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Essential Algorithms: A Practical Approach to Computer Algorithms (Paperback)

By Rod Stephens

John Wiley Sons Inc, United States, 2013. Paperback. Condition: New. Language: English . Brand New Book. A friendly and accessible introduction to the most useful algorithms Computer algorithms are the basic recipes for programming. Professional programmers need to know how to use algorithms to solve difficult programming problems. Written in simple, intuitive English, this book describes how and when to use the most practical classic algorithms, and even how to create new algorithms to meet future needs. The book also includes a collection of questions that can help readers prepare for a programming job interview. Reveals methods for manipulating common data structures such as arrays, linked lists, trees, and networksAddresses advanced data structures such as heaps, 2-3 trees, B-treesAddresses general problem-solving techniques such as branch and bound, divide and conquer, recursion, backtracking, heuristics, and moreReviews sorting and searching, network algorithms, and numerical algorithmsIncludes general problem-solving techniques such as brute force and exhaustive search, divide and conquer, backtracking, recursion, branch and bound, and more In addition, Essential Algorithms features a companion website that includes full instructor materials to support training or higher ed adoptions.



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