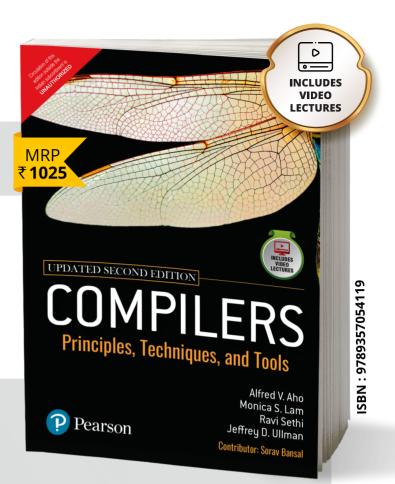


Master the art of compiler design with updated edition



What's new?



Important topics such as context-free grammars, fine-state machines, and syntax-directed translation



Five methods for translation to explain syntax-directed translation



New techniques for data-flow analysis



Code optimisation to work with parallel machines



'Just-in-time compiling' with programming languages such as Java

Expertly written by:

Alfred V. Aho, Lawrence Gussman Professor of Computer Science at Columbia University.

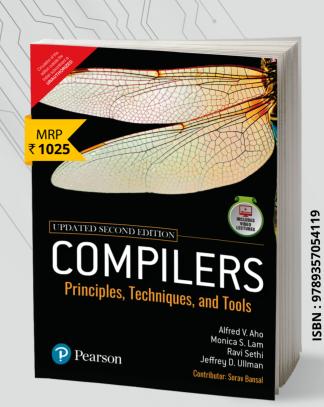
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Chapter 1:

Introduction

Chapter 2:

A Simple Syntax-Directed Translator

Chapter 3:

Lexical Analysis

Chapter 4:

Syntax Analysis

Chapter 5:

Syntax-Directed Translation

Chapter 6:

Intermediate-Code Generation

Chapter 7:

Run-Time Environments

Chapter 8:

Code Generation

Chapter 9:

Machine-Independent Optimisations

Chapter 10:

Instruction-Level Parallelism

Chapter 11:

Optimising for Parallelism and Locality

Chapter 12:

Programming Language Semantics

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Chapter 13:

Undefined Behaviour Semantics

Chapter 14:

Interprocedural Analysis (online)

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Pearson's flagship title **Compilers: Principles, Techniques and Tools,** known to professors, students, and developers worldwide as the 'Dragon Book', is available in an updated edition. This book provides the foundation for understanding theory, practice of compilers and reflects the current state of compilation.