

Core Java 2 Volume 2 Advanced Features

Modern computing systems work when all components are correct by design and can be combined to achieve scalability. This publication offers refereed papers covering various aspects such as: system design and implementation; tools (concurrent programming languages, libraries, and run-time kernels); and, formal methods and applications.

A sétima edição de 'Core Java 2, volume 1', cobre os fundamentos da Plataforma Java 2, standard edition (J2SE). Um tutorial objetivo e uma referência confiável, este livro apresenta exemplos testados exaustivamente no mundo real. As funcionalidades mais importantes da linguagem e da biblioteca são demonstradas com programas de exemplo deliberadamente simples, mas que não são falsos nem incompletos. Mais importante - todos os programas foram atualizados para o J2SE 5.0 e deverão constituir bons pontos de partida para os seus próprios códigos. Você não encontrará exemplos inúteis aqui. Este é um livro para programadores que desejam escrever código real para resolver problemas reais. Este livro se concentra nos conceitos fundamentais da linguagem Java, junto com o básico da programação de interfaces de usuário, e fornece uma abordagem detalhada de programação orientada a objetos; reflexão e proxies; interfaces e classes externas; o modelo listener de eventos; elaboração de interfaces gráficas de usuário, com o kit de ferramentas UI Swing; tratamentos de exceções; stream de input/output e serialização de objetos; programação genérica.

"This is the best book on patterns since the Gang of Four's Design Patterns. The book manages to be a resource for three of the most important trends in professional programming: Patterns, Java, and UML." -Larry O'Brien, Founding Editor, Software Development, on Patterns in Java, Volume 1 Picking up where he left off in his bestselling Patterns in Java, Volume 1, Mark Grand arms you with 50 new and reusable Java patterns-some available for the first time-that help you create more elegant and reusable designs. As with Volume 1, each pattern is documented in UML and, where appropriate, a code example or an example in the core Java API is provided. Volume 2 gives you: * 7 GRASP patterns that show you how to assign responsibilities to classes * 12 GUI Design patterns * 13 Organizational Coding patterns that help you to structure your code for readability and easier maintenance * 5 Coding Optimization patterns help to improve your program's performance in ways that a compiler's automatic optimizations cannot * 5 Code Robustness patterns * 8 Testing patterns that describe different methods for software testing, including Black Box, Clean Room, and System Testing * Real-world case studies that illustrate when and how to use the patterns * A tutorial for writing your own designs in UML * Pointers on using UML and patterns in development analysis, implementation, and testing * Tons of sample code The CD-ROM contains: * All the code examples found in the book * Evaluation versions of Together/J Whiteboard Edition from Object International (www.togetherj.com), Optimizelt from Intuitive Systems, AssertMate version 1.0 from Reliable Software Technologies, and jtest! and CodeWizard for Java(TM) from ParaSoft

The fastest way to get certified for the exams CX-310-252A and CX-310-027. This volume contains tips, tricks, and hints on all the content included in these tests. Completely revised and up-to-date coverage of Generic programming, restrictions and limitations, type bounds, wildcard types, and generic reflection Swing GUI development, including input validation and other enhancements Exception handling and debugging, including chained exceptions, stack frames, assertions, and logging Streams and files, the new I/O API, memory-mapped files, file locking, and character set encoders/decoders Regular expressions using the powerful java.util.regex package Inner classes, reflection, and dynamic proxies Application packaging and the Preferences API The seventh edition of Core Java 2, Volume I, covers the fundamentals of the Java 2 Platform, Standard Edition (J2SE). A no-nonsense tutorial and reliable reference, this book features thoroughly tested real-world examples. The most important language and library features are demonstrated with deliberately simple sample programs, but they aren't fake and they don't cut corners. More importantly, all of the programs have been updated for J2SE 5.0 and should make good starting points for your own code. You won't find any toy examples here. This is a book for programmers who want to write real code to solve real problems. Volume I concentrates on the fundamental concepts of the Java language, along with the basics of user-interface programming and provides detailed coverage of Object-oriented programming Reflection and proxies Interfaces and inner classes The event listener model Graphical user-interface design with the Swing UI toolkit Exception handling Stream input/output and object serialization Generic programming For the same real-world treatment of enterprise features and advanced user-interface programming, look for the forthcoming new edition of Core Java 2, Volume II - Advanced Features. It includes new sections on metadata and other J2SE 5.0 enhancements along with complete coverage of: Multithreading; Distributed objects; Databases; Advanced GUI components; Native methods; XML Processing; Network programming; Collection classes; Advanced graphics; Internationalization; JavaBeans.

