

Objects First With Java A Practical Introduction Using Bluej 5th Edition By Barnes David J Kling Michael 2011 Paperback

Introduction to Programming with Greenfoot: Object-Oriented Programming in Java with games and Simulations is ideal for introductory courses in Java Programming or Introduction to Computer Science. The only textbook to teach Java programming using Greenfoot—this is “Serious Fun.” Programming doesn't have to be dry and boring. This book teaches Java programming in an interactive and engaging way that is technically relevant, pedagogically sound, and highly motivational for students. Using the Greenfoot environment, and an extensive collection of compelling example projects, students are given a unique, graphical framework in which to learn programming.

A tutorial introducing Java basics covers programming principles, integrating applets with Web applications, and using threads, arrays, and sockets.

Introduces Java Data Objects and its capabilities, explains how to make classes persistent, how to configure JDO, how to make queries, how to perform transactions, and its use in Web applications and J2EE environments.

A Modern Approach to Functional Programming Objects First with Java: A Practical Introduction is an introduction to object-oriented programming for beginners. The main focus of the book is general object-oriented and programming concepts from a software engineering perspective. The first chapters are written for readers with no programming experience with later chapters being more suitable for advanced or professional programmers. The Java programming language and BlueJ--the Java development environment -- are the two tools used throughout the book. BlueJ's clear visualization of classes and objects means that readers can immediately appreciate the differences between them and gain a much better understanding of the nature of an object than they would from simply reading source code. Unlike traditional textbooks, the chapters are not ordered by language features but by software development concepts. The Sixth Edition goes beyond just adding the new language constructs of Java 8. The book's exploration of this new language demonstrates a renaissance of functional ideas in modern programming. While functional programming isn't new in principle, it's seen a boost in popularity based on the current computer hardware available and the changing nature of projects programmers wish to tackle. Functional language constructs make it possible to efficiently automate currency, make use of multiple cores without much effort on the side of the programmer, are both more elegant and readable, and offer great potential in solving the issue of parallel hardware. Functional programming has become an essential part of the field, and Objects First with Java gives students a basic understanding of an area they'll need to master in order to succeed in the future.

Export author Barker covers information key for proficiency with an OO programming language like Java, and shows how to really create reusable code and extensible applications.

Take a step beyond syntax to discover the true art of software design, with Java as your paintbrush and objects on your palette. This in-depth discussion of how, when, and why to use objects enables you to create programs that not only work smoothly, but are easy to maintain and upgrade using Java or any other object-oriented language! Companion CD software Pc.zip (8.4MB) Unix.zip (541K)

An overview of the programming language's fundamentals covers syntax, initialization, implementation, classes, error handling, objects, applets, multiple threads, projects, and network programming.

This Multi Pack comprises of the following components; Barnes/ Objects First with Java: A Practical Introduction using BlueJ 0130449296 Maciaszek/ Requirements Analysis and System Design: Developing Information Systems with UML 0201709449

Your essential comparative approach to learning C++ and Java Programming with Objects: A Comparative Presentation of Object-Oriented Programming with C++ and Java, a comparative presentation of object-oriented programming with two of the most popular programming languages of today, teaches vital skills and techniques for the Internet age. Based on highly successful courses taught by the author, this book answers the need for a comprehensive educational program on the subject of object-oriented programming. In a clear and accessible format, the author compares and contrasts both languages, from basic language constructs to how both languages are used in application-level programming, such as graphics programming, network programming, and database programming. Since both C++ and Java were born out of the same language, C, learning these two languages together has several distinct advantages: * Because they have much in common at the level of basic language structures, learning C++ and Java together saves time and facilitates the mastery of each * Learning by contrast and comparison can be more efficient and enjoyable, allowing readers access to the strengths and weaknesses of both languages * Learning to write a program in one language that corresponds to a given program in the other language enables students to tackle more difficult projects in either language * Comparing similar concepts in the two languages leads to a deeper understanding of the concepts in both Roughly the first half of the text is devoted to basic language issues. More advanced topics are detailed in the second half, including programming of graphical user interfaces, multithreading, network programming, and database programming. Designed as a text for educational programs in advanced programming and as a reference for professionals implementing Web- and Internet-based applications, Programming with Objects: A Comparative Presentation of Object-Oriented Programming with C++ and Java is also recommended for programmers familiar with either language who wish to expand their programming skills.

