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Data Structures And Algorithm Analysis In Java, Third Edition (Dover Books On Computer Science)



Synopsis

With its focus on creating efficient data structures and algorithms, this comprehensive text helps readers understand how to select or design the tools that will best solve specific problems. It uses Java as the programming language and is suitable for second-year data structure courses and computer science courses in algorithm analysis. Techniques for representing data are presented within the context of assessing costs and benefits, promoting an understanding of the principles of algorithm analysis and the effects of a chosen physical medium. The text also explores tradeoff issues, familiarizes readers with the most commonly used data structures and their algorithms, and discusses matching appropriate data structures to applications. The author offers explicit coverage of design patterns encountered in the course of programming the book's basic data structures and algorithms. Numerous examples appear throughout the text.

Book Information

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Customer Reviews

I bought this book for an intro data structures & algorithms class as a substitute to the recommended textbook (which was about \$60). It's thick but not dense - it covered the entire class in about half its pages in an easy-to-understand form. Definitely targeted toward beginning CS students, but without "dumbing down" the material. Includes example implementations in java with explanations. Besides the basic data structures (arrays, trees, linked lists, hashes, etc) there's a small math section that goes over mathematical induction and some proofs. This book is also

responsible for giving the best advice about recursion I've heard - take it on faith.

Definitely a solid book with strong Java code examples. An excellent and easy read with tons of relevant questions and examples. I came from a C++ background, so I definitely bought this book to begin my Java learning.

You can get this book in pdf form free if you Google the author's name and the title, then look around on the webpage for his book. The C++ version is there as well. I got tired of finding errors. There is a list of errata at the book's website, and I kept finding things that weren't listed there. For instance, an interface being called an abstract class, words being out of order in sentences, and so forth. The author seems to be more familiar with C/C++ than with Java. I expect computer books to be correct. I expect authors and publishers to QA their work and get it right before putting their work up for sale.

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