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Explains how to customize and troubleshoot the most recent version of the Mac operating system, covering the Mac interface, system maintenance, desktop publishing, Sherlock, networking, and creating themes.

Sometimes the simplest answer is the best. Many Enterprise Java developers, accustomed to dealing with Java's spiraling complexity, have fallen into the habit of choosing overly complicated solutions to problems when simpler options are available. Building server applications with "heavyweight" Java-based architectures, such as WebLogic, JBoss, and WebSphere, can be costly and cumbersome. When you've reached the point where

you spend more time writing code to support your chosen framework than to solve your actual problems, it's time to think in terms of simplicity. In *Better, Faster, Lighter Java*, authors Bruce Tate and Justin Gettland argue that the old heavyweight architectures are unwieldy, complicated, and contribute to slow and buggy application code. As an alternative means for building better applications, the authors present two "lightweight" open source architectures: Hibernate--a persistence framework that does its job with a minimal API and gets out of the way, and Spring--a container that's not invasive, heavy or complicated. Hibernate and Spring are designed to be fairly simple to learn and use, and place reasonable de-

mands on system resources. *Better, Faster, Lighter Java* shows you how they can help you create enterprise applications that are easier to maintain, write, and debug, and are ultimately much faster. Written for intermediate to advanced Java developers, *Better, Faster, Lighter Java*, offers fresh ideas--often unorthodox--to help you rethink the way you work, and techniques and principles you'll use to build simpler applications. You'll learn to spend more time on what's important. When you're finished with this book, you'll find that your Java is better, faster, and lighter than ever before. The technical resources, budgets, curriculum, and profile of the student body are all factors that play in implementing course design. Learning manage-

ment systems administrate these aspects for the development of new methods for course delivery and corresponding instructional design. Learning Management Systems and Instructional Design: Best Practices in Online Education provides an overview on the connection between learning management systems and the variety of instructional design models and methods of course delivery. This book is a useful source for administrators, faculty, instructional designers, course developers, and businesses interested in the technological solutions and methods of online education.

With a variety of interactive learning features and user-friendly pedagogy, Java 5 Illuminated provides a comprehensive introduction to programming using the most current version of the Java language, Java 5. In addition to providing all of the material necessary for a complete introductory course in Java programming, the book also features flexible coverage of other topics of interest, including Graphical User Interfaces, data structures, file input and output, and applets. Object-Oriented Programming concepts are developed progressively and rein-

forced through numerous Programming Activities, allowing students to fully understand and implement both basic and sophisticated techniques at a pace which is neither too fast nor too slow. OO concepts are blended appropriately with fundamental programming techniques, including accumulation, counting, finding maximum and minimum values, and using flag and toggle variables, and supplemented with coverage of sound software engineering practices. Distinguishing this text from other introductory Java books is the authors' extensive use of an "active learning" approach to presenting the material through abundant use of graphics, visualization exercises, animations, numerous full and partial program examples, group projects, and best practices. These and other pedagogical devices facilitate hands-on, interactive learning, and make the book equally appropriate for use in "traditional" lecture environments, a computer-equipped classroom, or lab environment. Java 5 Illuminated Errata Sheet

With its flexibility for programming both small and large projects, Scala is an ideal language for teach-

ing beginning programming. Yet there are no textbooks on Scala currently available for the CS1/CS2 levels. Introduction to the Art of Programming Using Scala presents many concepts from CS1 and CS2 using a modern, JVM-based language that works well for both programming in the small and programming in the large. The book progresses from true programming in the small to more significant projects later, leveraging the full benefits of object orientation. It first focuses on fundamental problem solving and programming in the small using the REPL and scripting environments. It covers basic logic and problem decomposition and explains how to use GUIs and graphics in programs. The text then illustrates the benefits of object-oriented design and presents a large collection of basic data structures showing different implementations of key ADTs along with more atypical data structures. It also introduces multithreading and networking to provide further motivating examples. By using Scala as the language for both CS1 and CS2 topics, this textbook gives students an easy entry into programming small projects as

well as a firm foundation for taking on larger-scale projects. Many student and instructor resources are available at www.programmingusingscala.net

