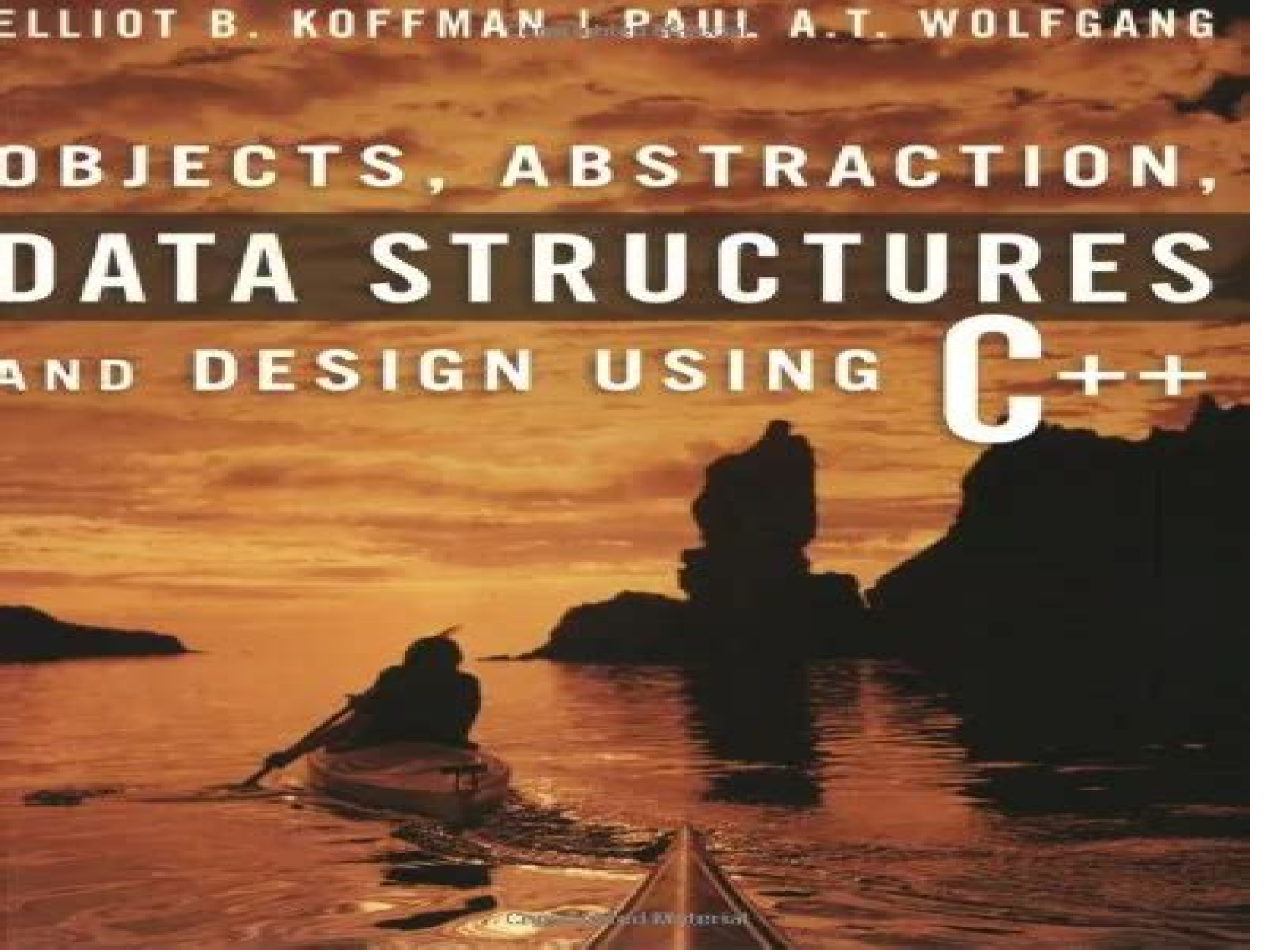
ELLIOT B. KOFFMAN | PAUL A.T. WOLFGANG

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



Objects Abstraction Data Structures And Design Using C

Elliot B. Koffman

Objects Abstraction Data Structures And Design Using C :

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 Using C++* Elliot B. Koffman,Paul A. T. Wolfgang,2006-07 **Objects, Abstraction, Data Structures and Design** Elliot B. Koffman,Paul A. T. Wolfgang,2006-07-01 **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 Elliot Koffman,2005-09 **Objects, Abstraction, Data Structures and Design** Elliot B. Koffman,Paul A. T. Wolfgang,2006-08-28 *Developing Object Oriented Data Structures Using C++* Alistair McMonnies,W. Stewart McSporran,1995 **Objects, Abstraction, Data Structures and Design** Elliot Koffman,2005-05-01 *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

Encyclopedia of Computer Science and Technology Harry Henderson,2009 Presents an illustrated A Z encyclopedia containing approximately 600 entries on computer and technology related topics Problem Solving, Abstraction, and Design Using C++ Frank L. Friedman,Elliot B. Koffman,1994 Using C this book presents introductory programming material Only the features of C that are appropriate to introductory concepts are introduced Object oriented concepts are presented Abstraction is stressed throughout the book and pointers are presented in a gradual and gentle fashion for easier learning

Data Structures & Other Objects Using C++ Michael Main,Walter J. Savitch,2001 Surprised by Hope helps you to grasp the full breathtaking hope Jesus offers the world and its implications for how you live This ISO video download of Session 1 Hope for the World teaches that God wants his people to experience hope for today and share it with the world

Objects, Abstraction, Data Structures and Design Elliot B. Koffman,Paul A. T. Wolfgang,2006-07-01 Data Structures and Abstraction Using C Geoff Whale,1996 *Data Abstraction and Structures Using C++* Mark R. Headington,David D. Riley,1997 A text designed specifically for a second course in computer science fundamentals that uses C as the expository language After a review and expansion of introductory computer science concepts treatment progresses to data abstraction and structure recursion design of abstract data types object **Objects, Abstraction, Data Structures and Design** Elliot B. Koffman,2008-02 *Object-oriented Design and Programming with C++* Ronald J. Leach,1995 Object

Oriented Design and Programming with C **Data Structures in C++ Including Breadth and Laboratories** Angela B. Shiflet,1995-09 Data Structures in C Including Breadth and Laboratories integrates laboratory exercises problem solving skills and breadth sections covering non programming aspects of computer science into the study of data structures An appendix on non object oriented features of C helps students froma C background get up to speed and Chapter 4 presents the aspects of OOP in C that students need in studying data structures Other aids to learning include Programming Projects over 1 000 exercises and numerous figures Laboratory programs and data files data structure implementations and program examples from the text are available via the World Wide Web **Software Development 92 - Technical Track** ,1992

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