Objects First with Java A Practical Introduction Using BlueJ, Global Edition

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You will continue to access your digital ebook products whilst you have your Bookshelf installed. A Modern Approach to Functional Programming Objects First with Java: A Practical Introduction is an introduction to object-oriented programming for beginners. The main focus of the book is general object-oriented and programming concepts from a software engineering perspective. The first chapters are written for students with no programming experience with later chapters being more suitable for advanced or professional programmers. The Java programming language and BlueJ—the Java development environment – are the two tools used throughout the book. BlueJ's clear visualization of classes and objects means that students can immediately appreciate the differences between them and gain a much better understanding of the nature of an object than they

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Written to appeal to both novice and veteran programmers, this complete and well-organized guide to the versatile and popular object-oriented programming language Java shows how to use it as a primary tool in many different aspects of one's programming work. It emphasizes the importance of good programming style—particularly the need to maintain an object's integrity from outside interference—and helps users harness the power of Java in object-oriented programming to create their own interesting and practical every-day applications. Discusses the basics of computer systems, and describes the fundamental elements of the Java language, with complete instructions on how to compile and run a simple program. Introduces fundamental object-oriented concepts, and shows how simple classes may be defined from scratch. Explores Java's exception-handling mechanism, and investigates Java's interface facility (i.e., polymorphism). Covers all Java applications, including use of the Abstract Windowing Toolkit, graphical programming, networking, and simulation. Includes numerous exercises, periodic reviews, case studies, and supporting visuals. For those in the computer science industry.

The author takes an objects early approach to teaching Java, with the assumption that teaching beginners the big picture early gives them more time to master the principles of object-oriented programming. The text focuses on the motivation behind Java's strengths and the benefits of the object-oriented paradigm. It provides a solid understanding of objects and methods, concentrating on problem decomposition and program design. A firm grasp on these fundamentals allows the smaller details, and some of Java's advanced features, to fall into place from both instructor and student perspectives.

Brief Java: Early Objects, 9th Edition focuses on the essentials of effective learning and is suitable for a two-semester introduction to programming sequence. This text requires no prior programming experience and only a modest amount of high school algebra. Objects and classes from the standard library are used where appropriate in early sections with coverage on object-oriented design starting in Chapter 8. This gradual approach allows students to use objects throughout their study of the core algorithmic topics, without teaching bad habits that must be un-learned later. Choosing the enhanced eText format allows students to develop their coding skills using targeted, progressive interactivities designed to integrate with the eText. All sections include built-in activities, open-ended review exercises, programming exercises, and projects to help students practice programming and build confidence. These activities go far beyond simplistic multiple-choice questions and animations. They have been designed to guide students along a learning path for mastering the complexities of programming. Students demonstrate comprehension of programming structures, then practice programming with simple steps in scaffolded settings, and finally write complete, automatically graded programs. The perpetual access VitalSource Enhanced eText, when integrated with your school's learning management system, provides the capability to monitor student progress in VitalSource SCORECenter and track grades for homework or participation. Enhanced eText and interactive functionality available through select vendors and may require LMS integration approval for SCORECenter.

/* 0-13-044929-6, 4492J-5, Barnes, Kolling, OBJECTS FIRST WITH JAVA */ BlueJ is a Java development environment that runs on top of the Sun Microsystems Java Development Kit making use of the standard compiler and virtual machine. It allows readers to create objects of any class and interact with their methods. For the first time, the traditionally difficult concepts of objects and classes are brought alive in an easily manipulable visual form. This truly "objects first" approach within the customized BlueJ environment will revolutionize the way programming is learned. The book includes a copy of BlueJ. Takes a project driven approach to problem solving—the book is structured along the lines of fundamental development tasks—providing readers with clear coverage of the principles of object-oriented programming. Programmers and non-programmers who want to learn Java with a state of the art approach and user-friendly programming environment.

