Java™
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A Client-View Approach

Hamzeh Roumani

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The British National Bibliography Arthur James Wells,2006   *Java by Abstraction* Hamzeh Roumani,2011-03 For any computer science instructor who has lost first year students to boredom or frustration Java by Abstraction A Client View Approach comes as a welcome breath of fresh air an introduction to Java programming that encourages students to build interesting applications from its first page Instead of following the conventional approach to CSE Roumani presents the fundamentals of object oriented programming through an objects first model It s like learning to drive a car before opening the hood and examining the engine a way to show students that with just a little practice they can program in Java with ease Intended for use in a first course in object oriented programming in undergraduate computer science or computer engineering programs this book helps students develop system thinking and a deeper understanding of the underlying concepts of Java programming By urging students to build meaningful apps from the beginning this innovative approach engages them more effectively and quickly   **Data Abstraction and Problem Solving with Java** Frank M. Carrano,Janet J. Prichard,2001 This work focuses on the important concepts of data abstraction and data structures It also introduces students to java classes along with other basic concepts of object oriented programming including inheritance polymorphism interfaces and packages   *Data Abstraction and Problem Solving with Java* Frank M. Carrano,Janet J. Prichard,2006 The second edition in Java of the classic Walls and Mirrors approach to programming designs solutions to problems using both data abstraction the walls and recursion the Mirrors Data Abstraction and Problem Solving with Java Walls and Mirrors 2eprovides a focus on the important concepts of data abstraction and data structures in a way that beginning programmers find accessible The first part of the book covers problem solving techniques including a review of Java fundamentals principles of programming and software engineering recursion and data abstraction and linked lists Later chapters focus on problem solving with abstract data types including stacks queues algorithm efficiency and sorting trees and graphs This edition contains enhanced material on OO implementation MARKET Readers searching for problem solving solutions through abstraction algorithmic refinement data structures and recursion   *Data Abstraction and Problem Solving with Java* Janet J. Prichard,Frank M. Carrano,2011 Data Abstraction and Problem Solving in C and is now updated to the Java programming language It uses the running theme of Walls and Mirrors to help make clear the challenging concepts of recursion the mirrors and data abstraction the walls Authors Carrano and Prichard cover key object oriented concepts including encapsulation inheritance and polymorphism However the focus of the book remains on data abstraction instead of simply Java syntax   **Data Structures and Abstractions with Java** Frank M. Carrano,2007 This book Includes generic data types as well as enumerations for each loops the interface Iterable the class Scanner assert statements and autoboxing and unboxing Amazon   Program Development in Java Barbara Liskov,John Guttag,2000-06-06 Written by a world renowned expert on programming methodology and the winner of the 2008 Turing Award this book shows how to build production

quality programs programs that are reliable easy to maintain and quick to modify Its emphasis is on modular program construction how to get the modules right and how to organize a program as a collection of modules The book presents a methodology effective for either an individual programmer who may be writing a small program or a single module in a larger one or a software engineer who may be part of a team developing a complex program comprised of many modules Both audiences will acquire a solid foundation for object oriented program design and component based software development from this methodology Because each module in a program corresponds to an abstraction such as a collection of documents or a routine to search the collection for documents of interest the book first explains the kinds of abstractions most useful to programmers procedures iteration abstractions and most critically data abstractions Indeed the author treats data abstraction as the central paradigm in object oriented program design and implementation The author also shows with numerous examples how to develop informal specifications that define these abstractions specifications that describe what the modules do and then discusses how to implement the modules so that they do what they are supposed to do with acceptable performance Other topics discussed include Encapsulation and the need for an implementation to provide the behavior defined by the specification Tradeoffs between simplicity and performance Techniques to help readers of code understand and reason about it focusing on such properties as rep invariants and abstraction functions Type hierarchy and its use in defining families of related data abstractions Debugging testing and requirements analysis Program design as a top down iterative process and design patterns The Java programming language is used for the book s examples However the techniques presented are language independent and an introduction to key Java concepts is included for programmers who may not be familiar with the language *Programming Abstractions in Java* Eric Roberts, *Java Programming Advanced Topics W/2cds* Joe Wigglesworth,2007 Program Development in Java B. Liskov,John Guttag,2001 **Thinking in Java** Bruce Eckel,2003 Provides link to sites where book in zip file can be downloaded Java Precisely, third edition Peter Sestoft,2016-03-18 An updated concise reference for the Java programming language version 8 0 and essential parts of its class languages offering more detail than a standard textbook The third edition of Java Precisely provides a concise description of the Java programming language version 8 0 It offers a quick reference for the reader who has already learned or is learning Java from a standard textbook and who wants to know the language in more detail The book presents the entire Java programming language and essential parts of the class libraries the collection classes the input output classes the stream libraries and Java 8 s facilities for parallel programming and the functional interfaces used for that Though written informally the book describes the language in detail and offers many examples For clarity most of the general rules appear on left hand pages with the relevant examples directly opposite on the right hand pages All examples are fragments of legal Java programs The complete ready to run example programs are available on the book s website This third edition adds material about functional parallel processing of arrays default and static methods on interfaces a brief description of the

