

# Practical Object Oriented Design Using UML

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*Practical Object-Oriented Development in C++ and Java* - Cay S. Horstmann 1997-04-21  
Practical OO development tips for the C++ and Java programmer Practical Object-Oriented Development in C++ and Java offers advice on real-world ways to use these powerful programming languages and techniques. Using

the Unified Modeling Language (UML) methodology, expert Cay S. Horstmann gives you clear, concise explanations of object-oriented design, C++, and Java in a way that makes these potentially daunting operations more accessible than they've ever been before. Horstmann compares and contrasts features of

C++ and Java to give you a deeper understanding of OO design. He separates the genuinely useful C++, Java, and UML features from the less effective and potentially harmful ones. Horstmann shows you how to determine the best programming practice for whatever application you're in; provides the kind of eye-opening design tips and style rules that can only come from experience; and demystifies advanced topics like frameworks and object persistence. Dozens of illuminating programming examples are readily accessible through the accompanying Web site. Useful code is available for smart pointers, easy output formatting in C++ and Java, a set of classes that makes STL safe to use, and a nifty utility that automatically extracts header files. This unique book: \* Offers over 100 practical design hints for good class design \* Covers the essential OO features of Java 1.1-like serialization and reflection \* Uses the C++ Standard Template Library (STL) throughout \* Covers CRC cards in

addition to UML

**Design Patterns Explained** - Alan Shalloway  
2004-10-12

"One of the great things about the book is the way the authors explain concepts very simply using analogies rather than programming examples—this has been very inspiring for a product I'm working on: an audio-only introduction to OOP and software development." —Bruce Eckel "...I would expect that readers with a basic understanding of object-oriented programming and design would find this book useful, before approaching design patterns completely. Design Patterns Explained complements the existing design patterns texts and may perform a very useful role, fitting between introductory texts such as UML Distilled and the more advanced patterns books." —James Noble Leverage the quality and productivity benefits of patterns—without the complexity! Design Patterns Explained, Second Edition is the field's simplest, clearest, most

practical introduction to patterns. Using dozens of updated Java examples, it shows programmers and architects exactly how to use patterns to design, develop, and deliver software far more effectively. You'll start with a complete overview of the fundamental principles of patterns, and the role of object-oriented analysis and design in contemporary software development. Then, using easy-to-understand sample code, Alan Shalloway and James Trott illuminate dozens of today's most useful patterns: their underlying concepts, advantages, tradeoffs, implementation techniques, and pitfalls to avoid. Many patterns are accompanied by UML diagrams. Building on their best-selling First Edition, Shalloway and Trott have thoroughly updated this book to reflect new software design trends, patterns, and implementation techniques. Reflecting extensive reader feedback, they have deepened and clarified coverage throughout, and reorganized content for even greater ease of understanding. New and revamped coverage in

this edition includes Better ways to start "thinking in patterns" How design patterns can facilitate agile development using eXtreme Programming and other methods How to use commonality and variability analysis to design application architectures The key role of testing into a patterns-driven development process How to use factories to instantiate and manage objects more effectively The Object-Pool Pattern—a new pattern not identified by the "Gang of Four" New study/practice questions at the end of every chapter Gentle yet thorough, this book assumes no patterns experience whatsoever. It's the ideal "first book" on patterns, and a perfect complement to Gamma's classic Design Patterns. If you're a programmer or architect who wants the clearest possible understanding of design patterns—or if you've struggled to make them work for you—read this book.