CD-ROM contains: Ready-to-run sample programs along with trial versions of WebSphere and DB2.

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"This is the best book on patterns since the Gang of Four's Design Patterns. The book manages to be a resource for three of the most important trends in professional programming: Patterns, Java, and UML." —Larry O'Brien, Founding Editor, Software Development Magazine Since the release of Design Patterns in 1994, patterns have become one of the most important new technologies contributing to software design and development. In this volume Mark Grand presents 41 design patterns that help you create more elegant and reusable designs. He revisits the 23 "Gang of Four" design patterns from the perspective of a Java programmer and introduces many new patterns specifically for Java. Each pattern comes with the complete Java source code and is diagrammed using UML. Patterns in Java, Volume 1 gives you: 11 Behavioral Patterns, 9 Structural Patterns, 7 Concurrency Patterns, 6 Creational Patterns, 5 Fundamental

Design Patterns, and 3 Partitioning Patterns Real-world case studies that illustrate when and how to use the patterns Introduction to UML with examples that demonstrate how to express patterns using UML The CD-ROM contains: Java source code for the 41 design patterns Trial versions of Together/J Whiteboard Edition from Object International (www.togetherj.com); Rational Rose 98 from Rational Software (www.rational.com); System Architect from Popkin Software (www.popkin.com); and Optimizelt from Intuitive Systems, Inc.

The release of Java SE 8 introduced significant enhancements that impact the Core Java technologies and APIs at the heart of the Java platform. Many old Java idioms are no longer required and new features like lambda expressions will increase programmer productivity, but navigating these changes can be challenging. Core Java for the Impatient is a complete but concise guide to Java SE 8. Written by Cay Horstmann--the author of Java SE 8 for the Really Impatient and Core Java(tm), the classic, two-volume introduction to the Java language--this indispensable new tutorial offers a faster, easier pathway for learning the language and libraries. Given the size of the language and the scope of the new features introduced in Java SE 8, there's plenty of material to cover, but it's presented in small chunks organized for quick access and easy understanding. If you're an experienced programmer, Horstmann's practical insights and sample code will help you quickly take advantage of lambda expressions (closures), streams, and other Java language and platform improvements. Horstmann covers everything developers need to know about modern Java, including Crisp and effective coverage of lambda expressions, enabling you to express actions with a concise syntax A thorough introduction to the new streams API, which makes working with data far more flexible and efficient A treatment of concurrent programming that encourages you to design your programs in terms of cooperating tasks instead of low-level threads and locks Up-to-date coverage of new libraries like Date and Time Other new features that will be especially valuable for server-side or mobile programmers Whether you are just getting started with modern Java or are an experienced developer, this guide will be invaluable for anyone who wants to write tomorrow's most robust, efficient, and secure Java code.

Core Java® has long been recognised as the leading, no-nonsense tutorial and reference for experienced programmers who want to write robust Java code for real-world applications. Now, Core Java®, Volume II-Advanced Features, 11th Edition, has been updated to reflect Java SE 9. Core Java, Vol. II covers advanced user-interface programming and the enterprise features of the Java SE 9 platform. It carefully explains the most important language and library features and shows how to build real-world applications with thoroughly tested examples. The example programs have been carefully crafted to be easy to understand as well as useful in practice, so you can rely on them as the starting point for your own code. All of the code examples have been rewritten to reflect modern Java best practices and code style. The critical new features introduced with Java SE 9 are all thoroughly explored with the depth and completeness that readers expect from this title.

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Java 2.0 makes major improvements in areas that are critical to sophisticated developers. This book includes expert guidance on the basics of Java 2 multithreading, networking, database connectivity, remote objects, JavaBeans, and security.