memory model and visibility across concurrent threads lambda expressions method reference expressions and the related functional interfaces and stream processing including parallel programming and collectors **Objects, Abstraction, Data Structures and Design** Elliot Koffman,2004-09 With Koffman and Wolfgang s Objects Abstraction Data Structures and Design Using Java you ll develop a thorough understanding of basic data structures and algorithms as well as essential design skills and principles Approximately 20 case studies show you how to apply these skills and principles to real world problems Along the way you ll gain an understanding of why different data structures are needed the applications they are suited for and the advantages and disadvantages of their possible implementations BOOK JACKET LET US JAVA-3rd EDITION Yashavant kanetkar,2018-06-01 Description Java Language is very popularly used for creating applications for PC Laptop Tablet Web and Mobile world Learning a language that can work on so many different platforms can be a challenge This is where you would find this book immediately useful It follows simple and easy narration style It doesn t assume any programming background It begins with the basics and steadily builds the pace so that the reader finds it easy to handle complex topics towards the end Each chapter has been designed to create a deep and lasting impression on reader s mind Object Oriented Programming has been covered in detail to give a strong foundation for Java Programming Well thought out and fully working example programs and carefully crafted exercises of this book cover every aspect of Java programming Well through out and finally working examples and carefully crafted exercises of this book covers every aspect of Java Programming Some of the highlighting features of this book are A Data types Control InstructionsA Object Oriented ProgrammingA Classes ObjectsA Arrays StringsA Inheritance PolymorphismA InterfacesA PackagesA Exception HandlingA Effective IOA Multithreading SynchronizationA GenericsA Collection ClassesA GUI Using SwingA Database Connectivity UsingJDBc Table Of Contents An Overview of Java Getting Started More about Data Types Decision Control Instruction Loop Control Instruction Case Control Instruction Functions Advanced Features of Functions Introduction to OOP Classes and Objects Arrays Strings and Enums Inheritance Polymorphism Exception Handling Effective Input Output Multithreading in Java Generics Collection Classes User Interfaces JDBC Index **Objects, Abstraction, Data Structures and Design** Elliot B. Koffman,Paul A. T. Wolfgang,2004-08-09 A revolutionary book that intertwines problem solving and software engineering with the study of traditional data structures topics Promotes a five step methodology to limit program errors and increase efficiency problem specification analysis design implementation and testing The Java Application Programming Interface API is used throughout and wherever possible the specification and interface for a data structure follow the Java Collections Framework **Object-Orientation, Abstraction, and Data Structures Using Scala, Second Edition** Mark C. Lewis,Lisa L. Lacher,2017-01-06 Praise for the first edition The well written comprehensive book is aiming to become a de facto reference for the language and its features and capabilities The pace is appropriate for beginners programming concepts are introduced progressively through a range of examples and then used as tools for building applications in various

domains including sophisticated data structures and algorithms Highly recommended Students of all levels faculty and professionals practitioners D Papamichail University of Miami in CHOICE Magazine Mark Lewis Introduction to the Art of Programming Using Scala was the first textbook to use Scala for introductory CS courses Fully revised and expanded the new edition of this popular text has been divided into two books Object Orientation Abstraction and Data Structures Using Scala Second Edition is intended to be used as a textbook for a second or third semester course in Computer Science The Scala programming language provides powerful constructs for expressing both object orientation and abstraction This book provides students with these tools of object orientation to help them structure solutions to larger more complex problems and to expand on their knowledge of abstraction so that they can make their code more powerful and flexible The book also illustrates key concepts through the creation of data structures showing how data structures can be written and the strengths and weaknesses of each one Libraries that provide the functionality needed to do real programming are also explored in the text including GUIs multithreading and networking The book is filled with end of chapter projects and exercises and the authors have also posted a number of different supplements on the book website Video lectures for each chapter in the book are also available on YouTube The videos show construction of code from the ground up and this type of live coding is invaluable for learning to program as it allows students into the mind of a more experienced programmer where they can see the thought processes associated with the development of the code About the Authors Mark Lewis is an Associate Professor at Trinity University He teaches a number of different courses spanning from first semester introductory courses to advanced seminars His research interests included simulations and modeling programming languages and numerical modeling of rings around planets with nearby moons Lisa Lacher is an Assistant Professor at the University of Houston Clear Lake with over 25 years of professional software development experience She teaches a number of different courses spanning from first semester introductory courses to graduate level courses Her research interests include Computer Science Education Agile Software Development Human Computer Interaction and Usability Engineering as well as Measurement and Empirical Software Engineering **The Object of Data Abstraction and Structures Using Java** David D. Riley,2003 JS123 6 0 201 71359 4 Riley David The Object of Data Abstraction and Structures Using Java This book covers traditional data structures using an early object oriented approach and by paying special attention to developing sound software engineering skills Provides extensive coverage of foundational material needed to study data structures objects and classes software specification inheritance exceptions and recursion Provides an object oriented approach to abstract design using UML class diagrams and several design patterns Emphasizes software engineering skills as used in professional practice MARKET Readers who want to use the most powerful features of Java to program data structures Effective Java Joshua Bloch,2008-05-08 Are you looking for a deeper understanding of the JavaTM programming language so that you can write code that is clearer more correct more robust and more reusable Look no further Effective JavaTM Second Edition

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ties together related topics Instructor Resources Answers to the exercises in the text Glossary of terms PowerPoint Lecture Outlines Test bank   Java Concepts Cay S. Horstmann,2017-05-01 Java for Everyone 3rd Edition offers comprehensive topical coverage with varied examples and problems application of visual component of fluid mechanics and strong focus on effective learning The text enables the gradual development of confidence in problem solving Each important concept is introduced in easy to understand terms before more complicated examples are discussed This text is an unbound three hole punched version

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