This book of readings is a flexible resource for undergraduate and graduate courses in the evolving fields of computer and Internet ethics. Each selection has been carefully chosen for its timeliness and analytical depth and is written by a well-known expert in the field. The readings are organized to take students from a discussion on ethical frameworks and regulatory issues to a substantial treatment of the four fundamental, interrelated issues of cyberethics: speech, property, privacy, and security. A chapter on professionalism rounds out the selection. This book makes an excellent companion to *CyberEthics: Morality and Law in Cyberspace*, Third Edition by providing articles that present both sides of key issues in cyberethics.

For a first-year graduate-level course on nonlinear systems. It may also be used for self-study or reference by engineers and applied mathematicians. The text is written to build the level of mathe-

mathematical sophistication from chapter to chapter. It has been reorganized into four parts: Basic analysis, Analysis of feedback systems, Advanced analysis, and Nonlinear feedback control.

If you need help writing programs in Python 3, or want to update older Python 2 code, this book is just the ticket. Packed with practical recipes written and tested with Python 3.3, this unique cookbook is for experienced Python programmers who want to focus on modern tools and idioms. Inside, you'll find complete recipes for more than a dozen topics, covering the core Python language as well as tasks common to a wide variety of application domains. Each recipe contains code samples you can use in your projects right away, along with a discussion about how and why the solution works. Topics include: Data Structures and Algorithms Strings and Text Numbers, Dates, and Times Iterators and Generators Files and I/O Data Encoding and Processing Functions Classes and Objects Metaprogramming Modules and Packages Network and Web Programming Concurrency Utility Scripting and System Administration

Testing, Debugging, and Exceptions C Extensions

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

Revised and updated with the latest information in the field, the Fifth Edition of best-selling *Computer Science Illuminated* continues to provide students with an engaging breadth-first overview of computer science principles and provides a solid foundation for those continuing their study in this dynamic and exciting discipline. Authored by two of today's most respected computer science educators, Nell Dale and John Lewis, the text carefully unfolds the many layers of computing from a language-neutral perspective, beginning with the information layer, progressing through the hardware, programming, operating systems, application, and communication layers, and ending with a discussion on the limitations of computing. - Provided by publisher.

New and classical results in computational complexity, including interactive proofs, PCP, derandomiza-

tion, and quantum computation. Ideal for graduate students.

Java Software Solutions teaches a foundation of programming techniques to foster well-designed object-oriented software. Heralded for its integration of small and large realistic examples, this worldwide best-selling text emphasizes building solid problem-solving and design skills to write high-quality programs. MyProgrammingLab, Pearson's new online homework and assessment tool, is available with this edition.

Fundamentals of OOP and Data Structures in Java is a text for an introductory course on classical data structures. Part One of the book presents the basic principles of Object-Oriented Programming (OOP) and Graphical User Interface (GUI) programming with Java as the example language. Part Two introduces each of the major data structures with supporting, GUI-based laboratory programs designed to reinforce the basic concepts and principles of the text. These laboratories allow the reader to explore and experiment with the properties of each data structure. All source code for the laboratories is available on the web. By inte-

grating the principles of OOP and GUI programming, this book takes the unique path of presenting the fundamental issues of data structures within the context of paradigms that are essential to today's professional software developer. The authors assume the reader has only an elementary understanding of Java and no experience with OOP.