Still the bestselling Java book for experienced programmers, this volume has complete and up to date coverage of release 1.4 features. New examples on CD-ROM illustrate advanced features and reinforced coverage of new APIs in volume one. "Core Java 2 Resource Kit" delivers real-world guidance users need to solve the most challenging programming problems.

7 Hours of Video Instruction Core Java®, Volumes I and II, have long been recognized as the leading, no-nonsense tutorial and reference for experienced programmers who want to write robust Java code for real-world applications. In Core Java ® : Advanced LiveLessons , Cay S. Horstmann takes that same approach to introducing experienced programmers to Java, with detailed demonstration. This training pairs with the tenth edition of Core Java ® , Volume II Advanced Features , which has been fully updated to cover Java SE 8. In these video LiveLessons, you will learn about advanced Java language features along with the most useful parts of the standard library. In order to take full advantage of the lessons, be sure to download the companion source code . Related Content: Core Java LiveLessons (Complete Video Course) Core Java, Volume I--Fundamentals, Tenth Edition Core Java, Volume II--Advanced Features, Tenth Edition Lessons 1 and 2 cover lambda expressions, an important addition to Java 8, and the streams library, which makes extensive use of lambda expressions. With streams, you can efficiently analyze large data sets, simply by telling what you want to achieve. Leave it to the streams library to figure out the "how." Lesson 3 covers bread-and-butter issues related to input and output: text processing, file handling, regular expressions, and connecting to web servers. Lesson 4 covers concurrency, the most important lesson within this LiveLessons training. Nowadays, processors have multiple cores and we need to keep them busy. But it is challenging to write programs that safely run tasks in parallel. This lesson gives you a set of strategies to meet that challenge. The next two lessons are all about building tools. Lesson 5 introduces the annotation mechanism. You will see how tools use annotations for checking program correctness, generating code, interfacing with databases and web services. Another way of making your programs smarter is by allowing your users to provide extensions in Java or a scripting language. Lesson 6 shows you how to run the Java compiler or a language interpreter in your programs. In Lesson 7 , you will learn how to write programs for users anywhere in the world, with their preferences for formatting and messages in their language. Lesson 8 covers the new java.time package that handles complexities like leap years, time zones, and daylight savings time. The last two lessons, Lessons 9 and 10 , show you how to interface wit...

The #1 Guide for Serious Programmers: Fully Updated for Java SE 9, 10 & 11 Cay Horstmann's Core Java, Volume I—Fundamentals, Eleventh Edition, is the definitive guide to writing robust, maintainable

code with the Java SE 9, 10, and 11 language and libraries. Horstmann writes for serious programmers who use Java in production projects, and need a deep, practical understanding of the language and API. Throughout, he delivers what you need most: hundreds of real (non-toy) examples revealing the most powerful, effective ways to get the job done. Updated examples reflect the new var keyword and take advantage of improvements in the Java API. You'll learn how to use JShell's new Read-Eval-Print Loop (REPL) for more rapid and exploratory development, and apply new features of the APIs for streams, input/output, processes, and concurrency. In this first of two volumes, Horstmann offers in-depth coverage of fundamental Java and UI programming, including object-oriented programming, generics, collections, lambda expressions, Swing design, concurrency, and functional programming. If you're an experienced programmer moving to Java SE 9, 10, or 11, there's no better source for expert insight, solutions, and code. Master foundational techniques, idioms, and best practices for writing superior Java code Efficiently implement encapsulation and inheritance Use sound principles of object-oriented design Leverage the full power of objects with interfaces, lambda expressions, and inner classes Harden programs through effective exception handling and debugging Write safer, more reusable code with generic programming Improve performance and efficiency with Java's standard collections Build cross-platform GUIs with the Swing toolkit Fully utilize multicore processors with Java's improved concurrency See Core Java, Volume II—Advanced Features, Eleventh Edition (ISBN-13: 978-0-13-516631-4), for expert coverage of Java 9, 10, and 11 enterprise features, the module system, annotations, networking, security, and advanced UI programming. Register your book for convenient access to downloads, updates, and/or corrections as they become available. See inside book for details.

Readers familiar with Horstmann's original, two-volume "Core Java" books who are looking for a comprehensive but condensed guide to all of the new features and functions of Java SE 9 will learn how these new features impact the language and core libraries.

