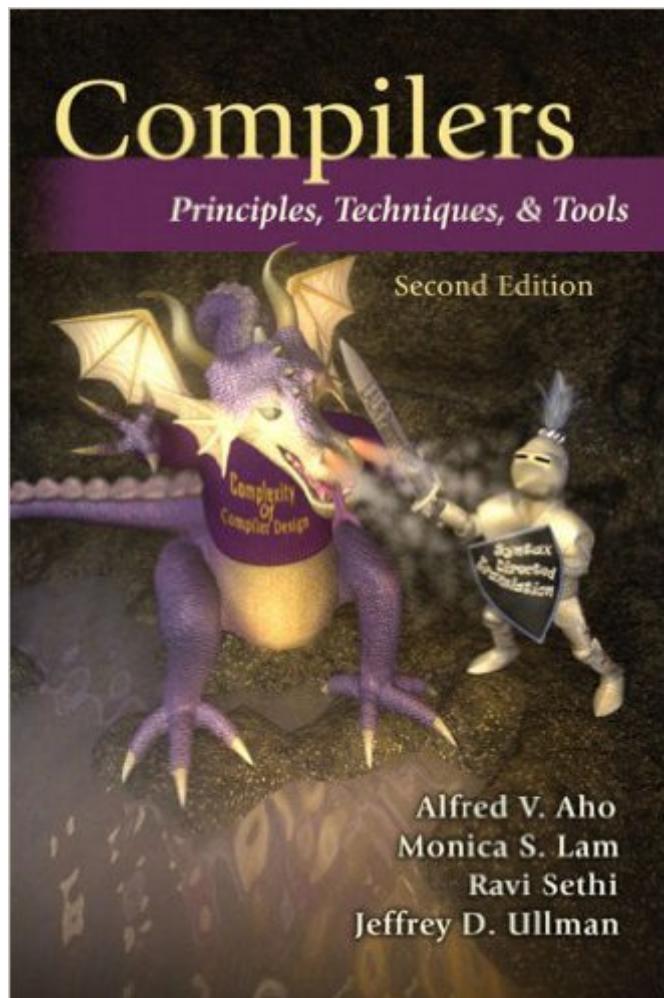


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# Compilers: Principles, Techniques, And Tools (2nd Edition)



## **Synopsis**

Compilers: Principles, Techniques and Tools, known to professors, students, and developers worldwide as the "Dragon Book," is available in a new edition. Every chapter has been completely revised to reflect developments in software engineering, programming languages, and computer architecture that have occurred since 1986, when the last edition published. The authors, recognizing that few readers will ever go on to construct a compiler, retain their focus on the broader set of problems faced in software design and software development.

## **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 them; FSAs minimizations; grammars and Push-down FSAs in details, ambiguities 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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