



Modern Compiler Implementation in Java

By Andrew W. Appel

Cambridge University Pr. Okt 2002, 2002. Buch. Book Condition: Neu. 261x212x35 mm. Neuware - This textbook describes all phases of a compiler: lexical analysis, parsing, abstract syntax, semantic actions, intermediate representations, instruction selection via tree matching, dataflow analysis, graph-coloring register allocation, and runtime systems. It includes good coverage of current techniques in code generation and register allocation, as well as the compilation of functional and object-oriented languages, that is missing from most books. The most accepted and successful techniques are described concisely, rather than as an exhaustive catalog of every possible variant, and illustrated with actual Java classes. The first part of the book, Fundamentals of Compilation, is suitable for a one-semester first course in compiler design. The second part, Advanced Topics, which includes the compilation of object-oriented and functional languages, garbage collection, loop optimization, SSA form, instruction scheduling, and optimization for cache-memory hierarchies, can be used for a second-semester or graduate course. This new edition has been extensively rewritten to include more discussion of Java and object-oriented programming concepts, such as visitor patterns. A unique feature is the newly redesigned compiler project in Java, for a subset of Java itself. The project includes both front-end and back-end phases,...



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