Written for experienced programmers who need detailed explanations of the JFC libraries, this volume covers all aspects of the swing framework. Swing is the long-awaited successor to the AWT's heavyweight components.

The capability to design quality software and implement modern information systems is at the core of economic growth in the 21st century. This book aims to review and analyze software engineering technologies, focusing on the evolution of design and implementation platforms as well as on novel computer systems.

This certification is for Sun Certified Programmers for Java 2 Platform who are using servlet and JavaServer Pages APIs to develop Web applications using the Java 2 Platform, Enterprise Edition. This book focuses on exactly what readers need to get certified now--featuring test-taking strategies, timesaving study tips, and a special Cram Sheet that includes tips, acronyms, and memory joggers that are not available anywhere else.

Core Java, Volume 2-Advanced Features, 8/E Pearson Education India Core Java 2: Fundamentals Prentice Hall Professional

Core Java has long been recognised as the leading no-nonsense tutorial and reliable reference. It carefully explains the most important language and library features and shows how to build real-world applications with thoroughly tested examples. The example programs have been carefully crafted to be easy to understand as well as useful in practice, so you can rely on them as the starting point for your own code. All of the code examples have been rewritten to reflect modern Java best practices and code style. The critical new features introduced with Java SE 9 are all thoroughly explored with the depth and completeness that readers expect from this title. Core Java Volume I walks readers through the all details and takes a deep dive into the most critical features of the language and core libraries. This guide will help you Leverage your existing programming knowledge to quickly master core Java syntax Understand how encapsulation, classes, and inheritance work in Java Master interfaces, inner classes, and lambda expressions for functional programming Improve program robustness with exception handling and effective debugging Write safer, more readable programs with generics and strong typing Use pre-built collections to collect multiple objects for later retrieval Master concurrent programming techniques from the ground up Build modern cross-platform GUIs with standard Swing components Deploy configurable applications and applets, and deliver them across the Internet Simplify concurrency and enhance performance with new functional techniques

A new edition of this title is available, ISBN-10: 0132354799 ISBN-13: 9780132354790 Completely revised and up-to-date coverage of Multithreading - including the java.util.concurrent library, locks, condition objects, futures, thread pools, thread-safe collections, threads and Swing Collection classes - collections framework, concrete collections, and generic utility methods

Annotations and metadata - using annotations to automate programming tasks, JDK 5.0 standard annotations, the apt tool for source-level annotation processing, and bytecode engineering Advanced Swing and AWT - lists, trees, tables, and other advanced components; image processing and printing JavaBeans - including property editors, customizers, and long-term

persistence XML - DOM and SAX parsers, XPath, and XSL transformations The seventh edition of Core Java 2, Volume II, covers advanced user-interface programming and the enterprise features of the Java 2 Platform, Standard Edition (J2SE). Like Volume I (which covers the most important language and library features), this book has been completely updated and revised for J2SE 5.0. All of the sample programs have been updated and carefully crafted to illustrate practical solutions to the type of real-world problems professional developers encounter. Volume II includes new sections on annotations and other J2SE 5.0 enhancements, along with complete coverage of Multithreading Distributed objects Databases JNDI and LDAP Advanced GUI components Native methods XML processing Network programming Collection classes Advanced graphics Internationalization JavaBeans Annotations.

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CD-ROM contains: source code for book examples -- PDF copy of ch. 10 from Core Java foundation classes -- NetBeans for Windows and Unix -- Windows and Linux evaluation copies of SwingSoft SwingBuilder.

Discusses the Sun certification test and Java programming fundamentals, offers sample tests and answers, and provides a cram sheet.

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????Tim Peierls?Joshua Bloch?Joseph Bowbeer?David Holmes?Doug Lea

The Internet Encyclopedia in a 3-volume reference work on the internet as a business tool, IT platform, and communications and commerce medium.

Demonstrates the advanced features of the most recent upgrade to the Java programming language, covering topics including multithreading, collections, networking, remote objects, JavaBeans, and GUI-building techniques.

Demonstrates the advanced features of the most recent upgrade to the Java programming language

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