For many researchers, Python is a first-class tool mainly because of its libraries for storing, manipulating, and gaining insight from data. Several resources exist for individual pieces of this data science stack, but only with the Python Data Science Handbook do you get them all—IPython, NumPy, Pandas, Matplotlib, Scikit-Learn, and other related tools. Working scientists and data crunchers familiar with reading and writing Python code will find this comprehensive desk reference ideal for tackling day-to-day issues: manipulating, transforming, and cleaning data; visualizing different types of data; and using data to build statistical or machine learning models. Quite simply, this is the must-have reference for scientific computing in Python. With this handbook, you'll learn how to use: IPython and Jupyter: provide computational environments for data scientists using Python NumPy: includes the ndarray for efficient storage and manipulation of dense data arrays in Python Pandas: features the DataFrame for efficient storage and manipulation of labeled/columnar data in Python Matplotlib: includes capabilities for a flexible range of data visualizations in Python Scikit-Learn: for efficient and clean Python implementations of the most important and established machine learning algorithms

This text is intended for use in the Java programming course Tony Gaddis's accessible, step-by-step presentation helps beginning students understand the important details necessary to become skilled programmers at an introductory level. Gaddis motivates the study of both programming skills and the Java programming language by presenting all the details needed to

understand the “how” and the “why”—but never losing sight of the fact that most beginners struggle with this material. His approach is both gradual and highly accessible, ensuring that students understand the logic behind developing high-quality programs. In *Starting Out with Java: Early Objects*, Gaddis looks at objects—the fundamentals of classes and methods—before covering procedural programming. As with all Gaddis texts, clear and easy-to-read code listings, concise and practical real-world examples, and an abundance of exercises appear in every chapter. Teaching and Learning Experience This program presents a better teaching and learning experience—for you and your students. Enhance Learning with the Gaddis Approach: Gaddis’s accessible approach features clear and easy-to-read code listings, concise real-world examples, and exercises in every chapter. Keep Your Course Current: Content is refreshed to provide the most up-to-date information on new technologies for your course. Support Instructors and Students: Student and instructor resources are available to expand on the topics presented in the text.

A systematic approach to striving for perfection in Java "TM" enterprise software! -- Principles and best-practice patterns for the key design and implementation problems facing enterprise developers. -- Effective integration of UML, object-oriented development, Java "TM," and your software development processes. -- Identifies behavioral and structural modeling techniques that deliver exceptional value. Drawing upon the experiences of hundreds of developers he has trained or worked with, Kirk Knoernschild offers a systematic guide to solving today's complex problems of Java-based enterprise application design and implementation. Knoernschild focuses on both technology and process, offering a phased approach to integrating UML, object-oriented development, and Java "TM" throughout the entire development lifecycle. Knoernschild begins by reintroducing objects and object-oriented design, presenting key concepts such as polymorphism and inheritance in terms of several powerful principles and patterns that inform the entire book. Next, he introduces the UML: how it evolved, the problems it helps to solve, and how various UML constructs can be mapped to Java. Knoernschild shows how to structure UML diagrams to more easily identify the problem being solved, introduces best practices that any software development process should promote, and shows how the UML fits with these best practices. He reviews the external considerations that impact how companies really use the UML, Java "TM," and object-based techniques, presenting a pragmatic, phased approach to integrating them with the least pain and the greatest effectiveness. The book concludes with in-depth coverage of behavioral and structural modeling, again emphasizing the principles and patterns associated with long-term success. For every Java "TM" enterprise developer, architect, analyst, and project manager.

An Introduction to Object-Oriented Programming with Java provides an accessible and technically thorough introduction to the basics of programming using java. The text takes a truly object-oriented approach. Objects are used early so that students think in objects right from the beginning.

Provides information on analyzing, designing, and writing object-oriented software.

Learning a complex new language is no easy task especially when it s an object-oriented computer programming language like Java. You might think the problem is your brain. It seems to have a mind of its own, a mind that doesn't always want to take in the dry, technical stuff you're forced to study. The fact is your brain craves novelty. It's constantly searching, scanning, waiting for something unusual to happen. After all, that's the way it was built to help you stay alive. It takes all the routine, ordinary, dull stuff and filters it to the background so it won't interfere with your brain's real work--recording things that matter. How does your brain know what matters? It's like the creators of the Head First approach say, suppose you're out for a hike and a tiger jumps in front of you, what happens in your brain? Neurons fire. Emotions crank up. Chemicals surge. That's how your brain knows. And that's how your brain will learn Java. Head First Java combines puzzles, strong visuals, mysteries, and soul-searching interviews with famous Java objects to engage you in many different ways. It's fast, it's fun, and it's effective. And, despite its playful appearance, Head First Java is serious stuff: a complete introduction to object-oriented programming and Java. You'll learn everything from the fundamentals to advanced topics, including threads, network sockets, and distributed programming with RMI. And the new. second edition focuses on Java 5.0, the latest version of the Java language and development platform. Because Java 5.0 is a major update to the platform, with deep, code-level changes, even more careful study and implementation is required. So learning the Head First way is more important than ever. If you've read a Head First book, you know what to expect--a visually rich format designed for the way your brain works. If you haven't, you're in for a treat. You'll see why people say it's unlike any other Java book you've ever read. By exploiting how your brain works, Head First Java compresses the time it takes to learn and retain--complex information. Its unique approach not only shows you what you need to know about Java syntax, it teaches you to think like a Java programmer. If you want to be bored, buy some other book. But if you want to understand Java, this book's for you.