Written by the inventors of the technology, The Java™ Language Specification, Third Edition, is the definitive technical reference for the Java™ programming language. If you want to know the precise meaning of the language's constructs, this is the source for you. The book provides complete, accurate, and detailed coverage of the Java programming language. It provides full coverage of all new features added since the previous edition, including generics, annotations, asserts, autoboxing, enums, for-each loops, variable arity methods, and static import clauses. This text shows that insights in quantum physics can be obtained by exploring the mathematical structure of quantum mechanics. It presents the theory of Hermitean operators and Hilbert spaces, providing the framework

for transformation theory, and using th

Immersing students in Java and the Java Virtual Machine (JVM), Introduction to Compiler Construction in a Java World enables a deep understanding of the Java programming language and its implementation. The text focuses on design, organization, and testing, helping students learn good software engineering skills and become better programmers. The book covers all of the standard compiler topics, including lexical analysis, parsing, abstract syntax trees, semantic analysis, code generation, and register allocation. The authors also demonstrate how JVM code can be translated to a register machine, specifically the MIPS architecture. In addition, they discuss recent strategies, such as just-in-time compiling and hotspot compiling, and present an overview of leading commercial compilers. Each chapter includes a mix of written exercises and programming projects. By working with and extending a real, functional compiler, students develop a hands-on appreciation of how compilers work, how to write compilers, and how the Java language behaves. They also get invaluable practice

working with a non-trivial Java program of more than 30,000 lines of code. Fully documented Java code for the compiler is accessible at

<http://www.cs.umb.edu/j--/>

Describes Java application development on Linux, covering such topics as business-logic object analysis, Java servlet UIs, JSP, Swing GUIs, and database design.

This book offers a well-balanced presentation on designing algorithms, complexity analysis of algorithms, and computational complexity that is accessible to mainstream computer science students who have a background in college algebra and discrete structures.

A comprehensive introduction to Java's online help system discusses JavaHelp's primary features and options and offers programmers practical guidelines for creating a basic JavaHelp system, prepare help topics, and implement the help system within various Java applications and applets. Original. (Intermediate)

An introduction to embedding systems for C and C++ programmers encompasses such topics as testing memory devices, writing and erasing Flash memory, verifying nonvo-

latile memory contents, and much more. Original. (Intermediate).

C# .NET Illuminated is an introductory programming textbook that takes a step-by-step approach to event-driven programming and rapid application development using Microsoft Visual Studio .NET. Readers learn how to maximize the power of the C# language and the Visual Studio .NET environment through a hands-on, highly visual approach complete with numerous examples, sample applications, and programming exercises. Features designed to reinforce key skills and concepts are found throughout, making this book ideal for use in a classroom/lab setting or as a self-study guide.

Computer Architecture/Software Engineering

A superb visual reference to the principles of architecture Now including interactive CD-ROM! For more than thirty years, the beautifully illustrated *Architecture: Form, Space, and Order* has been the classic introduction to the basic vocabulary of architectural design. The updated Third Edition features expanded sections on circulation, light, views, and site context, along with new con-

siderations of environmental factors, building codes, and contemporary examples of form, space, and order. This classic visual reference helps both students and practicing architects understand the basic vocabulary of architectural design by examining how form and space are ordered in the built environment. Using his trademark meticulous drawing, Professor Ching shows the relationship between fundamental elements of architecture through the ages and across cultural boundaries. By looking at these seminal ideas, *Architecture: Form, Space, and Order* encourages the reader to look critically at the built environment and promotes a more evocative understanding of architecture. In addition to updates to content and many of the illustrations, this new edition includes a companion CD-ROM that brings the book's architectural concepts to life through three-dimensional models and animations created by Professor Ching.

Java developers know that design patterns offer powerful productivity benefits but few books have been specific enough to address their programming challenges. With *"Java Design Patterns"*, there's

finally a hands-on guide focused specifically on real-world Java development. The book covers three main categories of design patterns--creational, structural, and behavioral--and the example programs and useful variations can be found on the accompanying CD-ROM.

"This book gives a general coverage of learning management systems followed by a comparative analysis of the particular LMS products, review of technologies supporting different aspect of educational process, and, the best practices and methodologies for LMS-supported course delivery"--Provided by publisher.

