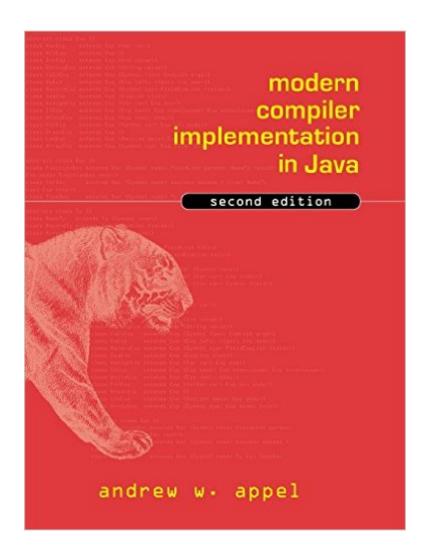
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Modern Compiler Implementation In Java





Synopsis

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 thorough coverage of current techniques in code generation and register allocation, and the compilation of functional and object-oriented languages. The most accepted and successful techniques are described and illustrated with actual Java^TM® classes. The first part is suitable for a one-semester first course in compiler design. The second part; 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 includes more discussion of Java and object-oriented programming concepts such as visitor patterns plus a new Mini-Java programming project. 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.

Book Information

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Customer Reviews

I held the accursed object with both hands and examined it closely. It felt small and weak There was a change after I finished the exam. Suddenly what had once seemed an insurmountable obstacle had been reduced to a collection of molecules. Something small and without worth, a mere shadow of the former imposition. Yes, I held a mere object in my hands. Something, which would no longer hold, power over me. I was suddenly struck by a tremendous urge to exert my power over it. I envisioned myself beating the book against tress and concrete benches, hurling it baseball-pitch style at brick walls, hitting it with a ten-pound sledge at full tilt, drop-kicking it off of high buildings, tearing it cover-from-cover with my bare hands.But most importantly, most eerily satisfying, were the visions of setting the terrible book on its side, allowing the pages to ruffle gently under the cover,-and igniting a book of matches underneath the pages. I longed to see it burn. I wanted to, through my own volition and physical power, reduce it. O book most foul, into the optimally entropic form, then relieve my bladder onto its smoldering ashes. I could think of nothing more satisfying.I'm not entirely sure why I didn't, just then and there, outside the Wetherill Laboratory of Chemistry, satisfy my urges and just destroy the beast. Perhaps I'm not entirely certain that my travail with a report card in hand. But the blind rage continues.It sits on my shelf until then, forever staring at me with a bright red cover and insulting lower-case sans- serif typeface, the author's name 'Appel" an invocation of the original sin which lies within.

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