Practical Object-Oriented Design - Sandi Metz  
2018-07-10

The Complete Guide to Writing Maintainable, Manageable, Pleasing, and Powerful Object-Oriented Applications Object-oriented programming languages exist to help you create beautiful, straightforward applications that are easy to change and simple to extend. Unfortunately, the world is awash with object-oriented (OO) applications that are difficult to understand and expensive to change. Practical Object-Oriented Design, Second Edition, immerses you in an OO mindset and teaches you powerful, real-world, object-oriented design techniques with simple and practical examples. Sandi Metz demonstrates how to build new applications that can “survive success” and repair existing applications that have become impossible to change. Each technique is illustrated with extended examples in the easy-to-understand Ruby programming language, all downloadable from the companion website, [poodr.com](http://poodr.com). Fully updated for Ruby 2.5, this guide shows how to Decide what belongs in a

single class Avoid entangling objects that should be kept separate Define flexible interfaces among objects Reduce programming overhead costs with duck typing Successfully apply inheritance Build objects via composition Whatever your previous object-oriented experience, this concise guide will help you achieve the superior outcomes you’re looking for. Register your book for convenient access to downloads, updates, and/or corrections as they become available. See inside book for details.

Fundamentals of Object-oriented Design in UML - Meilir Page-Jones 2000

Fundamentals of Object-Oriented Design in UML shows aspiring and experienced programmers alike how to apply design concepts, the UML, and the best practices in OO development to improve both their code and their success rates with object-based projects.

**Applied Software Architecture** - Christine Hofmeister 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  
**Object-oriented Technology** - Curtis H. K.

Tsang 2005

This book is written for students and developers who wish to master the essential skills and techniques in applying the UML for software development. The reader will learn object-oriented analysis, design and implementation using appropriate UML models, process, techniques and tool. Accompanying the book is the Community Edition of Visual Paradigm for UML (VP-UML), an award-winning CASE tool, which allows the reader to put the theories learned into practice immediately. The authors propose a novel framework for modeling and analysis called the View Alignment Techniques (VAT) that helps software developers create development methods. The Activity Analysis Approach (A3), which is particularly suited for the development of interaction-intensive systems, is described. These concepts have been well proven, as they were followed closely in the development of the VP-UML CASE tool. Three chapters in this book describe structural, use

case and dynamic modeling and analysis techniques, together with practical tricks and tips that have been gained by the authors from many years of experience. Each of these three chapters includes a mini-case study which illustrates the unique "from diagram to code" concept in software development. In the final chapter, a major case study is included to help the reader reinforce the theories learned in previous chapters using VP-UML. The key areas in object-oriented technology covered in the book include: Requirements modeling using cases: Identifying, capturing and elaborating requirements. Domain analysis for object identification: Building structural models for objects and their attributes and relationships. Dynamic analysis and design: Building dynamic models, refining structural models and making design decisions. Implementation: Translating UML models into codes and implementations. Method creation and the framework of View Alignment

Techniques: Choosing the right UML models and customizing the analysis and design process. A case study: Showing how the Activity Analysis Approach is put into practice, using VP-UML. Additional material can be found at <http://www.mcgraw-hill.com.sg/olc/tsang>. Instructors will benefit from useful tools such as PowerPoint slides (password protected) and answers to exercises (password protected), while students can obtain source code and additional exercises and test questions. Visual Paradigm for UML, the CASE tool used extensively in this book, was honored in the 15th Annual Software Development Magazine Jolt Productivity Award in the Design and Analysis Tools category in March 2004. It has also recently won two more accolades: Oracle JDeveloper Extensions Developer of the Year 2004 and Hong Kong Computer Society 6th IT Excellence Silver Award 2004. The Community Edition of this CASE tool is included in this book to enable the reader to use its powerful and easy-

to-use features for system modeling, analysis and implementation.

*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

*The Art of Objects* - Yun-Tung Lau 2001

The Art of Objects offers an extensive overview of the long-standing principles of object technology, along with leading-edge developments in the field. It will give you a greater understanding of design patterns and the know-how to use them to find effective solutions to a wide range of design challenges. And because the book maintains an approach independent of specific programming languages, the concepts and techniques presented here can

be applied to any object-oriented development environment. Using the Unified Modeling Language (UML), *The Art of Objects* examines numerous static and dynamic practical object design patterns, illustrated by real-life case studies that demonstrate how to put the patterns to work. You will also find discussion of basic concepts of database management and persistent objects, and an introduction to advanced topics in object modeling and interface design patterns. Moving beyond the design level, the book also covers important concepts in object-oriented architecture. Specific topics include: \*Object creation and destruction, associations and links, aggregation, inheritance, and other object design fundamentals \*UML notation basics for static and dynamic  
*Practical Object-oriented Design with UML* - Mark Priestley 2000

This text looks at the design of computing programs using the techniques of object-oriented design and UML. It covers modelling

techniques and notation in detail, supported by exercises throughout. It is suitable for both Java and C++ users.