"Multithreaded Programming with Java Technology is the first complete guide to multithreaded development with the Java 2 platform. Multithreading experts Bil Lewis and Daniel J. Berg cover the underlying structures upon which threads are built; thread construction; and thread lifecycles, including birth, life, death, and cancellation. Next, using extensive code examples, they cover everything developers need to know to make the most of multithreading."--BOOK JACKET.Title Summary field provided by Black-

well North America, Inc. All Rights Reserved
Functional and flexible, this guide takes an object-first approach to Java programming and problem using games and puzzles. Updated to cover Java version 1.5 features, such as generic types, enumerated types, and the Scanner class. Offers independent introductions to both a command-line interface and a graphical user interface (GUI). Features coverage of Unified Modeling Language (UML), the industry-standard, object-oriented design tool. Illustrates key aspects of Java with a collection of game and puzzle examples. Instructor and Student resources available online. For introductory computer programming students or professionals interested in learning Java.

Foundations of Algorithms, Fourth Edition offers a well-balanced presentation of algorithm design, complexity analysis of algorithms, and computational complexity. The volume is accessible to mainstream computer science students who have a background in college algebra and discrete structures. To support their approach, the authors present mathematical concepts using standard En-

glish and a simpler notation than is found in most texts. A review of essential mathematical concepts is presented in three appendices. The authors also reinforce the explanations with numerous concrete examples to help students grasp theoretical concepts.

Intro Computer Science (CS0)

Inspired by the success of their best-selling introductory programming text, Java Software Solutions, authors Lewis, DePasquale, and Chase now release Java Foundations, Third Edition. This text is a comprehensive resource for instructors who want a two- or three-semester introduction to programming textbook that includes detail on data structures topics. Java Foundations introduces a Software Methodology early on and revisits it throughout to ensure students develop sound program development skills from the beginning. Control structures are covered before writing classes, providing a solid foundation of fundamental concepts and sophisticated topics. The full text downloaded to your computer With eBooks you can: search for key concepts, words and phrases make highlights and notes as

you study share your notes with friends eBooks are downloaded to your computer and accessible either offline through the Bookshelf (available as a free download), available online and also via the iPad and Android apps. Upon purchase, you'll gain instant access to this eBook. Time limit The eBooks products do not have an expiry date. You will continue to access your digital ebook products whilst you have your Bookshelf installed.

Adapted from "Programming and Problem Solving with C++," this edition provides students with a clear, accessible introduction to C++, object-oriented programming, and the fundamentals of software development.

A Concise, Comprehensive Approach to Java Programming Java Foundations is a comprehensive textbook for introductory programming sequences. The versatile layout supports a two-or three-semester schedule and introduces you to the world of programming—from the basics, to complex data structures. Inspired by the success of their highly suc-

cessful text, Java Software Solutions, authors Lewis, DePasquale and Chase build a solid framework for lasting comprehension. The Fourth Edition is updated and revised to keep the content fully up-to-speed while incorporating changes from user feedback. One such revision is maintaining a section on Swing in addition to a separate chapter dedicated to JavaFX. Although JavaFX is slated to replace Swing as the main graphics package in Java, the large amount of existing Swing code will continue to make it relevant for some time to come. The overall flow of the text is redesigned for intuitive progression through programming discussions and problem solving.

A comprehensive introduction to type systems and programming languages. A type system is a syntactic method for automatically checking the absence of certain erroneous behaviors by classifying program phrases according to the kinds of values they compute. The study of type systems—and of programming languages from a type-theoretic perspective—has important appli-

cations in software engineering, language design, high-performance compilers, and security. This text provides a comprehensive introduction both to type systems in computer science and to the basic theory of programming languages. The approach is pragmatic and operational; each new concept is motivated by programming examples and the more theoretical sections are driven by the needs of implementations. Each chapter is accompanied by numerous exercises and solutions, as well as a running implementation, available via the Web. Dependencies between chapters are explicitly identified, allowing readers to choose a variety of paths through the material. The core topics include the untyped lambda-calculus, simple type systems, type reconstruction, universal and existential polymorphism, subtyping, bounded quantification, recursive types, kinds, and type operators. Extended case studies develop a variety of approaches to modeling the features of object-oriented languages.