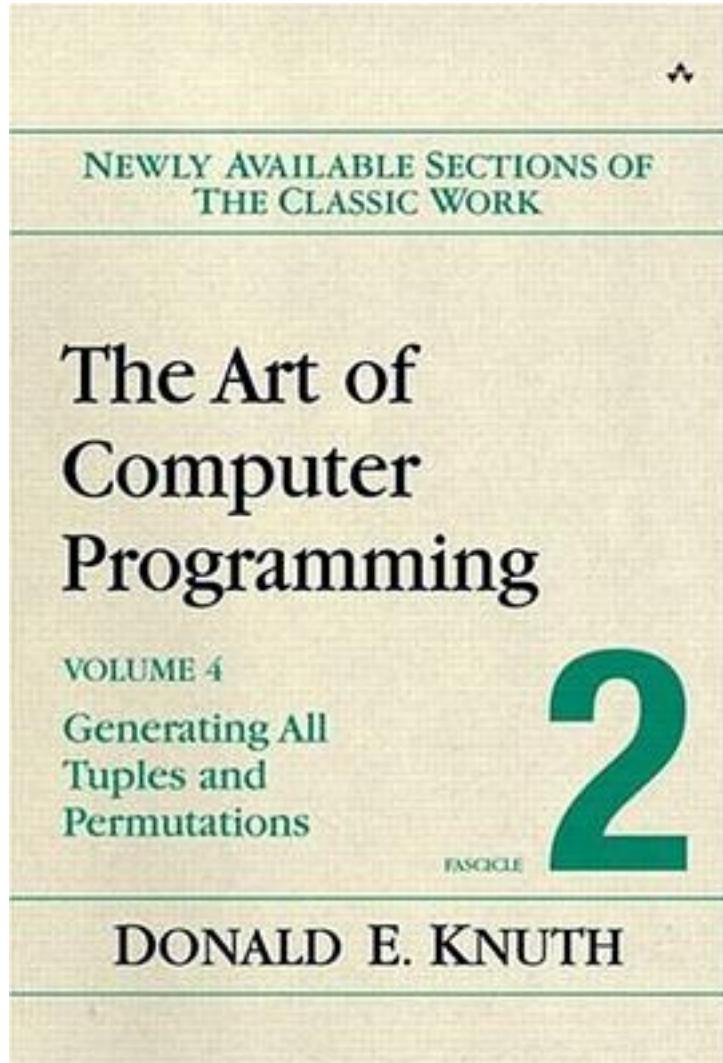


The Art of Computer Programming, Volume 4, Fascicle 2



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著者:[美] Donald Knuth

出版者:Addison-Wesley Professional

出版时间:2005

装帧:Paperback

isbn:9780201853933

From the Back Cover

This multivolume work on the analysis of algorithms has long been recognized as the definitive description of classical computer science. The three complete volumes published to date already comprise a unique and invaluable resource in programming theory and practice. Countless readers have spoken about the profound personal influence of Knuth's writings. Scientists have marveled at the beauty and elegance of his analysis, while practicing programmers have successfully applied his "cookbook" solutions to their day-to-day problems. All have admired Knuth for the breadth, clarity, accuracy, and good humor found in his books.

To begin the fourth and later volumes of the set, and to update parts of the existing three, Knuth has created a series of small books called fascicles, which will be published at regular intervals. Each fascicle will encompass a section or more of wholly new or revised material. Ultimately, the content of these fascicles will be rolled up into the comprehensive, final versions of each volume, and the enormous undertaking that began in 1962 will be complete.

Volume 4, Fascicle 2

This fascicle inaugurates the eagerly awaited publication of Knuth's *The Art of Computer Programming*, Volume 4: *Combinatorial Algorithms*. Part of what will be a long chapter on combinatorial searching, the fascicle begins his treatment of how to generate all possibilities. Specifically, it discusses the generation of all n -tuples, then extends those ideas to all permutations. Such algorithms provide a natural motivation by means of which many of the key ideas of combinatorial mathematics can be introduced and explored. In this and other fascicles of Volume 4, Knuth illuminates important theories by discussing related games and puzzles. Even serious programming can be fun.

作者介绍:

Donald E. Knuth is known throughout the world for his pioneering work on algorithms and programming techniques, for his invention of the Tex and Metafont systems for computer typesetting, and for his prolific and influential writing. Professor Emeritus of The Art of Computer Programming at Stanford University, he currently devotes full time to the completion of these fascicles and the seven volumes to which they belong.

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标签

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评论

I wish I can write as one-tenth clear as he does... one day...

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