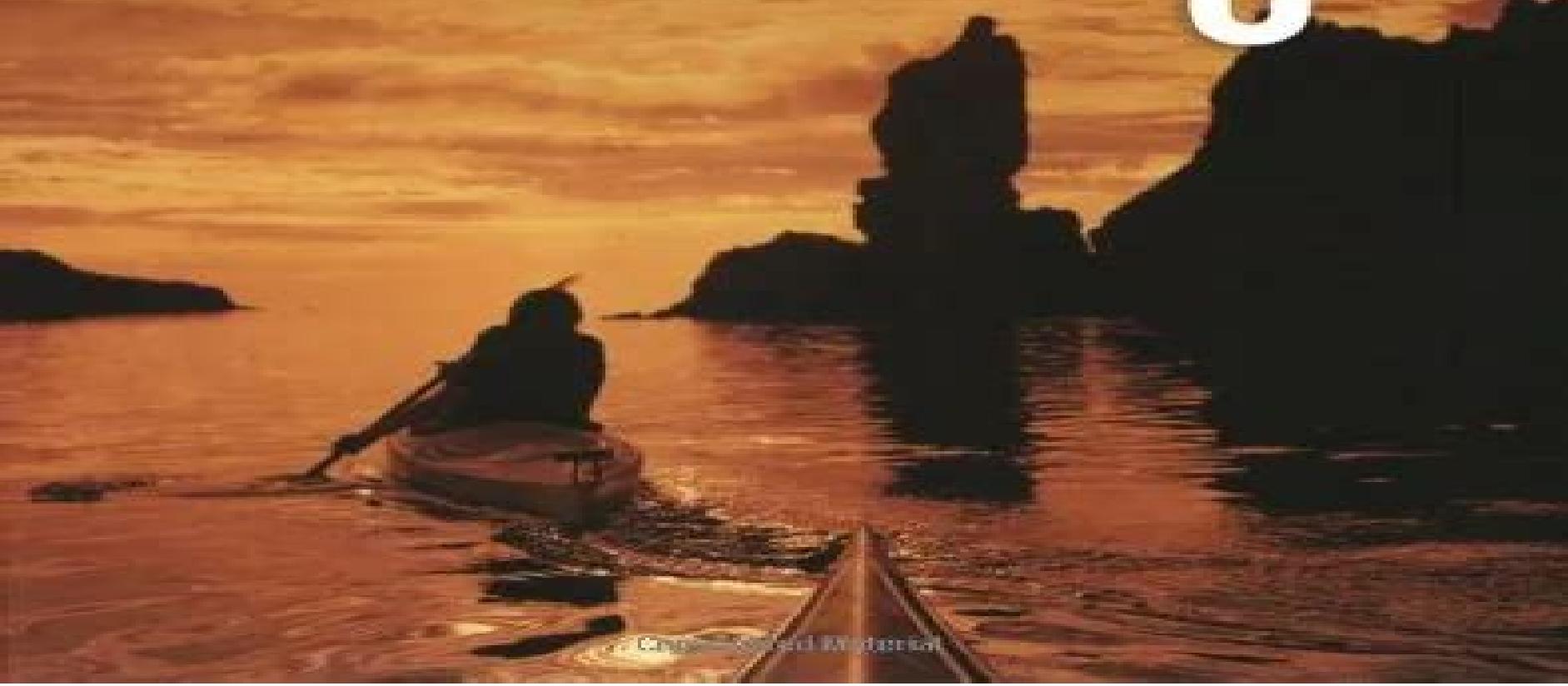ELLIOT B. KOFFMAN | PAUL A.T. WOLFGANG

OBJECTS, ABSTRACTION,
DATA STRUCTURES
AND DESIGN USING C++

Objects Abstraction Data Structures And Design

Elliot Koffman

Objects Abstraction Data Structures And Design:

Objects, Abstraction, Data Structures and Design Elliot B. Koffman,Paul A. T. Wolfgang,2005-10-20 Koffman and Wolfgang introduce data structures in the context of C programming They embed the design and implementation of data structures into the practice of sound software design principles that are introduced early and reinforced by 20 case studies Data structures are introduced in the C STL format whenever possible Each new data structure is introduced by describing its interface in the STL Next one or two simpler applications are discussed then the data structure is implemented following the interface previously introduced Finally additional advanced applications are covered in the case studies and the cases use the STL In the implementation of each data structure the authors encourage students to perform a thorough analysis of the design approach and expected performance before actually undertaking detailed design and implementation Students 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 Case studies follow a five step process problem specification analysis design implementation and testing that has been adapted to object oriented programming Students are encouraged to think critically about the five step process and use it in their problem solutions Several problems have extensive discussions of testing and include methods that automate the testing process Some cases are revisited in later chapters and new solutions are provided that use different data structures The text assumes a first course in programming and is designed for Data Structures or the second course in programming especially those courses that include coverage of OO design and algorithms A C primer is provided for students who have taken a course in another programming language or for those who need a review in C Finally more advanced coverage of C is found in an appendix Course Hierarchy Course is the second course in the CS curriculum Required of CS majors Course names include Data Structures and Data Structures Algorithms

