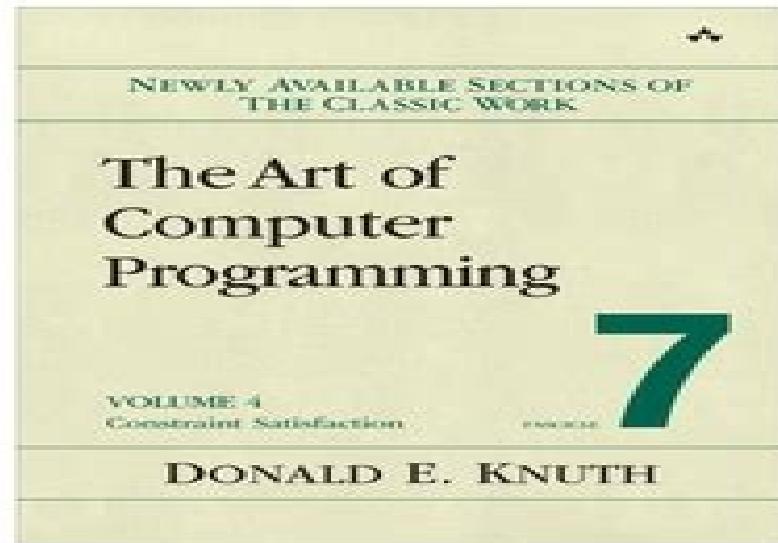


# **Art of Computer Programming, Volume 4, Fascicle 7, The: Constraint Satisfaction**

**Art of Computer Programming, Volume 4, Fascicle 7, The: Constraint Satisfaction**



The Art of Computer Programming is a multivolume work on the analysis of algorithms and has long been recognized as the definitive description of classical computer science. The five volumes published to date—Volumes 1, 2, 3, 4A, and 4B—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 continue the set, and to update parts of the existing volumes, Knuth has created a series of small books called fascicles, which are published at regular intervals. Each fascicle encompasses 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 7, which is brimming with lively examples, forms the first third of what will eventually become hardcover Volume 4C. It introduces and explores an important general framework for modeling and solving combinatorial problems, called the Constraint Satisfaction Problem (CSP). The concluding sections of Volume 4B contain expositions of two analogous frameworks, namely XCC ("exact covering with colors") and SAT ("Boolean satisfiability"); the XCC solvers and SAT solvers are now joined by CSP solvers, completing a powerful trio of techniques. Each member of the trio has its own strengths, while separately helping to understand the other two. This fascicle illuminates how the CSP framework is tied to dozens of other parts of computer science: Scene analysis (computer vision); efficient algorithms that embed one graph in another; fascinating instances of "graceful graphs"; new ways to look ahead when backtracking; new heuristics to guide a search that

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**RD Boyd**

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