

Object Oriented Modeling And Design James Rumbaugh

BPM 2007 International Workshops, BPI, BPD, CBP, ProHealth, RefMod, semantics4ws, Brisbane, Australia, September 24, 2007, Revised Selected Papers

Object-oriented modeling and design

A Brain Friendly Guide to OOA&D

Object Modeling and User Interface Design

A Model-driven Approach

APPLYING UML & PATTERNS 3RD EDITION

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Modeling the World in Data

Object Oriented Modeling And Design James Rumbaugh

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TAYLOR KORBIN

BPM 2007 International Workshops, BPI, BPD, CBP, ProHealth, RefMod, semantics4ws, Brisbane, Australia, September 24, 2007, Revised Selected Papers

BoD – Books on Demand

Object Oriented Simulation will qualify as a valuable resource to students and accomplished professionals and researchers alike, as it provides an extensive, yet comprehensible introduction to the basic principles of object-oriented modeling, design and implementation of simulation models. Key features include an introduction to modern commercial graphical simulation and animation software, accessible breakdown of OOSimL language constructs through various programming principles, and extensive tutorial materials ideal for undergraduate classroom use.

Object-oriented modeling and design Object-oriented Modeling and Design with UML

Object-Oriented Information Engineering: Analysis, Design, and Implementation discusses design, both its object-oriented and traditional development and analysis, on which the book gives much focus. The book begins with an introduction to information engineering and its phases, object-oriented information engineering, and object orientation. The text then moves on to more specific topics, such as business information requirements; detailed object modeling; business functions and subject areas; and individual object behaviors and object interactions. The book also explains the integration and validation of analysis models; object structure designs; and system designs and its different applications. The text is recommended for undergraduates and practitioners of computer and/or information engineers who want to learn more about object-oriented design, its relation with traditional design, and its analysis. The book is also for those who wish to contribute and conduct further studies in the field of object-oriented design.

A Brain Friendly Guide to OOA&D Academic Press

This book explains how to model a problem domain by abstracting objects, attributes, and relationships from observations of the real world. It provides a wealth of examples, guidelines, and suggestions based on the authors' extensive experience in both real time and commercial software development. This book describes the first of three steps in the method of Object-Oriented Analysis. Subsequent steps are described in Object Lifecycles by the same authors.

Object Modeling and User Interface Design Cambridge University Press

Object-oriented techniques and languages have been proven to significantly increase engineering efficiency in software development. Many benefits are expected from their introduction into electronic modeling. Among them are better support for model reusability and flexibility, more efficient system modeling, and more possibilities in design space exploration and prototyping. Object-Oriented Modeling explores the latest techniques in object-oriented methods, formalisms and hardware description language extensions. The seven chapters comprising this book provide an overview of the latest object-oriented techniques for designing systems and hardware. Many examples are given in C++, VHDL and real-time programming languages. Object-Oriented Modeling describes further the use of object-oriented techniques in applications such as embedded systems, telecommunications and real-time systems, using the very latest techniques in object-oriented modeling. It is an essential guide to researchers, practitioners and students involved in software, hardware and system design.

A Model-driven Approach Elsevier

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

APPLYING UML & PATTERNS 3RD EDITION Springer Science & Business Media

Object-Oriented Design with UML and Java provides an integrated introduction to object-oriented

design with the Unified Modelling Language (UML) and the Java programming language. The book demonstrates how Java applications, no matter how small, can benefit from some design during their construction. Fully road-tested by students on the authors' own courses, the book shows how these complementary technologies can be used effectively to create quality software. It requires no prior knowledge of object orientation, though readers must have some experience of Java or other high level programming language. This book covers object technology; object-oriented analysis and design; and implementation of objects with Java. It includes two case studies dealing with library applications. The UML has been incorporated into a graphical design tool called ROME, which can be downloaded from the book's website. This object modelling environment allows readers to prepare and edit various UML diagrams. ROME can be used alongside a Java compiler to generate Java code from a UML class diagram then compile and run the resulting application for hands-on learning. This text would be a valuable resource for undergraduate students taking courses on O-O analysis and design, O-O modelling, Java programming, and modelling with UML. * Integrates design and implementation, using Java and UML * Includes case studies and exercises * Bridges the gap between programming texts and high level analysis books on design

An Introduction to Object-Oriented Modeling Pearson

This new book refines, customizes, and extends the general Object Modeling Technique (OMT) methodology for the specific subject matter of database applications. By restricting the scope of coverage, the authors are able to present more focused examples and elaborate upon the appropriate methodological steps. The authors present a uniform treatment that addresses files, relational databases, and object-oriented databases.

