



## Lucid-Boxes Vs; Black-Boxes (Classic Reprint) (Paperback)

By Uzi Vishkin

Forgotten Books, United States, 2016. Paperback. Condition: New. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*. Excerpt from Lucid-Boxes Vs; Black-Boxes Every existing algorithm represents some knowledge that has been acquired. It is the responsibility of theoreticians in the field to explore every Opportunity to utilize the knowledge accumulated so far for the future design of algorithms. Often it is easier to use existing efficient algorithms for another problem in related models Of computation rather than designing a completely new algorithm. For later in the introduction we need the following. It is well known that sequential execution of a computer program, say  $P$ , on some input  $I$  can be described similarly to a proof in mathematical logic. Associate 3 line with each step of this execution. A line that corresponds to step  $s$  1) includes the sequence  $V$  of all input and program (including output) variables and their contents at the beginning of the step. Next to it, specify the (atomic) instruction (with respect to a machine or a programming language) which is executed in step  $s$ . The sequence  $V$  at the beginning of step  $s+1$  is written in the next line which is associated with this...

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