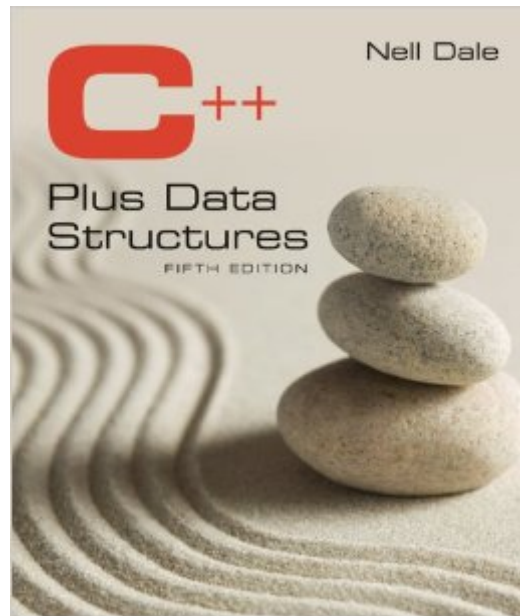


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# C++ Plus Data Structures



## Synopsis

Written by renowned author and educator Nell Dale, C++ Plus Data Structures, Fifth Edition explores the specifications, applications, and implementations of abstract data types with unmatched accessibility. Updated with new case studies and exercises throughout, this edition provides intuitive explanations that clarify abstract concepts, and approaches the study of data structures with emphasis on computer science theory and software engineering principles. Topics such as modularization, data encapsulation, information hiding, object-oriented decomposition, algorithm analysis, life-cycle software verification models, and data abstraction are carefully presented to foster solid software engineering techniques. In addition to real-world exercises and case studies that define Nell Dale's teaching philosophy, this Fifth Edition provides an increased emphasis on object-oriented design and an early introduction of object-oriented concepts.

**Key features:**

- Object-oriented terminology now dominates computing vocabulary. Dale was careful to update all ADT names to reflect this terminology.
- Additional exercises have been added to most chapters.
- The Fifth Edition features the trademark Dale pedagogy and highlights numerous real-world, updated case studies. Each broad case study includes a description of the problem, an analysis of the problem's input and required output, and a discussion of the appropriate data types to use.
- Each chapter contains an average of 40 engaging exercises that span varying levels of difficulty. These exercises test students' understanding of key concepts through various means, including programming problems and analysis of algorithm problems.
- Downloadable instructor resources include PowerPoint® lecture presentations, answers to end of chapter questions, a test bank, and an instructor's manual containing goals, teaching notes, suggested in-class activities, and programming assignments for each chapter.
- Students and instructors can also access program source code to work out all the examples and exercises from the text.

## Book Information

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## Customer Reviews

This book has a lot of typos and in a programming textbook, that's not a good thing. Even on the website, their downloadable code is error prone. More attention should be paid by the editors of programming textbooks than was done here.

I used this book for a textbook in my data structure class. I have never seen worst data structure book than this. A lot of errors, lack of exercises, instructor materials simply wrong ( test bank contains too many wrong answers, etc.. ) This book ruined my class this semester. I had to refer students to Internet instead of the book to study the material. I will never use this book again, nor I will ever recommend it to my students and colleagues.

I am using this text book for a guided study class I am taking. It is very clear and accessible. I have found the examples clear, easy to follow and instructive. The case studies are fun as well as informative. I enjoy the approach the text book takes of walking your through fleshed out ADTs and then challenging you to manipulate them. At the end of each chapter I not only feel like I can code the ADTs but I also have a solid understanding of their applications.

I've read a lot of programming books (Python, x86 Assembly, C#, Java and C++) and this one would be placed in the middle of the list. It's not the best, but it's not the worst. This is a text book and such I believe it should explain things in orderly fashion. The author has a tendency of jumping around, causing you to flip between pages back and forth. I don't think I'll keep this one.

If you are purchasing this for your class then you don't have any choice but if you just want to learn programming then I would reccomend you to purchase some other textbook. This textbook has lots of words and very less coding examples.

I needed this for a class on data structures but it worked out that a friend borrowed it to review

before some interviews we both found it informative yet approachable.

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