This book has a strong focus on object-oriented design and gives readers a realistic experience of writing programs that are systems of cooperating objects. Programming fundamentals are learned through visually appealing graphics applications in all examples and exercises. Introduction of object-oriented concepts from the beginning including objects, classes, polymorphism, inheritance, and interfaces. It fully embraces Java 5.0 topics including the standard scanner class and makes extensive use of graphical user-interfaces and real graphics applications. This book is appropriate for beginning programmers who want to learn to program with Java as well as experienced programmers who want to add Java to their skill-set.

Learn Java with examples in BlueJ, gets you started programming in Java right away. Learning a complex new language is not an easy task especially when it's an object-oriented programming language like Java. This practical beginner's guide enables you to: Gain a solid understanding of Java. Understand difference between Procedure Oriented Programming (POP) and Object Oriented Programming (OOP). Teach you fundamental concepts of Object Oriented Programming, Objects and Classes. Each program shown with its associated output.

Explanation of difficult lines of code. All programs compiled and executed in the BlueJ Development Environment. Extensive examples provided in each chapter. Empower you to develop logical and analytical thinking using object-oriented approach in Java. A hands-on and exercise-rich book in Java programming for beginners. Start brewing up great programs with Java! Knowledge of other programming languages is not required. Book designed to teach Java in readable style with small and direct programs making even arcane concepts clear.

The BlueJ development environment was specifically designed to support introductory teaching of object-orientations and helps users grasp the complicated concepts of class structure. Unlike most books on the subject, this text uses BlueJ to get readers started on object-oriented programming from day one. Uses a spiral approach that introduces a topic in a simple context early

on, then revisits it later to increase understanding; Offers an abundance of projects for hands-on practice; Chapters are ordered around software development concepts rather than language features; Language-feature introduction is naturally driven by problems to be solved; Chapters are based around distinct projects for more variety; Does not cover traditional topics like control structures. A useful reference for programmers.

Currently used at many colleges, universities, and high schools, this hands-on introduction to computer science is ideal for people with little or no programming experience. The goal of this concise book is not just to teach you Java, but to help you think like a computer scientist. You'll learn how to program—a useful skill by itself—but you'll also discover how to use programming as a means to an end. Authors Allen Downey and Chris Mayfield start with the most basic concepts and gradually move into topics that are more complex, such as recursion and object-oriented programming. Each brief chapter covers the material for one week of a college course and includes exercises to help you practice what you've learned. Learn one concept at a time: tackle complex topics in a series of small steps with examples Understand how to formulate problems, think creatively about solutions, and write programs clearly and accurately Determine which development techniques work best for you, and practice the important skill of debugging Learn relationships among input and output, decisions and loops, classes and methods, strings and arrays Work on exercises involving word games, graphics, puzzles, and playing cards The design and analysis of efficient data structures has long been recognized as a key component of the Computer Science curriculum. Goodrich, Tomassia and Goldwasser's approach to this classic topic is based on the object-oriented paradigm as the framework of choice for the design of data structures. For each ADT presented in the text, the authors provide an associated Java interface. Concrete data structures realizing the ADTs are provided as Java classes implementing the interfaces. The Java code implementing fundamental data structures in this book is organized in a single Java package, `net.datastructures`. This package forms a coherent library of data structures and algorithms in Java specifically designed for educational purposes in a way that is complimentary with the Java Collections Framework.

