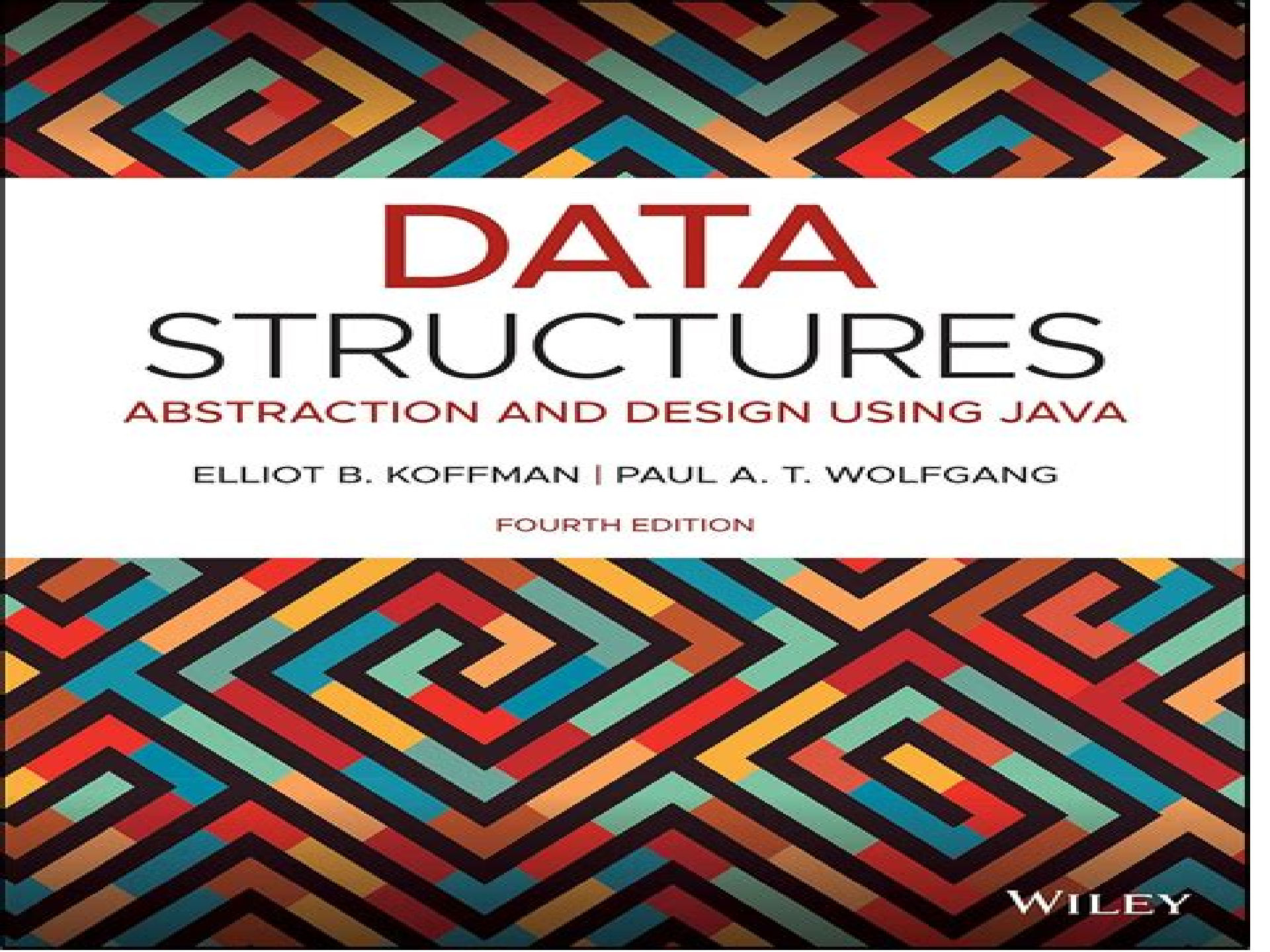




DATA STRUCTURES

ABSTRACTION AND DESIGN USING JAVA

ELLIOT B. KOFFMAN | PAUL A. T. WOLFGANG

FOURTH EDITION

WILEY

Data Structures Abstraction Design Using

Elliot Koffman



Data Structures Abstraction Design Using:

Data Structures Elliot B. Koffman, Paul A. T. Wolfgang, 2010-01-26 This book lays the foundation for programmers to build their skills. The focus is placed on how to implement effective programs using the JCL instead of producing mathematical proofs. The coverage is updated and streamlined to provide a more accessible approach to programming. They'll be able to develop a thorough understanding of basic data structures and algorithms through an objects first approach. Data structures are discussed in the context of software engineering principles. Updated case studies also show programmers how to apply essential design skills and concepts. 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. **Data Structures** Elliot B. Koffman, Paul A. T. Wolfgang, 2015-12 TRY FREE for 14 days OR RENT this title www.wileystudentchoice.com Data Structures Abstraction and Design Using Java 3rd Edition combines a strong emphasis on problem solving and software design with the study of data structures. The authors discuss applications of each data structure to motivate its study. After providing the specification interface and the implementation a Java class case studies that use the data structure to solve a significant problem are introduced. **Data Structures** Koffman, 2013-01-31 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 **Object-oriented Data Structures Using Java** Nell B. Dale, Daniel T. Joyce, Chip Weems, 2006

Data Structures: Theory of Computation *Objects, Abstraction, Data Structures and Design* Elliot B. Koffman, Paul A. T. Wolfgang, 2006-07-01 **Data Structures** Elliot B. Koffman, Paul A. T. Wolfgang, 2016 *Data Structures in Depth Using C++* Mahmoud Mahdi, 2025-03-06

Understand and implement data structures and bridge the gap between theory and application. This book covers a wide range of data structures from basic arrays and linked lists to advanced trees and graphs, providing readers with in-depth insights into their implementation and optimization in C. You'll explore crucial topics to optimize performance and enhance their careers in software development. In today's environment of growing complexity and problem scale, a profound grasp of C data structures, including efficient data handling and storage, is more relevant than ever. This book introduces fundamental principles of data structures and design, progressing to essential concepts for high-performance applications. Finally, you'll explore the application of data structures in real-world scenarios, including case studies and use in machine learning and big data. This practical, step-by-step approach, featuring numerous code examples, performance analysis, and best practices, is written with a wide range of C programmers in mind. So if you're looking to solve complex data structure problems using C, this book is your complete guide.

What You Will Learn

- Write robust and efficient C code.
- Apply data structures in real-world scenarios.
- Transition from basic to advanced data structures.
- Understand best practices and performance analysis.
- Design a flexible and efficient data structure library.

Who This Book is For

Software developers and engineers seeking to deepen their knowledge of data structures and enhance coding efficiency, and ideal for those with a foundational understanding of C syntax. Secondary audiences include entry-level programmers seeking a deeper dive into data structures, enhancing their skills and preparing them for more advanced programming tasks. Finally, computer science students or programmers aiming to transition to C may find value in this book.

Object-Oriented Analysis and Design using UML Mr. Rohit Manglik, 2024-03-24

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