**Developing Software with UML** - Bernd Oestereich 2002

This book shows us how to use UML and apply it in object-oriented software development. Part 1 of the book guides the reader step-by-step through the development process while part 2 explains the basics of UML in detail.

Object-Oriented Software Engineering: Practical Software Development using UML and Java - Timothy Lethbridge 2002-05-16

This book covers the essential knowledge and skills needed by a student who is specializing in software engineering. Readers will learn principles of object orientation, software development, software modeling, software design, requirements analysis, and testing. The use of the Unified Modelling Language to develop software is taught in depth. Many concepts are illustrated using complete

examples, with code written in Java.

**Building Web Applications with UML** - Jim Conallen 2003

Conallen introduces architects and designers and client/server systems to issues and techniques of developing software for the Web. He expects readers to be familiar with object-oriented principles and concepts, particularly with UML (unified modeling language), and at least one Web application architecture or environment. The second edition incorporates both technical developments and his experience since 1999. He does not provide a bibliography. Annotation copyrighted by Book News, Inc., Portland, OR

*Use Case Modeling* - Kurt Bittner 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

*Object-oriented Modeling and Design with UML* - Michael Blaha 2005

One of the seminal professional tutorial/reference works that helped to set the standard practices for Object-Oriented Design, Modeling and Implementation. Two of the leading authorities in the field, Mike Blaha, and Jim Rumbaugh, have thoroughly revised the book to provide a quintessential reference to UML 2.0 and its application for practical, usable state of the art Object-Oriented strategies in the design and implementation of complex object-oriented software systems.

Practical Object-oriented Development with UML and Java - Richard C. Lee 2002

This practical book tells readers how to actually build object-oriented models using UML notation, and how to implement these models using Java. The authors introduce all of the basic

fundamentals necessary to start applying and understanding the object-oriented paradigm without having to be an expert in computer science or advanced mathematics. It can help the reader to make the right decisions to meet their individual business needs. Using cases, recommended approach scenarios, and examples, this clearly-written book covers a multitude of topics: managing complexity, principles of Object-Orientation, specification models, current techniques, behaviors, relationships, rules, design, Java background and fundamentals, multi-tasking, JAR files, security, Swing Applets, class and interface, internationalization, and implementing generalization and specialization. For professional software analysts and developers who work on large systems, and others in the field of computer science.

**eBook: Object-Oriented Systems Analysis 4e**

- BENNETT 2021-03-26

eBook: Object-Oriented Systems Analysis 4e

[Analysis Patterns](#) - Martin Fowler 1996-10-09

This innovative book recognizes the need within the object-oriented community for a book that goes beyond the tools and techniques of the typical methodology book. In *Analysis Patterns: Reusable Object Models*, Martin Fowler focuses on the end result of object-oriented analysis and design—the models themselves. He shares with you his wealth of object modeling experience and his keen eye for identifying repeating problems and transforming them into reusable models. *Analysis Patterns* provides a catalogue of patterns that have emerged in a wide range of domains including trading, measurement, accounting and organizational relationships. Recognizing that conceptual patterns cannot exist in isolation, the author also presents a series of "support patterns" that discuss how to turn conceptual models into software that in turn fits into an architecture for a large information system. Included in each pattern is the reasoning behind their design, rules for

when they should and should not be used, and tips for implementation. The examples presented in this book comprise a cookbook of useful models and insight into the skill of reuse that will improve analysis, modeling and implementation.