Object Oriented Modeling and Design Addison Wesley Longman

"Head First Object Oriented Analysis and Design is a refreshing look at subject of OOAD. What sets this book apart is its focus on learning. The authors have made the content of OOAD accessible, usable for the practitioner." Ivar Jacobson, Ivar Jacobson Consulting "I just finished reading HF OOA&D and I loved it! The thing I liked most about this book was its focus on why we do OOA&D-to write great software!" Kyle Brown, Distinguished Engineer, IBM "Hidden behind the funny pictures and crazy fonts is a serious, intelligent, extremely well-crafted presentation of OO Analysis and Design. As I read the book, I felt like I was looking over the shoulder of an expert designer who was explaining to me what issues were important at each step, and why." Edward Sciore, Associate Professor, Computer Science Department, Boston College Tired of reading Object Oriented Analysis and Design books that only makes sense after you're an expert? You've heard OOA&D can help you write great software every time-software that makes your boss happy, your customers satisfied and gives you more time to do what makes you happy. But how? Head First Object-Oriented Analysis & Design shows you how to analyze, design, and write serious object-oriented software: software that's easy to reuse, maintain, and extend; software that doesn't hurt your head; software that lets you add new features without breaking the old ones. Inside you will learn how to: Use OO principles like encapsulation and delegation to build applications that are flexible Apply the Open-Closed Principle (OCP) and the Single Responsibility Principle (SRP) to promote reuse of your code Leverage the power of design patterns to solve your problems more efficiently Use UML, use cases, and diagrams to ensure that all stakeholders are communicating clearly to help you deliver the right software that meets everyone's needs. By exploiting how your brain works, Head First Object-Oriented Analysis & Design compresses the time it takes to learn and retain complex information. Expect to have fun, expect to learn, expect to be writing great software consistently by the time you're finished reading this!

Object-oriented Modeling And Design With Uml Ajit Singh

This textbook mainly addresses beginners and readers with a basic knowledge of object-oriented programming languages like Java or C#, but with little or no modeling or software engineering

experience – thus reflecting the majority of students in introductory courses at universities. Using UML, it introduces basic modeling concepts in a highly precise manner, while refraining from the interpretation of rare special cases. After a brief explanation of why modeling is an indispensable part of software development, the authors introduce the individual diagram types of UML (the class and object diagram, the sequence diagram, the state machine diagram, the activity diagram, and the use case diagram), as well as their interrelationships, in a step-by-step manner. The topics covered include not only the syntax and the semantics of the individual language elements, but also pragmatic aspects, i.e., how to use them wisely at various stages in the software development process. To this end, the work is complemented with examples that were carefully selected for their educational and illustrative value. Overall, the book provides a solid foundation and deeper understanding of the most important object-oriented modeling concepts and their application in software development. An additional website offers a complete set of slides to aid in teaching the contents of the book, exercises and further e-learning material.

Designing Object Systems Prentice Hall

moderation of the workshops, and the publication process.

Object-oriented Systems Analysis John Wiley & Sons

The revision offers a crisp, clear explanation of the basics of object-oriented thinking via UML models, then presents a process for applying these principles to software development, including C++, Java, and relational databases. An integrated case study threads throughout the book, illustrating key ideas as well as their application.

Object-oriented Analysis and Simulation Elsevier

This book provides an introduction to practical formal modelling techniques in the context of object-oriented system design. It is aimed at both practising software engineers with some prior experience of object-oriented design/programming and at intermediate or advanced students studying object-oriented design or modelling in a short course. The following features make this book particularly attractive to potential instructors: § The relationship with UML and object-oriented programming makes it easy to integrate with the mainstream computing curriculum. Although the book is about formal methods, it does not have to be treated as a specialist topic. § The use of tools and an accessible modelling language improves student motivation. § The industry-based examples and case studies add to the credibility of the approach. § The light touch approach means that the material appeals to students with a wider range of abilities than is the case in a conventional formal methods text. § Support materials as listed above.

Object Oriented Modeling And Design With UML Springer Science & Business Media

The Unified Modeling Language™ (UML®) is inherently object-oriented modeling language and was designed for use in object-oriented software applications. The applications could be based on the object-oriented technologies recommended by the Object Management Group (OMG), which owns the UML. The initial versions of UML (UML 1.x) were based on three leading object-oriented methods - Booch, OMT, and OOSE, to represent "the culmination of best practices in practical object-oriented modeling". UML 2.x is still object-oriented in its core (though there were some apparently unsuccessful attempts to extend UML to support other development methods). This book provides practical guidance on the modeling and design of object-oriented systems. Its specific goals are the following: ■ To provide a sound understanding of the fundamental concepts and historical evolution of the object model. ■ To facilitate a mastery of the notation and process of object-oriented modelling and design. ■ To teach the realistic application of object-oriented modelling and design within a variety of problem domains. The concepts presented all stand on a solid theoretical foundation, but this is primarily a pragmatic book that addresses the practical needs and concerns of software engineering practitioners, from the architect to the software developer.