Java How to Program (Late Objects), Tenth Edition is intended for use in the Java programming course. It also serves as a useful reference and self-study tutorial to Java programming. The Deitels' groundbreaking How to Program series offers unparalleled breadth and depth of object-oriented programming concepts and intermediate-level topics for further study. Java How to Program (Late Objects), Tenth Edition, teaches programming by presenting the concepts in the context of full working programs. The Late Objects Version delays coverage of class development, first presenting control structures, methods and arrays material in a non-object-oriented, procedural programming context. Teaching and Learning Experience This program presents a better teaching and learning experience--for you and your students. Teach Programming with the Deitels' Signature Live Code Approach: Java language features are introduced with thousands of lines of code in hundreds of complete working programs. Use a Late Objects Approach: The Late Objects Version begins with a rich treatment of procedural programming, including two full chapters on control statements and 200+ exercises. Keep Your Course Current: This edition can be used with Java SE 7 or Java SE 8, and is up-to-date with the latest technologies and advancements. Facilitate Learning with Outstanding Applied Pedagogy: Making a Difference exercise sets, projects, and hundreds of valuable programming tips help students apply concepts. Support Instructors and Students: Student and instructor resources are available to expand on the topics presented in the text.

A Modern Approach to Functional Programming Objects First with Java: A Practical Introduction is an introduction to object-oriented programming for beginners. The main focus of the book is general object-oriented and programming concepts from a software engineering perspective. The first chapters are written for students with no programming experience with later chapters being more suitable for advanced or professional programmers. The Java programming language and BlueJ-the Java development environment - are the two tools used throughout the book. BlueJ's clear visualisation of classes and objects means that students can immediately appreciate the differences between them and gain a much better understanding of the nature of an object than they would from simply reading source code. Unlike traditional textbooks, the chapters are not ordered by language features but by software development concepts. The Sixth Edition goes beyond just adding the new language constructs of Java 8. The book's exploration of this new language demonstrates a renaissance of functional ideas in modern programming. While functional programming isn't new in principle, it's seen a boost in popularity based on the current computer hardware available and the changing nature of projects programmers wish to tackle. Functional language constructs make it possible to efficiently automate currency, make use of multiple cores without much effort on the side of the programmer, are both more elegant and readable, and offer great potential in solving the issue of parallel hardware. Functional programming has become an essential part of the field, and Objects First with Java gives students a basic understanding of an area they'll need to master in order to succeed in the future.

An Introduction to Object-Oriented Programming with Java provides an accessible and thorough introduction to the basics of programming in java. This much-anticipated revision continues its emphasis on object-oriented programming. Objects are used early so students begin thinking in an object-oriented way, then later Wu teaches students to define their own classes. In the third edition, the author has eliminated the author-written classes, so students get accustomed to using the standard java libraries. In the new update, the author has included the Scanner Class for input, a new feature of Java 1.5. Also new is the use of smaller complete code examples to enhance student learning. The larger sample development programs are continued in this edition, giving students an opportunity to walk incrementally walk through program design, learning the fundamentals of software engineering. The number and variety of examples makes this a student-friendly text that teaches by showing. Object diagrams continue to be an important element of Wu's approach. The consistent, visual approach assists students in understanding concepts.

Helps readers eliminate performance problems, covering topics including bottlenecks, profiling tools, strings, algorithms, distributed systems, and servlets.

CD-ROM contains: Source code -- Java Development Kit (jdk) -- BlueJ 1.1.4 for Windows and Macintosh OSX.

NOTE: You are purchasing a standalone product; MyProgrammingLab® does not come packaged with this content. If you would like to purchase both the physical text and MyProgrammingLab search for 0134059875 / 9780134059877 Starting Out with Java: From Control Structures through Objects plus MyProgrammingLab with Pearson eText -- Access Card Package, 6/e Package consists of: 0133957055 / 9780133957051 Starting Out with Java: From Control Structures through Objects, 6/e 0133885569 / 9780133885569 0133957608 / 9780133957600 MyProgrammingLab with Pearson eText -- Access Card -- for Starting Out with Java: From Control Structures through Objects, 6/e MyProgrammingLab should only be purchased when required by an instructor. For courses in computer programming in Java Starting Out with Java: From Control Structures through Objects provides a brief yet detailed introduction to programming in the Java language. Starting out with the fundamentals of data types and other basic elements, readers quickly progress to more advanced programming topics and skills. By moving from control structures to objects, readers gain a comprehensive understanding of the Java language and its applications. As with all Gaddis texts, the Sixth Edition is clear, easy to read, and friendly in tone. The text teaches by example throughout, giving readers a chance to apply their learnings by beginning to code with Java. Also available with MyProgrammingLab MyProgrammingLab is an online homework, tutorial, and assessment program designed to work with this text to engage students and improve results. Within its structured environment, students practice what they learn, test their understanding, and pursue a personalized study plan that helps them better absorb course material and understand difficult concepts. MyProgrammingLab allows you to engage your students in the course material before, during, and after class with a variety of activities and assessments.