### **Object-oriented Software Engineering -**

Timothy Christian Lethbridge 2004

This book covers the essential knowledge and skills needed by a student who is specializing in software engineering. Readers will learn principles of object orientation, software development, software modeling, software design, requirements analysis, and testing. The use of the Unified Modelling Language to develop software is taught in depth. Many concepts are illustrated using complete examples, with code written in Java.

*UML 2 and the Unified Process* - Jim Arlow  
2005-06-27

"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 **UML in Practice** - Pascal Roques 2006-02-08 Offers comprehensive coverage of all major modeling viewpoints Provides details of collaboration and class diagrams for filling in the design-level models

**Testing Object-oriented Systems** - Robert Binder 2000

More than ever, mission-critical and business-critical applications depend on object-oriented (OO) software. Testing techniques tailored to the unique challenges of OO technology are necessary to achieve high reliability and quality. "Testing Object-Oriented Systems: Models, Patterns, and Tools" is an authoritative guide to designing and automating test suites for OO applications. This comprehensive book explains why testing must be model-based and provides in-depth coverage of techniques to develop testable models from state machines, combinational logic, and the Unified Modeling

Language (UML). It introduces the test design pattern and presents 37 patterns that explain how to design responsibility-based test suites, how to tailor integration and regression testing for OO code, how to test reusable components and frameworks, and how to develop highly effective test suites from use cases. Effective testing must be automated and must leverage object technology. The author describes how to design and code specification-based assertions to offset testability losses due to inheritance and polymorphism. Fifteen micro-patterns present oracle strategies--practical solutions for one of the hardest problems in test design. Seventeen design patterns explain how to automate your test suites with a coherent OO test harness framework. The author provides thorough coverage of testing issues such as: The bug hazards of OO programming and differences from testing procedural code How to design responsibility-based tests for classes, clusters, and subsystems using class invariants, interface

data flow models, hierarchic state machines, class associations, and scenario analysis How to support reuse by effective testing of abstract classes, generic classes, components, and frameworks How to choose an integration strategy that supports iterative and incremental development How to achieve comprehensive system testing with testable use cases How to choose a regression test approach How to develop expected test results and evaluate the post-test state of an object How to automate testing with assertions, OO test drivers, stubs, and test frameworks Real-world experience, world-class best practices, and the latest research in object-oriented testing are included. Practical examples illustrate test design and test automation for Ada 95, C++, Eiffel, Java, Objective-C, and Smalltalk. The UML is used throughout, but the test design patterns apply to systems developed with any OO language or methodology. 0201809389B04062001  
UML and C++ - Richard C. Lee 2001

This practical book by two industry leaders continues to be a self-teaching guide for software analysts and developers. This revised edition teaches readers how to actually "do" object-oriented modeling using UML notation as well as how to implement the model using C++. The authors introduce all of the basic object-oriented fundamentals necessary so readers can understand and apply the object-oriented paradigm. FEATURES Teaches readers to build an object-oriented application using C++ and make the right trade-off decisions to meet business needs. Exposes a number of the myths surround object-oriented technology while focusing on its practicality as a software engineering tool. Gives readers a "recipe or step-by-step guide to do all of the steps of object-oriented technology. Provides a practical approach to analysis, design, and programming in the object-oriented technology. NEW TO THE SECOND EDITION Gives a practical approach for the development of use cases as part of

object-oriented analysis. Provides greater coverage of UML diagramming. Introduces key C++ libraries that provide important functionality, supporting implementation of an object-oriented model in C++. Improved coverage of dynamic behavior modeling, implementation of the state model, and class projects.

*The Rational Unified Process Made Easy* - Per Kroll 2003

The authors explain the underlying software development principles behind theRUP, and guide readers in its application in their organization.

Practical Object Oriented Design - Bhuvan Unhelkar 2005

Practical Object Oriented Design deals with the designing of software systems in the 'solution space' using the Unified Modelling Language (UML 2.0). This book builds on the analysis models created in its precursor, Practical Object Oriented Analysis, and iteratively creates

architectural and solution models.

