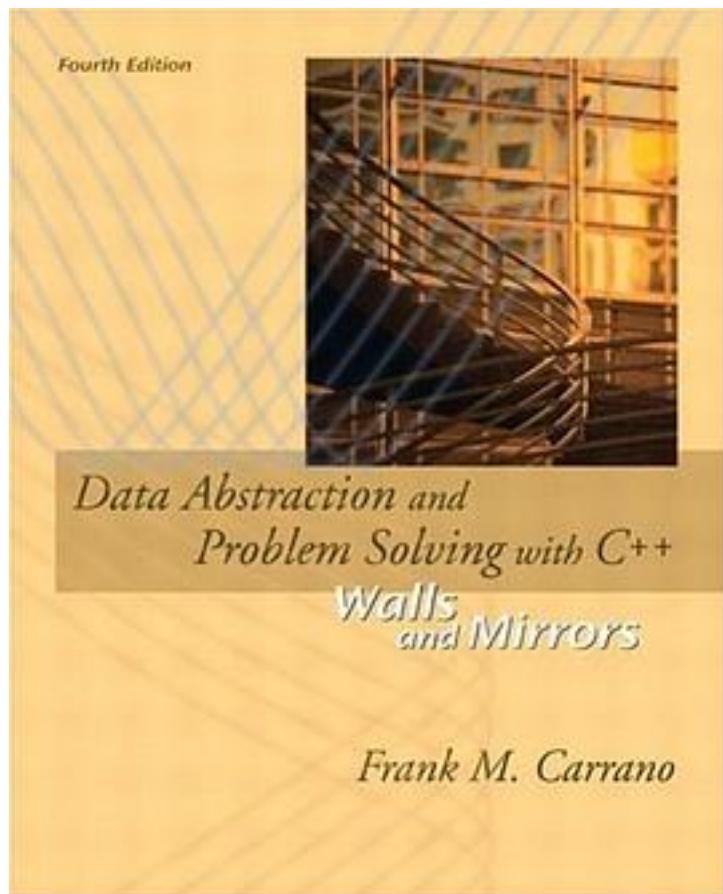


# Data Abstraction and Problem Solving with C++



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出版者:Addison Wesley

出版时间:2001-8-9

装帧:Hardcover

isbn:9780201741193

Book Description Focusing on data abstraction and data structures, the second edition of this very successful book continues to emphasize the needs of both the instructor and the student. The book illustrates the role of classes and abstract data types (ADTs) in the problem-solving process as the foundation for an object-oriented

approach. Throughout the text, the distinction between specification and implementation is continually stressed. The text covers major applications of ADTs, such as searching a flight map and performing an event-driven simulation. It also offers early, extensive coverage of recursion and uses this technique in many examples and exercises. Overall, the lucid writing style, widespread use of examples, and flexible coverage of the material have helped make this a leading book in the field. New in this Edition: Uses recent enhancements to C++, such as data type `bool` and C++ strings States ADT operations in English, specifies them in pseudocode, and finally implements them in C++. Students can see more clearly the progression from an informal statement of an operation to a more formal specification. Offers new and revised examples of ADTs that clarify their relationships to classes as well as new coverage of dynamically allocated arrays and circuits Provides more balance between numeric and nonnumeric examples of recursion Contains many new exercises and programming problems --This text refers to an out of print or unavailable edition of this title. Book Info Illustrates the role of classes and abstract data types (ADTs) in the problem-solving process as the foundation for an object-oriented approach. Covers the major applications of ADTs, such as searching a flight map and performing an eventdriven simulation. --This text refers to an out of print or unavailable edition of this title. See all Editorial Reviews

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