A comprehensive Java guide, with samples, exercises, casestudies, and step-by-step instruction Beginning Java Programming: The Object Oriented Approach is a straightforward resource for getting started with one of the world's most enduringly popular programming languages. Based on classes taught by the authors, the book starts with the basics and gradually builds into more advanced concepts. The approach utilizes an integrated development environment that allows readers to immediately apply what they learn, and includes step-by-step instruction with plenty of sample programs. Each chapter contains exercises based on real-world business and educational scenarios, and the final chapter uses case studies to combine several concepts and put readers' new skills to the test. Beginning Java Programming: The Object Oriented Approach provides both the information and the tools beginners need to develop Java skills, from the general concepts of object-oriented programming. Learn to: Understand the Java language and object-oriented concept implementation Use Java to access and manipulate external data Make applications accessible to users with GUIs Streamline workflow with object-oriented patterns The book is geared for those who want to use Java in an applied environment while learning at the same time. Useful as either a course text or a stand-alone self-study program, Beginning Java Programming is a thorough, comprehensive guide.

Object-Oriented Programming and Java presents two important topics in contemporary software development: object-oriented programming and Java. This book takes a different teaching approach from most available literature, it begins with the description of real-world object interaction scenarios and explains how they can be translated, represented and executed using object-oriented programming paradigm. Principally, Java is an object-oriented programming language. By establishing a solid foundation in the understanding of object-oriented programming concepts and their applications, the book provides readers with the pre-requisites for writing proper object-oriented programs using Java. Object-Oriented Programming and Java covers the latest in Java technologies and is suitable for undergraduate or postgraduate courses on object-oriented technology, particularly those using Java as a programming language for creating object-oriented programs. The book will also give individual professional developers a head-start in learning the language.

Big Java: Early Objects, 7th Edition focuses on the essentials of effective learning and is suitable for a two-semester introduction to programming sequence. This text requires no prior programming experience and only a modest amount of high school algebra. Objects and classes from the standard library are used where appropriate in early sections with coverage on object-oriented design starting in Chapter 8. This gradual approach allows students to use objects throughout their study of the core algorithmic topics, without teaching bad habits that must be unlearned later. The second half covers algorithms and data structures at a level suitable for beginning students. Choosing the enhanced eText format allows students to develop their coding skills using targeted, progressive interactivities designed to integrate with the eText. All sections include built-in activities, open-ended review exercises, programming exercises, and projects to help students practice programming and build confidence. These activities go far beyond simplistic multiple-choice questions and animations. They have been designed to guide students along a learning path for mastering the complexities of programming. Students demonstrate comprehension of programming structures, then practice programming with simple steps in scaffolded settings, and finally write complete, automatically graded programs. The perpetual access VitalSource Enhanced eText, when integrated with your school's learning management system, provides the capability to monitor student progress in VitalSource SCORECenter and track grades for homework or participation. *Enhanced eText and interactive functionality available through select vendors and may require LMS integration approval for SCORECenter.

This introductory programming textbook integrates BlueJ with Java. It provides a thorough treatment of object-oriented principles.

"Java, Java, Java, Third Edition systematically introduces the Java 1.5 language to the context of practical problem-solving and effective object-oriented design. Carefully and incrementally, the authors demonstrate how to decompose problems, use UML diagrams to design Java software that solves those problems, and transform their designs into efficient, robust code. Their "objects-early" approach reflects the latest pedagogical insights into teaching Java, and their examples help readers apply sophisticated techniques rapidly and effectively."--BOOK JACKET.

A catalog of solutions to commonly occurring design problems, presenting 23 patterns that allow designers to create flexible and reusable designs for object-oriented software. Describes the circumstances in which each pattern is applicable, and discusses the consequences and trade-offs of using the pattern within a larger design. Patterns are compiled from real systems, and include code for implementation in object-oriented programming languages like C++ and Smalltalk. Includes a bibliography. Annotation copyright by Book News, Inc., Portland, OR

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