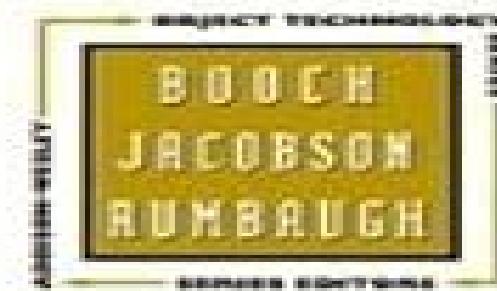


DESIGNING CONCURRENT, DISTRIBUTED, AND REAL-TIME APPLICATIONS WITH UML

HASSAN GOMAA

Forewords by Peter Freeman and Brian Sculley



Designing Concurrent Distributed And Real Time Applications With Uml

Richard H. Thayer, Mark J. Christensen

Designing Concurrent Distributed And Real Time Applications With Uml:

Designing Concurrent, Distributed, and Real-time Applications with UML Hassan Gomaa,2000 Suitable for real world systems that deal with complex issues such as concurrency and real time constraints Providing detailed guidelines this book is useful for software engineers

Real-Time Software Design for Embedded Systems Hassan Gomaa,2016-05-26

This tutorial reference takes the reader from use cases to complete architectures for real time embedded systems using SysML UML and MARTE and shows how to apply the COMET RTE design method to real world problems The author covers key topics such as architectural patterns for distributed and hierarchical real time control and other real time software architectures performance analysis of real time designs using real time scheduling and timing analysis on single and multiple processor systems Complete case studies illustrating design issues include a light rail control system a microwave oven control system and an automated highway toll system Organized as an introduction followed by several self contained chapters the book is perfect for experienced software engineers wanting a quick reference at each stage of the analysis design and development of large scale real time embedded systems as well as for advanced undergraduate or graduate courses in software engineering computer engineering and software design

Design and Analysis of Distributed

Embedded Systems Bernd Kleinjohann,K.H. (Kane) Kim,Lisa Kleinjohann,Achim Rettberg,2002-07-31 Design and Analysis of Distributed Embedded Systems is organized similar to the conference Chapters 1 and 2 deal with specification methods and their analysis while Chapter 6 concentrates on timing and performance analysis Chapter 3 describes approaches to system verification at different levels of abstraction Chapter 4 deals with fault tolerance and detection Middleware and software reuse aspects are treated in Chapter 5 Chapters 7 and 8 concentrate on the distribution related topics such as partitioning scheduling and communication The book closes with a chapter on design methods and frameworks

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.

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.

Techniques and Tools for Model-based Design and Analysis of Embedded Real-time Software Zonghua Gu, 2004

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

Software Modeling and Design Hassan Gomaa, 2011-02-21 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.

Developing Enterprise Java Applications with J2EE and UML Khawar Zaman, Ahmed, Cary E. Umrysh, 2002 The Java 2 Platform Enterprise Edition J2EE™ 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™ 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.

Software Engineering, The Development Process Richard H. Thayer, Mark J. Christensen, 2005-11-11. This book integrates a useful set of software engineering standards with accompanying papers on specific knowledge areas in software engineering. Used as a CSDP resource guide, it should improve a test taker's ability to pass the IEEE CSDP Certified Software Development Professionals exam.

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.

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 overruns while insuring project timeliness and quality.

UML and the Unified Process Jim Arlow, Ilia Neustadt, 2002. 1. What is UML? 2. What is the Unified Process? 3. The requirements workflow. 4. Use case modeling. 5. Advanced use case modeling. 6. The analysis workflow. 7. Objects and classes. 8. Finding analysis classes. 9. Relationships. 10. Inheritance and polymorphism. 11. Analysis packages. 12. Use case realization. 13. Advanced use case realization. 14. The design workflow. 15. Design classes. 16. Refining analysis relationships. 17. Interfaces and components. 18. Use case realization design. 19. Basic statecharts. 20. Advanced statecharts. 21. The implementation workflow. 22. Components. 23. Deployment.

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 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 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 of 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 **Real-time Embedded Components and Systems** Sam Siewert, 2007 Due to the rapidly expanding market for digital media services and systems there is a growing interest in real time systems. Real Time Embedded Systems and Components is a much needed resource addressing this field for practicing engineers and students particularly engineers moving from best effort applications to hard or soft real time applications. The book is written to teach practicing engineers how to apply real time theory to the design of embedded components and systems in order to successfully build a real time embedded system. It is also intended to provide a balance of fundamental theory review of industry practice and hands on experience for undergraduate seniors or first year grad students preparing for a career in the real time embedded system industries. Throughout the book you'll explore hard real time theory and soft real time concepts, real time scheduling, debugging components, high availability and high reliability design, system lifecycles and the processes for hardware firmware and software development for systems built from components. And you'll find a balance of theory, practice and applications to help you learn the fundamental concepts needed to build your own real time embedded system.

Component-based Product Line Engineering with UML Colin Atkinson, 2002 A cutting edge UML based approach to software development and maintenance that integrates component based and product line engineering methods. The ripe market development of component based technologies is a major growth area. CBD viewed as a faster more flexible way of building systems that can easily be adapted to meet rapidly changing business needs and integrate legacy and new applications. e.g. Forrester report in June 1998 predicted that by 2001 half of packaged apps vendors will deliver component based apps. e.g. Butler Group Management Briefing 2000. Butler Group is now advising that all new build and significant modification activity should be based on component architectures. Butler Group believes that Component Based Development is one of the most important events in the evolution of information technology. e.g. Gartner Group estimates that by 2003 70% of new applications will be deployed as a combination of pre assembled and newly created components integrated to form complex business systems. The book defines, describes and shows how to use a method for component based product line engineering supported by UML. This method aims to dramatically increase the level of reuse in software development by integrating the strengths of both of these approaches. UML is used to describe components during the analysis design, ERP business software system as appendix or separate chapter, bibliography, glossary, appendices covering UML profiles, concise process description in the form of UML activity diagrams, refinement, translation patterns.

AUDIENCE Software engineers, architects, project managers. Software engineers working in the area of distributed enterprise systems who want a method for

applying a component based or product line engineering approach in practice UML Components John Cheesman, John Daniels, 2001 The UML was conceived and first implemented as a language for describing the design of object oriented programs Its widespread adoption and inherent flexibility has inevitably led to its use in other areas including the design of component based systems While it is not a perfect fit for component based development this book describes how best to use UML 1.3 in the specification and design of medium to large systems that utilize server side component technologies

Realizing E-business with Components Paul Allen, 2001 We are all well aware of the growth e business initiatives What you may not realize is the growth in components use According to Gartner Group By 2003 at least 70 percent of the total number of new applications will be built primarily from building blocks Component based development the Next Wave Research Note Jan 1999 This book is designed to give practical help by showing how a company can evolve its e business capability using a step by step component based approach providing innovation while leveraging investments in existing systems and software packages Components provide an ideal underlying fabric for the new world of e Business They offer flexible services that can be reused across organizational and geographical boundaries in different combinations which reflects the open fluid nature of Internet business

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