Validated Designs for Object-oriented Systems Pearson

This book is the first to bring together the techniques of object modelling, advanced software engineering and simulation modelling in a comprehensive guide for students and professionals. By offering an introduction to simulation and state-of-the-art object model concepts, it enables readers to master modelling techniques which meet the challenges inherent in the design and utilization of complex software systems. Following an extensive study of the major object-oriented analysis and design techniques, David Hill shows how a modelling method adapted to simulation can be translated to industrial and research applications. It illustrates how to generate automatic simulation code for the simulation and animation of manufacturing systems, and thus is the only text to provide object-oriented code generation techniques and present the design of a simulation animation builder. Finally, the book includes detailed appendices on simulation languages and an introduction to the C++ programming language.

Object-Oriented Information Engineering Addison Wesley Longman

"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.

A Methodology for Object-oriented Modeling and Design of Real-time, Fault-tolerant Systems John Wiley & Sons Incorporated

Provides an introduction to modern object-oriented design principles and applications for the fast-growing area of modeling and simulation Covers the topic of multi-domain system modeling and design with applications that have components from several areas Serves as a reference for the Modelica language as well as a comprehensive overview of application model libraries for a number of application domains

Principles of Object-Oriented Modeling and Simulation with Modelica 3.3 Pearson Education

Object-oriented Modeling and Design with UML Pearson

Head First Object-Oriented Analysis and Design Morgan Kaufmann

Object-Oriented Analysis and Design for Information Systems clearly explains real object-oriented programming in practice. Expert author Raul Sidnei Wazlawick explains concepts such as object responsibility, visibility and the real need for delegation in detail. The object-oriented code generated by using these concepts in a systematic way is concise, organized and reusable. The patterns and solutions presented in this book are based in research and industrial applications. You will come away with clarity regarding processes and use cases and a clear understand of how to expand a use case. Wazlawick clearly explains clearly how to build meaningful sequence diagrams. Object-Oriented Analysis and Design for Information Systems illustrates how and why building a class model is not just placing classes into a diagram. You will learn the necessary organizational patterns so that your software architecture will be maintainable. Learn how to build better class models, which are more maintainable and understandable. Write use cases in a more efficient and standardized way, using more effective and less complex diagrams. Build true object-oriented code with division of responsibility and delegation.

Object-oriented Modelling with Syntropy O'Reilly Media

Object-Oriented Design with Applications has long been the essential reference to object-oriented technology, which, in turn, has evolved to join the mainstream of industrial-strength software development. In this third edition--the first revision in 13 years--readers can learn to apply object-oriented methods using new paradigms such as Java, the Unified Modeling Language (UML) 2.0, and .NET. The authors draw upon their rich and varied experience to offer improved methods for object development and numerous examples that tackle the complex problems faced by software engineers, including systems architecture, data acquisition, cryptoanalysis, control systems, and Web development. They illustrate essential concepts, explain the method, and show successful applications in a variety of fields. You'll also find pragmatic advice on a host of issues, including classification, implementation strategies, and cost-effective project management. New to this new edition are An introduction to the new UML 2.0, from the notation's most fundamental and advanced elements with an emphasis on key changes New domains and contexts A greatly enhanced focus on modeling--as eagerly requested by readers--with five chapters that each delve into one phase of the overall development lifecycle. Fresh approaches to reasoning about complex systems An examination of the conceptual foundation of the widely misunderstood fundamental elements of the object model, such as abstraction, encapsulation, modularity, and hierarchy How to allocate the resources of a team of developers and manage the risks associated with developing complex software systems An appendix on object-oriented programming languages This is the seminal text for anyone who wishes to use object-oriented technology to manage the complexity inherent in many kinds of systems. Sidebars Preface Acknowledgments About the Authors Section I: Concepts Chapter 1: Complexity Chapter 2: The Object Model Chapter 3: Classes and Objects Chapter 4: Classification Section II: Method Chapter 5: Notation Chapter 6: Process Chapter 7: Pragmatics Chapter 8: System Architecture: Satellite-Based Navigation Chapter 9: Control System: Traffic Management Chapter 10: Artificial Intelligence: Cryptanalysis Chapter 11: Data Acquisition: Weather Monitoring Station Chapter 12: Web Application: Vacation Tracking System Appendix A: Object-Oriented Programming Languages Appendix B: Further Reading Notes Glossary Classified Bibliography Index

Object-Oriented Analysis and Design for Information Systems Springer Science & Business Media

Apply modern C++17 to the implementations of classic design patterns. As well as covering traditional design patterns, this book fleshes out new patterns and approaches that will be useful to C++ developers. The author presents concepts as a fun investigation of how problems can be solved in different ways, along the way using varying degrees of technical sophistication and explaining different sorts of trade-offs. Design Patterns in Modern C++ also provides a technology demo for modern C++, showcasing how some of its latest features (e.g., coroutines) make difficult problems a lot easier to solve. The examples in this book are all suitable for putting into production, with only a few simplifications made in order to aid readability. What You Will Learn Apply design patterns to modern C++ programming Use creational patterns of builder, factories, prototype and singleton Implement structural patterns such as adapter, bridge, decorator, facade and more Work with the behavioral patterns such as chain of responsibility, command, iterator, mediator and more Apply functional design patterns such as Monad and more Who This Book Is For Those with at least some prior programming experience, especially in C++.

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