Visual Modeling with Rational Rose 2002 and UML - Terry Quatrani 2003

Thoroughly updated and fully compliant with Rational Rose 2002, the latest release of the industry's most popular software modeling tool, this edition contains simplified, useful case studies and helps the reader understand the core concepts of modeling and how to use UML effectively.

*Object-Oriented Analysis and Design for Information Systems* - Raul Sidnei Wazlawick  
2014-01-28

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.

EBOOK: PRACTICAL OBJECT-ORIENT -  
PRIESTLEY 2003-12-16

EBOOK: PRACTICAL OBJECT-ORIENT  
**Real-time Design Patterns** - Bruce Powell

Douglass 2003

This revised and enlarged edition of a classic in Old Testament scholarship reflects the most up-to-date research on the prophetic books and offers substantially expanded discussions of important new insight on Isaiah and the other prophets.

**Practical Object-oriented Design in Ruby** - Sandi Metz 2013

The Complete Guide to Writing More Maintainable, Manageable, Pleasing, and Powerful Ruby Applications Ruby's widely admired ease of use has a downside: Too many Ruby and Rails applications have been created without concern for their long-term maintenance or evolution. The Web is awash in Ruby code that is now virtually impossible to change or extend. This text helps you solve that problem by using powerful real-world object-oriented design techniques, which it thoroughly explains using simple and practical Ruby examples. This book focuses squarely on object-oriented Ruby

application design. Practical Object-Oriented Design in Ruby will guide you to superior outcomes, whatever your previous Ruby experience. Novice Ruby programmers will find specific rules to live by; intermediate Ruby programmers will find valuable principles they can flexibly interpret and apply; and advanced Ruby programmers will find a common language they can use to lead development and guide their colleagues. This guide will help you Understand how object-oriented programming can help you craft Ruby code that is easier to maintain and upgrade Decide what belongs in a single Ruby class Avoid entangling objects that should be kept separate Define flexible interfaces among objects Reduce programming overhead costs with duck typing Successfully apply inheritance Build objects via composition Design cost-effective tests Solve common problems associated with poorly designed Ruby code

Executable UML - Stephen J. Mellor 2002

Overviews the process of building and compiling executable UML models for software development. The book focuses on the BridgePoint tool suite and object action language developed by Project Technology. The authors discuss identifying system requirements, diagramming classes and attributes, constraints on the class diagram, ways of building sets of communicating statechart diagrams, and model verification. Annotation copyrighted by Book News, Inc., Portland, OR.

**Object Oriented Analysis and Design Using UML** - D. Jeya Mala 2013

"Building on their classroom teaching experiences over the years, Dr Jeya Mala and Dr Geetha have deployed an innovative approach and student-friendly style to explain Object Oriented Analysis and Design concepts, thereby ensuring that the interest of the readers is maintained. The textbook covers case studies, activity models, and diagrams using the latest version of UML 2. The book contains adequate

span to cover the curriculum requisites and rich pedagogical features to cater to the needs of undergraduate students."--Back cover

**APPLYING UML & PATTERNS 3RD EDITION**

- Craig Larman 2015

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 Object Constraint Language** - Jos B. Warmer 2003

bull; Learn to better leverage the significant power of UML 2.0 and the Model-Driven Architecture standard bull; The OCL helps developers produce better software by adding vital definition to their designs bull; Updated to reflect the latest version of the standard - OCL 2.0

**Doing Hard Time** - Bruce Powel Douglass 1999

Doing Hard Time is written to facilitate the daunting process of developing real-time

systems. It presents an embedded systems programming methodology that has been proven successful in practice. The process outlined in this book allows application developers to apply practical techniques - garnered from the mainstream areas of object-oriented software development - to meet the demanding qualifications of real-time programming. Bruce Douglass offers ideas that are up-to-date with the latest concepts and trends in programming. By using the industry standard Unified Modeling Language (UML), as well as the best practices from object technology, he guides you through the intricacies and specifics of real-time systems development. Important topics such as schedulability, behavioral patterns, and real-time frameworks are demystified, empowering you to become a more effective real-time programmer.

