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Key Features of this book include:

- Comprehensive coverage of fundamental topics, including:
 - Lists, sets, stacks and queues
 - Array-based structures
 - Binary, tries, and ternary search trees
 - Internal and external sorting
 - Graphs and maps
 - Indexed files and grid file organization
 - Big-O analysis and recursion
 - Algorithm analysis
- Clear, concise, and efficient implementation of algorithms and data types in C++ rather than pseudocode. For ease of learning, large-scale algorithms are implemented in pseudo-C++.
- Numerous worked examples corresponding to the implementations, including complete source code for each, available for download at the book's web site.
- Brief introduction to database systems as large-scale file structures.
- End-of-chapter exercises include programming problems and design and analysis questions .



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Applied Data Structures with C++

Applied Data Structures
with



Peter Smith

Designed for use in either a one- or two-semester advanced data structures course, **Applied Data Structures with C++** covers all of the fundamental structures and data types, and features implementations presented in C++. Using clear explanations and efficient examples, the book presents a comprehensive overview of main memory and file-based structures, with an emphasis on files and persistent structures. Additional coverage of object-oriented design, persistence, recursion, and databases as large-scale file structures supplements the standard approach to fundamental topics. Material can be adapted flexibly according to the focus or length of the course, with suggestions for use in one- and two-semester formats from the author.



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