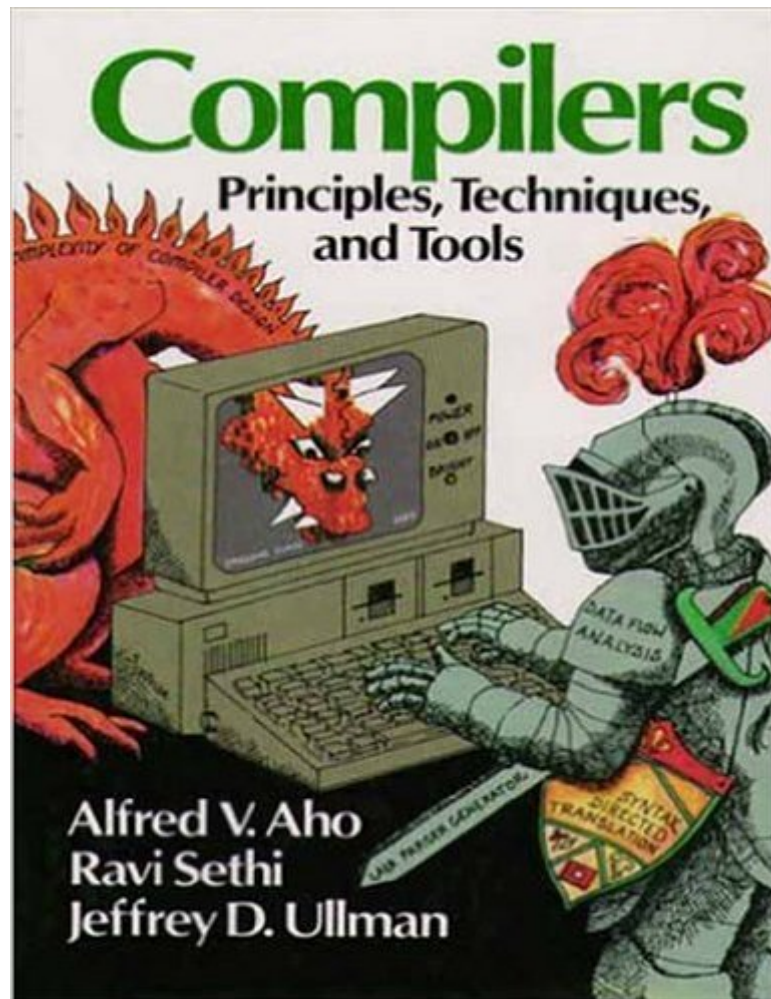The book was found

Compilers: Principles, Techniques, And Tools

Synopsis

This introduction to compilers is the direct descendant of the well-known book by Aho and Ullman, Principles of Compiler Design. The authors present updated coverage of compilers based on research and techniques that have been developed in the field over the past few years. The book provides a thorough introduction to compiler design and covers topics such as context-free grammars, fine state machines, and syntax-directed translation. 0201100886B04062001

Book Information

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Customer Reviews

Once again, I want to point out the title of the book: "Principles, Techniques and Tools".I think there are two kinds of compilers books available today: "Principles and Theory centered" ones and "Modern Compilers design and implementation" ones.One might wonder what's the difference between the two.The former kind is more suited for a course on theoretical aspects that lay the foundation of compiler construction. DFAs, NFAs and Regular expression along with relations and equivalence between the them; FSAs minimizations; grammars and Push-down FSAs in details, ambiguities and and how to cope with them; and so on.This is what I mean for "theoretical aspects". And these topics are covered in great details in this book. Almost the same details they (the authors) placed on writing a more specific book as "Introduction to Automata Theory ...".Same situation applies to principles on more application- oriented topics. Take the example of LR parsing. You can face the topic from a more theoretical side, dealing with details on bottom up parsing (still, it implies an in-depth knowledge of grammars theory), handles and (viable) prefixes, SLR or

canonical LR or LALR parsers and techniques for the relative tables construction by hands (and for this, add a detailed and solid knowledge of Push-down FSAs along with grammars). By hands, at least, if principles are what matter in your course.If you expect to find these topics (with this depth) in a book of the other kind, you might get mislead. As I did when I still had not clear this distinction, before I took the course.The latter kind of books is more suited for a more pragmatic course.

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