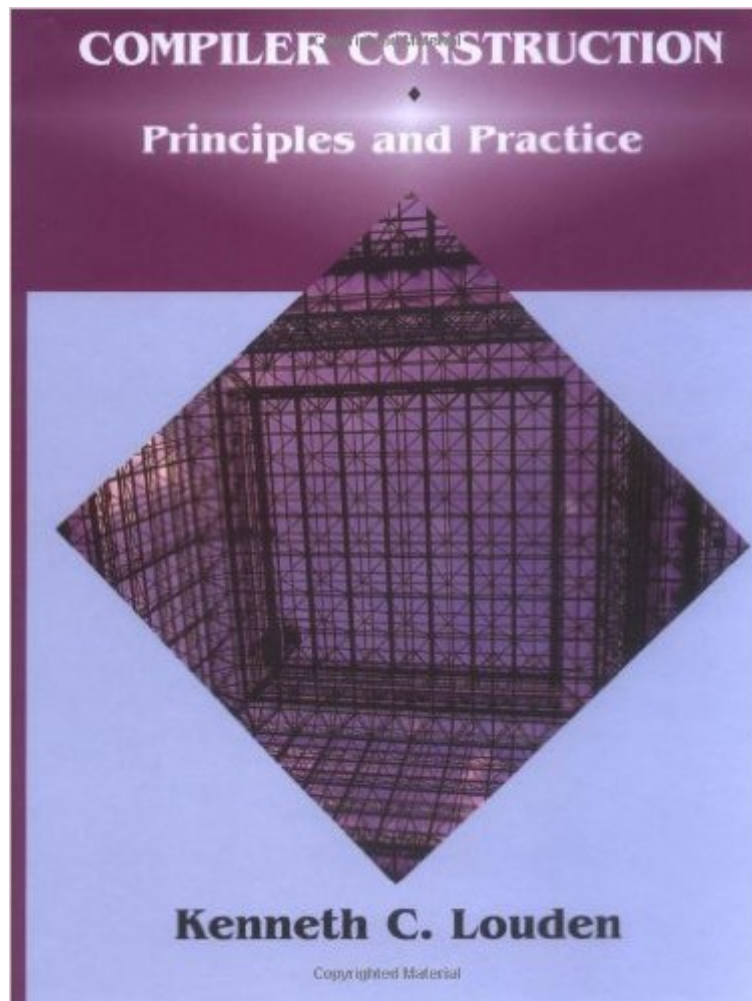


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Compiler Construction: Principles And Practice



Synopsis

Compiler Construction: Principles and Practice features a comprehensive, hands-on case study project for constructing an actual, working compiler. This case study involves a relatively simple programming language that will expose readers to the basic concepts used (and potential pitfalls) in constructing larger compilers. Kenneth Loudon and his colleagues at San Jose State University have successfully class-tested this approach. Professionals joining or beginning a compiler project will find Compiler Construction valuable, as it provides the basic theory, necessary tools, and practical experience to design and program an authentic compiler.

Book Information

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Customer Reviews

I am studying for an M.S in software construction/engineering and this book was used for a compiler course. This review is written from my perspective as a student required to understand the information. The language: The book is written in a clear and friendly "student"-friendly tone. It is actually like the author understands that I am a student and seeing this subject for the first time. The language is straightforward and not over-complex as I have seen it in other books used by instructors. The structure: As a student i liked the content of the exercises a great deal. They kept focus on things which had been discussed earlier and this is always a good thing. I was able to keep pace with the reading and to follow the course at the same time - this is quite a feat (though maybe i just pulled myself together this time). Content: It should be no problem for any instructor to plan the teaching using this book. The first chapters introduces compilers and the idea of simple

text-recognition using regular expressions and finite automatas and moves on from there by introducing the BNF notation to write context-free grammars. Three chapters explain the essence of CF grammars and top-down and bottom-up parsers in a clear and friendly way. The book uses the C language to show programming examples. Personally I had no problems but some might feel that the use of pseudo-code would be more appropriate. The book describes the construction of a simple compiler (written in C) for a simple programming language. C or pseudo-code - I like this way of doing a real example which is followed all the way through the book. The entire C source-code for this compiler is presented in the back of the book and used as reference through the chapters.

I rate *Compiler Construction: Principles and Practice* to the same category as legendary Kernighan/Ritchie *C Programming Language*, Petzold's *Programming Windows* or Richter's *Programming Server Side Applications for MS Windows 2000*. This is one of the best books I have ever read. Compiler construction is a relatively hard topic with a lot of theory needed to be understood before you can write even the most trivial compiler. Regular expressions, finite automata, BNF or attribute grammars are just a few things you need to know and know them very well before you can write your own compiler. Many books paying too much attention to theory, but theory itself without many practical examples is nearly useless - especially if you are new in this field. You need examples, very good, thoroughly explained examples and even better source code where theory is transformed into practice. This is something that the book does and does it very well. Every topic is covered by such examples and at the end of every chapter there is a practical implementation of scanner, parser (recursive descent), semantic analyzer and code generator in 'raw' C, using very simple (but useful) language called TINY. Another great thing is how the book is organized. The first chapter introduces major steps in compiler design like scanning, parsing, semantic, runtime environment, code generation and subsequent chapters dealing with these topics. That's great, because after finishing each chapter you can write your own scanner (chapter 2), top down parser (chapter 4), bottom up parser (chapter 5), semantic analyzer (chapter 6) and runtime environment and code generation (last 2 chapters).

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