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Java Software Structures: Designing and Using Data ...

Java Software Structures: Designing and Using Data Structures, 2013, 662 pages, John Lewis, Joseph Chase, 0133250121, 9780133250121, Pearson Education,

Java Software Structures: Designing and Using Data ...

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Model–view–controller (usually known as MVC) is a software design pattern commonly used for developing user interfaces that divides the related program logic into three interconnected elements. This is done to separate internal representations of information from the ways information is presented to and accepted from the user.

Java Software Structures: Designing and Using Data ...

The fourth edition of Java Software Structures embraces the enhancements of the latest version of Java, where all structures and collections are based on generics. The framework of the text walks the reader through three main areas: conceptualization, explanation, and implementation, allowing for a consistent and coherent introduction to data structures. Readers will learn how to develop high-quality software systems using well-designed collections and algorithms.

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The third edition of Java Software Structures embraces the enhancements of the latest version of Java (Java 6, as well as Java 5), where all structures and collections are based on generics. The framework of the text walks the reader through three main areas: conceptualization, explanation, and implementation, allowing for a consistent and coherent introduction to data structures. Readers learn how to develop high-quality software systems using well-designed collections and algorithms.

Java Software Structures: Designing and Using Data ...

Inspired by the success of their best-selling introductory programming text, Java Software Solutions, authors Lewis, DePasquale, and Chase now release Java Foundations, Second 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.

Java Software Structures: Designing and Using Data ...

This title teaches CS2 students how to develop high quality software systems that will withstand the test of users and the test of time. The authors provide a consistent presentation of data structures, starting with a conceptual overview.

Java Software Structures: Designing and Using Data ...

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 successful 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.

Java Software Structures: Designing and Using Data ...

Applets and applications are intertwined throughout the book to demonstrate computing concepts. Applets, introduced in Chapter 2, build on the excitement of the web, while applications allow students to gain a clear understanding of programming concepts. John Lewis and William Loftus have expanded their coverage of classes and objects with this edition to provide more in-depth discussion of methods and parameter passing, object relationships, and class design. Discussion of Swing components is also new to this edition, as is the inclusion of new Collection classes. Features *Provides an object-oriented approach to CS1 (Chapters 2 & 3 introduce object concepts; Chapter 4 and beyond show how to design and implement classes) *Hundreds of fully-implemented new and revised program examples *New chapter on I/O familiarizes students with the different facets of user interaction *The new, optional Graphics Track throughout the text reinforces the primary themes of each chapter by using graphical examples and discussing new graphics material *New syntax boxes highlight Java language elements with syntax diagrams, short descriptions, and concise examples *Web Bonus sections highlight extra i

Java Software Structures: Designing and Using Data ...

"Designing Data Structures in Java" provides a solid foundation for anyone seeking to understand the how and the why of programming data structures. Intended for the reader with an introductory Java background, this book aims to meet the needs of students enrolled in a typical "Data Structures and Algorithms with Java" (CS2) course. Starting with a description of the software development process, the book takes a problem-solving approach to programming, and shows how data structures form the building blocks of well-designed and cleanly-implemented programs. Topics include: Problem solving, Abstraction, Java objects and references, Arrays, Abstract Data Types, Ordered lists, Sorting, Algorithm evaluation, Binary searches, Stacks, Queues, Linked Lists, Double-ended lists, Recursion, Doubly-linked lists, Binary Search Trees, Traversals, Heaps, and more. Mr. Brouillette's 25+ years of experience as a software engineer and educator allow him to bring a unique and refreshing perspective to the topic of data structures which is rigorous, accessible and practical. Material is presented in a 'top down' approach, beginning with explanations of why different data structures are used, continuing with clearly illustrated concepts of how the structures work, and ending with clear, neat Java code examples. Succinct graphics provide visual representations of the ideas, and verbal explanations supplement the documented code. Each chapter ends with a Chapter Checklist summary page which distills and highlights the most important ideas from the chapter. The book is intended as a step by step explanation and exploration of the how and why of using Data Structures in modern computer program development. Even though the Java language is used in the explanation and implementation of the various structures, the concepts are applicable to other languages which the reader may encounter in the future. The topics included have been sequenced to build upon each other, always with the perspective of the beginning programming student in mind. There are discussions of software engineering concepts and goals, and motivations for learning different data structures. This text brings the beginning Java student from novice programmer to the next level of programming maturity.

Java Software Structures: Designing and Using Data ...

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. Subscriptions to MyProgrammingLab are available to purchase online or packaged with your textbook (unique ISBN). Use the following ISBNs to purchase MyProgrammingLab: Java Software Solutions: Foundations of Program Design & MyProgrammingLab with Pearson eText Student Access Code Card for Java Software Solutions, 7/E ISBN:0132760770 This package includes the Java Software Solutions, textbook, an access card for MyProgrammingLab, and a Pearson eText student access code card for the Java Software Solutions Pearson eText. MyProgrammingLab with Pearson eText -- Access Card -- for Java Software Solutions, 7/E ISBN: 013277478X This stand-alone access card package contains an access card for MyProgrammingLab and a Pearson eText student access code card for the Java Software Solutions Pearson eText. Purchase instant access to MyProgrammingLab online.

Java Software Structures: Designing and Using Data ...

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.

