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This exciting new book combines a detailed study of modern theories of compiler
design with a complete description (with source code) of a working compiler for a small language. The book reflects
the author's conviction that practical aspects of compiler design cannot be understood without a grasp of
theory, and that theory cannot be truly comprehended by undergraduate students without seeing it put into actual
practice. Unifying the text's discussion of concepts is a complete working compiler written in C and developed
using the techniques discussed in each chapter.
Extensive exercise sets at the end of each chapter focus student's attention on specific programming problems.

1 INTRODUCTION
2 SCANNING
3 CONTEXT-FREE GRAMMARS AND PARSING
4 TOP-DOWN PARSING
5 BOTTOM-UP PARSING
6 SEMANTIC ANALYSIS
7 RUNTIME ENVIRONMENTS
8 CODE GENERATION

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