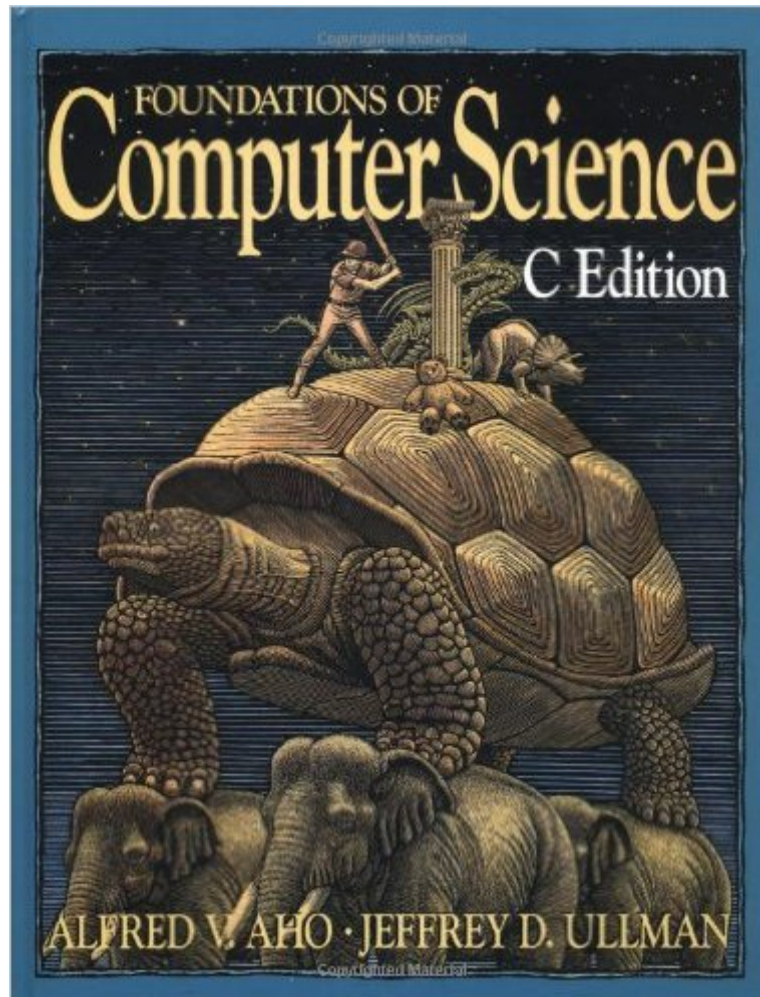


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# Foundations Of Computer Science: C Edition (Principles Of Computer Science Series)



## Synopsis

This text combines the theoretical foundations of computing with essential discrete mathematics. It follows the same organization as its predecessor, Foundations of Computer Science (also published by W.H. Freeman), with all examples and exercises in C.

## Book Information

Series: Principles of Computer Science Series

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Average Customer Review: 4.5 out of 5 stars [See all reviews](#) (17 customer reviews)

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## Customer Reviews

I've studied a lot of theoretical computer science and mathematics. I've been studying the "MMIXware: A RISC Computer for the Third Millennium" by Knuth, and the MMIX processor is implemented in C. I don't know C well, and I'm still learning to "code", so I have been looking for a book that discusses both. I ultimately ended up going with "C Programming: A Modern Approach, 2nd Edition". It's highly informal and verbose. None of the examples have any depth to them. There are no proofs. I then went with "Algorithms in C" by Sedgewick. There is depth there, but still verbose. In most cases this book's a great reference when I'm stuck understanding something in "The Art of Computer Programming". There are few proofs in "Algorithms in C". I know Sedgewick is world-class though, and that he's "dumbed down" his "algorithms" books; so much content regarding some topics is omitted, and the explanations are usually missing a lot. I know this because Sedgewick's definitions usually contain much less information than Knuth's when discussing topics both cover. His other two books are highly proof-based and outstanding, but neither deal explicitly with C. ("Analytic Combinatorics" and "An Introduction to the Analysis of

Algorithms".) This book is a perfect blend of theory and implementation. The reader is introduced to inductive proofs, predicate logic, regular expressions, probability, combinatorics, etc. After purchasing or perusing many other introductory programming books, this is the best one. None of the contemporary introductory programming books I've browsed through match the depth or breadth of this book. Not even close. It's great to see programs written by masters, too.

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