Objects, Abstraction, Data Structures and Design Using Java Version 5.0 Elliot B. Koffman,Paul A. T. Wolfgang,2005 This version of the book uses the latest Java technology Java 2 Standard Edition Version 5 0 J2SE V 5 0 or otherwise known as Version 5 0 This revolutionary book intertwines problem solving and software engineering with the study of traditional data structures topics The book emphasizes the use of objects and object oriented design Early chapters provide background coverage of software engineering Then in the chapters on data structures these principles are applied The authors encourage use of a five step process for the solution of case studies problem specification analysis design implementation and testing As is done in industry these steps are sometimes performed in an iterative fashion rather than in strict sequence The Java Application Programming Interface API is used throughout the text Wherever possible the specification and interface for a data structure follow the Java Collections Framework Emphasizes the use of objects and object oriented design Provides a primer on the Java language and offers background coverage of software engineering Encourages an iterative five step process for the solution of case studies problem specification analysis design

implementation and testing The Java Application Programming Interface API is used throughout   **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   **Objects, Abstraction, Data Structures and Design Using C++** Elliot B. Koffman,Paul A. T. Wolfgang,2006-07   Objects, Abstraction, Data Structures and Design Elliot Koffman,2005-09   **Objects, Abstraction, Data Structures and Design** Elliot B. Koffman,Paul A. T. Wolfgang,2006-07-01   Objects, Abstraction, Data Structures and Design Elliot B. Koffman,2008-02   Data Structures Elliot B Koffman,2021 Our goal in writing this book was to combine a strong emphasis on problem solving program analysis design and testing with the study of data structures To this end we discuss applications of each data structure to motivate its study After providing the specification interface and the implementation a Java class we then cover case studies that use the data structure to solve a significant problem Examples include maintaining an ordered list evaluating arithmetic expressions using a stack managing a list of cell phone contacts finding the shortest path through a maze finding the shortest route to a destination and Huffman coding using a binary tree and a priority queue In the implementation of each data structure and in the solutions of the case studies we reinforce the message Think then code by performing a thorough analysis of the problem and then carefully designing a solution using pseudocode and UML class diagrams before the implementation We also provide a performance analysis when appropriate and provide examples of how to test the code developed in the text Readers 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   Objects, Abstraction, Data Structures and Design Elliot B. Koffman,Paul A. T. Wolfgang,2006-08-28   **Objects, Abstraction, Data Structures and Design** Elliot Koffman,2005-05-01   *Objects Abstraction Data Structures and Design Using Java with Egrade Plus Stand Alone 2 Term Set* Elliot Koffman,2005-08-01   **Objects Abstraction Data Structures and Design 1E with EGrade Plus 1 Term Set** Elliot Koffman,2005-12   *Objects, Abstraction, Data Structures and Design* Elliot B. Koffman,Paul A. T. Wolfgang,2006-07-01   **Objects Abstraction Data Structures and Design Using Java with Egrade Plus Stand Alone 1 Term Set** Elliot Koffman,2004-12 This revolutionary book intertwines problem solving and software engineering with the study of traditional data structures topics Emphasizes the use of objects and object oriented design Provides a primer on the Java language and offers background coverage of software engineering Encourages an iterative five step process for the solution of case studies problem specification analysis design implementation and testing The Java Application Programming Interface API is used throughout   *Understanding Program Design and Data Structures with*

C++ Kenneth Alfred Lambert,Thomas L. Naps,1996 This text provides coverage of object oriented programming while introducing advanced programming and software engineering concepts and techniques along with basic data structures Problem solving is emphasized throughout the text through numerous exercises programming problems and projects It also includes module specifications structure charts Note of Interest boxes Focus on Program Design boxes and running debugging and testing tips This book corresponds to chapters 11 19 of Lambert Nance and Nap s Introduction to Computer Science with C *Objects, Abstraction, Data Structures and Design* Elliot B. Koffman,Paul A. T. Wolfgang,2006-07-01 *Objects Abstraction Data Structures and Design 1st Edition with EGrade Plus 1 Term and Student Access Card for WebCT Set* Elliot Koffman,2005-12 **Developing Object Oriented Data Structures Using C++** Alistair McMonnies,W. Stewart McSporran,1995 **EGrade Plus Stand-alone Access for Objects Abstraction Data Structures and Design** Elliot Koffman,2005-07-01 **Data Structures, Algorithms, and Object-oriented Programming** Gregory L. Heileman,1996

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