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programming language. A simple high-level language, loosely based on C, is used to illustrate aspects of the compilation process. Code examples in C are included, together with discussion and illustration of how this code can be extended to cover the compilation of more complex languages. Examples are also given of the use of the flex and bison compiler construction tools. Lexical and syntax analysis is covered in detail together with a comprehensive coverage of semantic analysis, intermediate representations, optimisation and code generation. Introductory material on



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parallelisation is also included. Designed for personal study as well as for use in introductory undergraduate and postgraduate courses in compiler design, the author assumes that readers have a reasonable competence in programming in any high-level language.

Compiler technology is fundamental to computer science since it provides the means to implement many other tools. It is interesting that, in fact, many tools have a

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compiler framework - they accept input in a particular format, perform some processing and present output in another format. Such tools support the abstraction process and are crucial to productive systems development. The focus of Compiler Technology: Tools, Translators and Language Implementation is to enable quick development of analysis tools. Both lexical scanner and parser generator tools are provided as supplements to this book, since a hands-on approach to experimentation with a toy implementation aids in understanding abstract topics such as parse-trees and parse conflicts. Furthermore,

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it is through hands-on exercises that one discovers the particular intricacies of language implementation. *Compiler Technology: Tools, Translators and Language Implementation* is suitable as a textbook for an undergraduate or graduate level course on compiler technology, and as a reference for researchers and practitioners interested in compilers and language implementation.

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science. It covers all rudimental topics concerning formal languages and their models, especially grammars and automata, and sketches the basic ideas underlying the theory of computation, including computability, decidability, and computational complexity. Emphasizing the relationship between theory and application, the book describes many real-world applications, including computer science engineering techniques for language processing and their implementation. Covers the theory of formal languages and their models, including all essential concepts and

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properties Explains how language models underlie language processors Pays a special attention to programming language analyzers, such as scanners and parsers, based on four language models—regular expressions, finite automata, context-free grammars, and pushdown automata Discusses the mathematical notion of a Turing machine as a universally accepted formalization of the intuitive notion of a procedure Reviews the general theory of computation, particularly computability and decidability Considers problem-deciding algorithms in terms of their computational complexity measured according to time and

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space requirements Points out that some problems are decidable in principle, but they are, in fact, intractable problems for absurdly high computational requirements of the algorithms that decide them In short, this book represents a theoretically oriented treatment of formal languages and their models with a focus on their applications. It introduces all formalisms concerning them with enough rigors to make all results quite clear and valid. Every complicated mathematical passage is preceded by its intuitive explanation so that even the most complex parts of the book are easy to grasp.

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After studying this book, both student and professional should be able to understand the fundamental theory of formal languages and computation, write language processors, and confidently follow most advanced books on the subject.

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