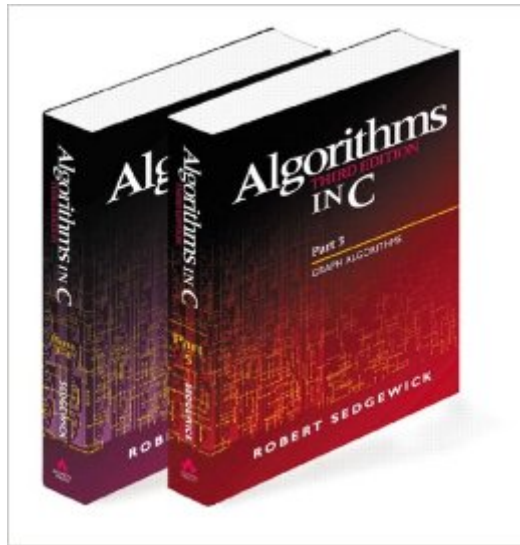


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Algorithms In C, Parts 1-5 (Bundle): Fundamentals, Data Structures, Sorting, Searching, And Graph Algorithms (3rd Edition)



Synopsis

This text aims to provide an introduction to graph algorithms and data structures and an understanding of the basic properties of a broad range of fundamental graph algorithms. It is suitable for anyone with some basic programming concepts. It covers graph properties and types, graph search, directed graphs, minimal spanning trees, shortest paths, and networks.

Book Information

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Customer Reviews

I have quite a few books on algorithms and C programming, and this probably takes the cake. Sedgewick writes clearer than perhaps anyone on the subject. The book is filled to the gills with tiny 20 line (complete) programs that do amazing things - such as the program to compute all the prime numbers less than N (provided as input). These examples are typically given to illustrate some point (such as using dynamic array allocation for storing which numbers are prime) - but the short, concise algorithms given in the examples are learning aids as well (i.e. - I didn't know you could calculate a list of primes so easily, and I can probably take this knowledge and use it somewhere else). The reader is challenged to alter the examples (instead of using an array to store which numbers are prime, use a bitmap). Because the examples are small, compact, and easy to read, this provokes one to actually sit down and try and play with them. In contrast, I also have the Algorithms In C O'Reilley book by Kyle Loudon and after reading the Sedgewick title, I'm throwing that away. That book spends 1/3 of the chapter describing the algorithms, and then spends the rest of it in user-interface code examples. Of course, all the user interfaces for all the examples in the

book are pretty much the same, so the whole book is filled with redundant useless code. More analysis, less filler, please. As Sedgewick was a student of Knuth, I consider his books as the practical guide to Knuth's tomes (which seem out of date - do we really need algorithm analysis on external storage these days??), which are filled with rigorous mathematical analysis. I highly recommend this book(s) -- actually there are two, with the second volume covering graphs.

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