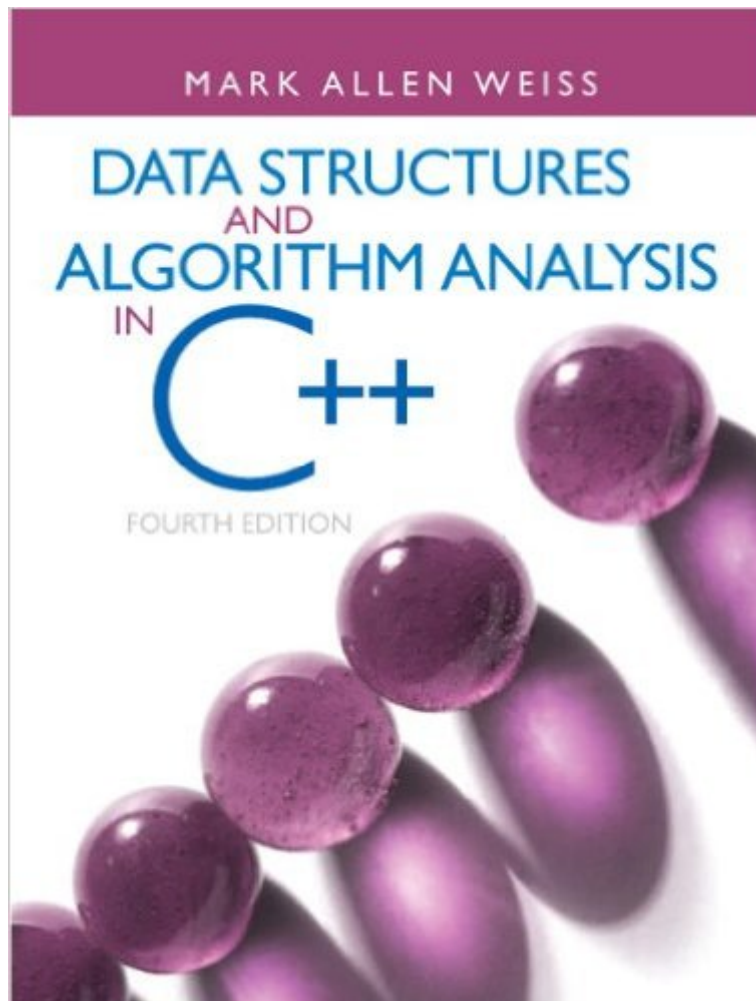


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# Data Structures & Algorithm Analysis In C++



## Synopsis

Data Structures and Algorithm Analysis in C++ is an advanced algorithms book that bridges the gap between traditional CS2 and Algorithms Analysis courses. As the speed and power of computers increases, so does the need for effective programming and algorithm analysis. By approaching these skills in tandem, Mark Allen Weiss teaches readers to develop well-constructed, maximally efficient programs using the C++ programming language. This book explains topics from binary heaps to sorting to NP-completeness, and dedicates a full chapter to amortized analysis and advanced data structures and their implementation. Figures and examples illustrating successive stages of algorithms contribute to Weiss's careful, rigorous and in-depth analysis of each type of algorithm.

## Book Information

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## Customer Reviews

My first review. I just had to defend this awesome book. Other reviews came from people who should study art history and work as analysts, actuaries, or web developers (the new car salesmen) instead of doing coding in high performance languages. If you wanna ride a 200+hp sport bike, learn how to drag knees instead of complaining about a stiff suspension. This book is not to teach you C++ but to teach you algorithms. You need to be fluent in C++. At least look at STL and Boost programming techniques. Reading this book is like learning from an old master who skips obvious details but says the important stuff and guides you quickly. Now if you are the right person, this book makes you feel awesome. Why? Because it's the only book, where you can learn algorithms and data structures

while learning all the nice C++11 details that you can live without. there are great books on algorithms (like the free vazirani's algorithms or elements of programming) and there are decent books about c++ (bjarne's pp). it's also pretty cool to see c++11 in the wild -- just going through the code is fun. so yeah, this book makes learning algo and ds for c++ really quick -- you can just code the examples. this book has basic and advance topics, has code and some comments. with help of wikipedia and stack overflow, you can fill in the details. what else do you need? it was the best way i found to learn how to write an stl-like container (book's List chapter for example). If not all the bad vibe from the wussies, i'd give the book 4 stars but i need to shift the average rating a bit, so I give it 5. the biggest downside is there are NO public SOLUTIONS !!!! the author should've given solution to at least some problems. There is no way i'd take 4 month course on this stuff; it can be learned in 3-4 weeks. (you can find leaked solutions for the 3rd edition though)

This book is designed for an introduction to data structures and algorithm analysis but nothing more. The college that I attend uses only the basic containers (vectors and dynamic arrays) but requires the student to hard code linked lists and the more advanced data structures. This approach to programming, I believe, works best for most students (albeit a bit time consuming). As for understanding the algorithm analysis, most colleges require a more rigorous course to truly understand the changes to an algorithm's running time. You're not a "wussie" if you find the book difficult to read (as previously mentioned by other reviewers) but you must read the book, take the best information that holistically fills your knowledge gap, and ignore the rest that doesn't make sense. Quite often, your professor can help fill in the gap. By the way, I'm not a genius (I have a hard earned 3.4 GPA). And like most things in life, the book has some high and low points.

Great book for DS beginners  
Has lots of code to use for examples. No complaints  
Just like any book their can be some confusing things but they explain well

excellent book! It explains in detail most of data structures that are included on it. I recommend it for beginners that want to introduce themselves into algorithms.

Great book, easy read. Too bad the professor has not read the book and reading it was actually harming test scores.

This is definitely a computer math book. It's not good for explaining data structures for real world

applications but it's very good at explaining various number techniques. I do wish that the examples were more complete though.

Book teaches data structures fine.

Required book for cs.

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