### **UML and Object-Oriented Design**

**Foundations** - Karoly Nyisztor 2018-04-27

Explore the fundamental concepts behind

modern, object-oriented software design best practices. Learn how to work with UML to approach software development more efficiently. In this comprehensive book, instructor Károly Nyisztor helps to familiarize you with the fundamentals of object-oriented design and analysis. He introduces each concept using simple terms, avoiding confusing jargon. He focuses on the practical application, using hands-on examples you can use for reference and practice. Throughout the book, Károly walks you through several examples to familiarize yourself with software design and UML. Plus, he walks you through a case study to review all the steps of designing a real software system from start to finish. Topics include:- Understanding software development methodologies- Choosing the right methodology: Waterfall vs. Agile- Fundamental object-Orientation concepts: Abstraction, Polymorphism and more- Collecting requirements- Mapping requirements to technical descriptions- Unified Modeling

Language (UML)- Use case, class, sequence, activity, and state diagrams- Designing a Note-Taking App from scratch You will acquire professional and technical skills together with an understanding of object-orientation principles and concepts. After completing this book, you'll be able to understand the inner workings of object-oriented software systems. You will communicate easily and effectively with other developers using object-orientation terms and UML diagrams. About the Author Károly Nyisztor is a veteran mobile developer and instructor. He has built several successful iOS apps and games--most of which were featured by Apple--and is the founder at LEAKKA, a software development, and tech consulting company. He's worked with companies such as Apple, Siemens, SAP, and Zen Studios. Currently, he spends most of his days as a professional software engineer and IT architect. In addition, he teaches object-oriented software design, iOS, Swift, Objective-C, and UML. As an instructor, he aims to share his 20+

years of software development expertise and change the lives of students throughout the world. He's passionate about helping people reveal hidden talents, and guide them into the world of startups and programming. You can find his courses and books on all major platforms including Amazon, Lynda, LinkedIn Learning, Pluralsight, Udemy, and iTunes.

**UML Distilled** - Martin Fowler 2004

A guide to using UML describes major UML diagrams, their creation, and how to decipher them.

Use Case Driven Object Modeling with UML Theory and Practice - Don Rosenberg  
2008-06-28

Diagramming and process are important topics in today's software development world, as the UML diagramming language has come to be almost universally accepted. Yet process is necessary; by themselves, diagrams are of little use. Use Case Driven Object Modeling with UML - Theory and Practice combines the notation of

UML with a lightweight but effective process - the ICONIX process - for designing and developing software systems. ICONIX has developed a growing following over the years. Sitting between the free-for-all of Extreme Programming and overly rigid processes such as RUP, ICONIX offers just enough structure to be successful.

**Visual Modeling with Rational Rose 2000 and UML** - Terry Quatrani 2000

The first UML book to cover Rational Rose 2000, this brand-new edition reviews the three key interrelated components of state-of-the-art software system design: the Rational Unified process, the Unified Modeling Language, and Rational Rose 2000. Then, through a simplified case study, it walks developers through a real-world business system. Includes screen shots demonstrating UML at work in the Rational Rose 2000 modeling tool.

**Object-Oriented Design with UML and Java** - Kenneth Barclay 2003-12-17

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

MDA Explained - Anneke G. Kleppe 2003  
"Highlights of this book include: the MDA

framework, including the Platform Independent Model (PIM) and Platform Special Model (PSM); OMG standards and the use of UML; MDA and Agile, Extreme Programming, and Rational Unified Process (RUP) development; how to apply MDA, including PIM-to-PSM and PSM-to-code transformations for Relational, Enterprise JavaBean (EJB), and Web models; transformations, including controlling and tuning, traceability, incremental consistency, and their implications; metamodeling; and relationships between different standards, including Meta Object Facility (MOF), UML, and Object Constraint Language (OCL)."--Jacket.