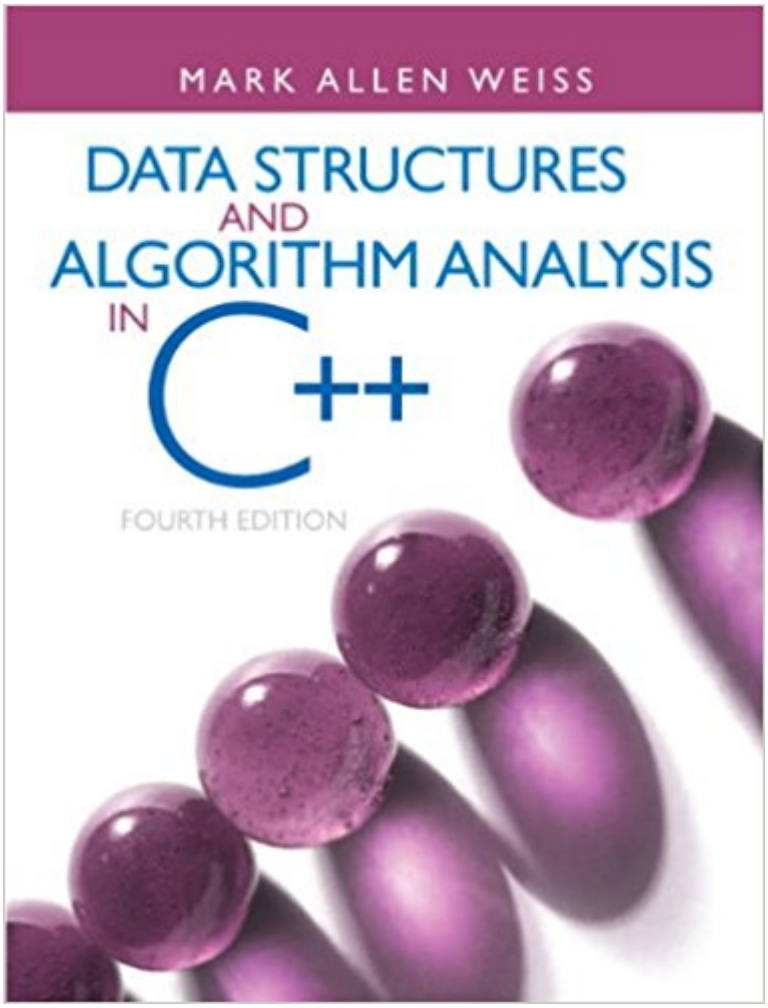
Data Structures & Algorithm Analysis In C++



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 WeissÃ¢â ¬â„¢ careful, rigorous and in-depth analysis of each type of algorithm.

Book Information

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Customer Reviews

Mark Allen Weiss is Professor and Associate Director for the School of Computing and Information Sciences at Florida International University. He is also currently serving as both Director of Undergraduate Studies and Director of Graduate Studies. He received his BachelorÃ¢â ¬â„¢s Degree in Electrical Engineering from the Cooper Union in 1983, and his Ph.D. in Computer Science from Princeton University in 1987, working under Bob Sedgewick. He has been at FIU since 1987 and was promoted to Professor in 1996. His interests include data structures, algorithms, and education. He is most well-known for his highly-acclaimed Data Structures textbooks, which have been used for a generation by roughly a million students. Professor Weiss is

the author of numerous publications in top-rated journals and was recipient of the UniversityÃ¢â ¬â„¢s Excellence in Research Award in 1994. In 1996 at FIU he was the first in the world to teach Data Structures using the Java programming language, which is now the de facto standard. From 1997-2004 he served as a member of the Advanced Placement Computer Science Development Committee, chairing the committee from 2000-2004. The committee designed the curriculum and wrote the AP exams that were taken by 20,000 high school students annually. In addition to his Research Award in 1994, Professor Weiss is also the recipient of the UniversityÃ¢â ¬â„¢s Excellence in Teaching Award in 1999 and the School of Computing and Information Science Excellence in Teaching Award (2005) and Excellence in Service Award (2007).

Written to illustrate and explain concepts, though there isn't enough C++ code and when there is, it can be difficult to follow.

Not worth the extravigant cost compared to the quality of content. If you dont have to have this for class, dont't buy it.

I did not particularly care for the writing style or layout of this book. The topics jumped around a lot and the explanations of various concepts were kind of vague.

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

Served it's purpose!

Picked up the book for a preview to next semester's class. What I have seen so far is a decent introduction.

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.

Good book

Analytics: Data Science, Data Analysis and Predictive Analytics for Business (Algorithms, Business

Intelligence, Statistical Analysis, Decision Analysis, Business Analytics, Data Mining, Big Data) Data Analytics: What Every Business Must Know About Big Data And Data Science (Data Analytics for Business, Predictive Analysis, Big Data Book 1) Data Analytics: Applicable Data Analysis to Advance Any Business Using the Power of Data Driven Analytics (Big Data Analytics, Data Science, Business Intelligence Book 6) Data Structures and Algorithm Analysis in Java (3rd Edition) Data Structures & Algorithm Analysis in C++ Data Structures and Algorithm Analysis in C++ (3rd Edition) Data Structures and Algorithm Analysis in C (2nd Edition) Data Structures and Algorithm Analysis in Java (2nd Edition) Analytics: Business Intelligence, Algorithms and Statistical Analysis (Predictive Analytics, Data Visualization, Data Analytics, Business Analytics, Decision Analysis, Big Data, Statistical Analysis) Big Data For Business: Your Comprehensive Guide to Understand Data Science, Data Analytics and Data Mining to Boost More Growth and Improve Business - Data Analytics Book, Series 2 Data Analytics For Beginners: Your Ultimate Guide To Learn and Master Data Analysis. Get Your Business Intelligence Right Ã¢â ¬â œ Accelerate Growth and Close More Sales (Data Analytics Book Series) Starting Out with Java: From Control Structures through Data Structures (3rd Edition) Java Software Structures: Designing and Using Data Structures (4th Edition) Data Structures and Algorithms Made Easy in Java: Data Structure and Algorithmic Puzzles Algorithm Design: Foundations, Analysis, and Internet Examples Design and Analysis of Composite Structures: With Applications to Aerospace Structures Data Science for Business: What You Need to Know about Data Mining and Data-Analytic Thinking Data Science and Big Data Analytics: Discovering, Analyzing, Visualizing and Presenting Data Data Analytics and Python Programming: 2 Bundle Manuscript: Beginners Guide to Learn Data Analytics, Predictive Analytics and Data Science with Python Programming Discovering Knowledge in Data: An Introduction to Data Mining (Wiley Series on Methods and Applications in Data Mining)