

# Data Structures and Software Development in an Object Oriented Domain



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For CS2/CS7 Data Structures courses. Also appropriate for first- and second-year Object Oriented Design courses where instructors also want to re-enforce data structures from an object-oriented perspective. Using a unique parallel-coverage approach, this text 1) presents the fundamentals of data structures from arrays and lists to balanced trees, graphs, and files (including their design, use, implementation, and analysis); and 2) gives an introduction to object-oriented software engineering using UML (including the context diagram, use cases, sequence diagrams, architectural

and detailed design, implementation, and testing). It can be used (a) to mostly present data structures with little software engineering, (b) to present both topics in parallel, or (c) to review data structures from an object-oriented perspective and then concentrate on software engineering at the first or second year level. The text uses Eiffel as the implementation language, an object-oriented language particularly well-suited to the clean presentation of data structures and software engineering concepts. Two case studies are included to illustrate the steps followed in an object-oriented development process for the analysis and design of non-trivial systems.

作者介绍:

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