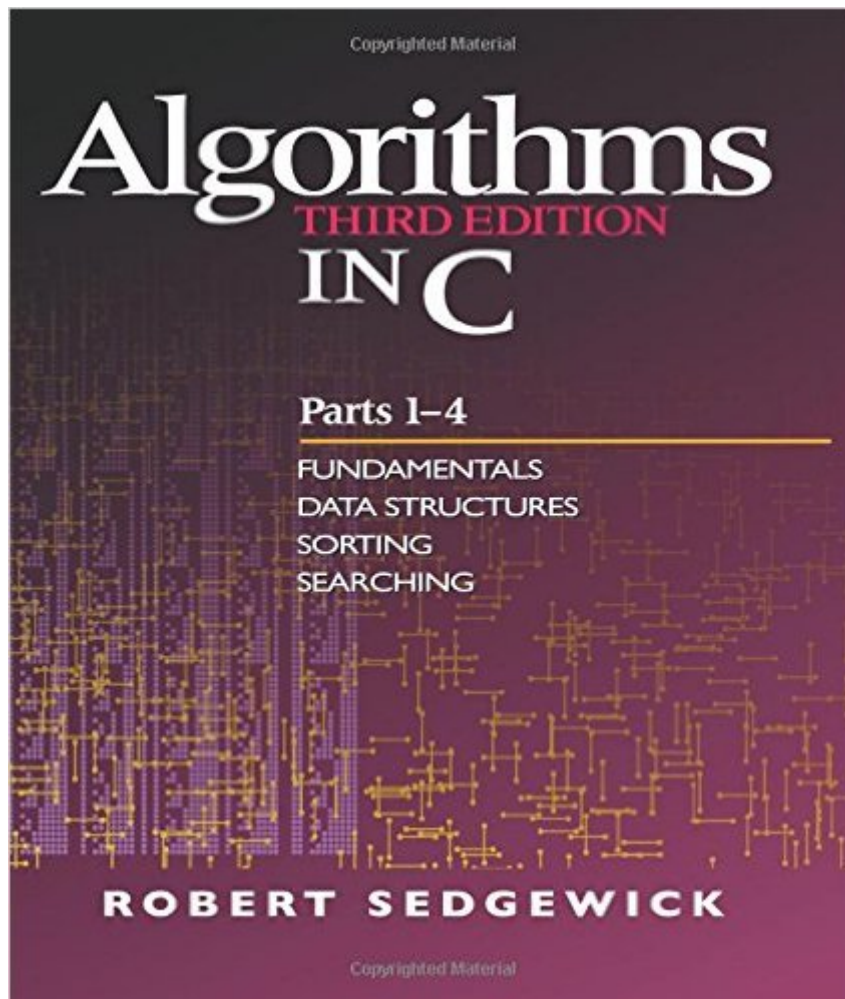


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Algorithms In C, Parts 1-4: Fundamentals, Data Structures, Sorting, Searching (3rd Edition) (Pts. 1-4)



Synopsis

"This is an eminently readable book which an ordinary programmer, unskilled in mathematical analysis and wary of theoretical algorithms, ought to be able to pick up and get a lot out of.." - Steve Summit, author of *C Programming FAQs* Sedgewick has a real gift for explaining concepts in a way that makes them easy to understand. The use of real programs in page-size (or less) chunks that can be easily understood is a real plus. The figures, programs, and tables are a significant contribution to the learning experience of the reader; they make this book distinctive. - William A. Ward, University of South Alabama

Robert Sedgewick has thoroughly rewritten and substantially expanded his popular work to provide current and comprehensive coverage of important algorithms and data structures. Many new algorithms are presented, and the explanations of each algorithm are much more detailed than in previous editions. A new text design and detailed, innovative figures, with accompanying commentary, greatly enhance the presentation. The third edition retains the successful blend of theory and practice that has made Sedgewick's work an invaluable resource for more than 250,000 programmers! This particular book, Parts 1-4, represents the essential first half of Sedgewick's complete work. It provides extensive coverage of fundamental data structures and algorithms for sorting, searching, and related applications. The algorithms and data structures are expressed in concise implementations in C, so that you can both appreciate their fundamental properties and test them on real applications. Of course, the substance of the book applies to programming in any language.

Highlights

- Expanded coverage of arrays, linked lists, strings, trees, and other basic data structures
- Greater emphasis on abstract data types (ADTs) than in previous editions
- Over 100 algorithms for sorting, selection, priority queue ADT implementations, and symbol table ADT (searching) implementations
- New implementations of binomial queues, multiway radix sorting, Batcher's sorting networks, randomized BSTs, splay trees, skip lists, multiway tries, and much more
- Increased quantitative information about the algorithms, including extensive empirical studies and basic analytic studies, giving you a basis for comparing them
- Over 1000 new exercises to help you learn the properties of algorithms

Whether you are a student learning the algorithms for the first time or a professional interested in having up-to-date reference material, you will find a wealth of useful information in this book.

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Customer Reviews

There are many books about algorithms, just a few can impress and influence people acting on the very threshold between theoretical research and development of complex software. Robert Sedgewick codes very carefully. Some readers might even fail to recognize the fine details in his code. Try to analyse even the simplest 2-3 liners. Compare the program 4.5 (Linked list implementation of a pushdown stack) or 4.10 (FIFO queue linked list implementation) to similar examples given by lesser authors, figure out the the percentage of redundant code given by others compared to this examples (it is 50% to 300% faster for this elementary cases!).Another example: Look at the insertion sort with a sentinel. I am not aware of any other book showing this simple improvement. Also none of the insertion sorts which I saw in the practice use this so tiny add-on sentinel to achieve the quite dramatic speedup of the process.Naturally, in the time of 700MHz processors here and there a couple of extra instructions might appear unimportant, but I disagree. This is a book showing the basic algorithmics and programming practices in their best, down to the "two liners", regardless what the complexity of the task is. These little "pearls" of coding are in the real world running countless times behind the scenes and are important. Look carefully, learn, master to code as he does!As a very modern text, this is one of the few books dealing at least with some of the newer algorithms, like the skip lists or sorting networks. Not enough, though. Maybe we will see more in the next volume. There are also some omissions of the basic algorithms, which I would expect to be in such a book. See the rather terse chapter 7.

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