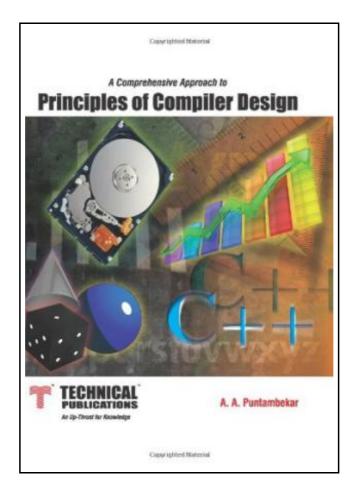
A Comprehensive Approach to Principles of Compiler Designs



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(Dr. Pat Hegmann)

A COMPREHENSIVE APPROACH TO PRINCIPLES OF COMPILER DESIGNS



Technical Publications 0. Softcover. Book Condition: New. First edition. This book covers about Introduction to Compiling, Lexical Analysis, Syntax Analysis, Semantic Analysis, Syntax Directed Translation, Generation of Three Address Code, Run Time Storage and Symbol Table Management, Code Optimization, Code GenerationTable of Contents Introduction to Compiling Introduction Translator What is Compiler ? Phases of Compiler Cousins of Compiler Interpreter The Grouping of Phases Incremental Compiler Cross Compiler Bootstrapping Compiler Construction Tools Lexical Analysis Introduction Role of Lexical Analyser Input Buffering Specification of Tokens Recognition of Tokens A Language for Specifying Lexical Analyser Definition of FA Deterministic Finite Automata (DFA) Non Deterministic Finite Automata (NFA) Concept of Moves Conversion of NFA to DFA Conversion of NFA with to DFA Regular Expression and Finite Automata LEX Generation of Lexical Analyser Sample LEX Programs Lexical Analysis and Pattern Matching Syntax Analysis Introduction Context Free Grammar Derivation and Parse Trees Ambiguous Grammar Parsing Techniques Top-Down Parser Recursive Descent Parsing Predictive LL(1) Parser Bottom-Up Parsing LR Parsers Comparison of LR Parsers Handling Ambiguous Grammar Error Recovery in LR Parser Error Detection and Recovery Automatic Construction of Parser Classification of Errors Semantic Analysis Introduction Need For Semantic Analysis Type Analysis and Type Checking Type Conversions Simple Type Checker Equivalence of Type Expressions Overloading of Functions and Operations Syntax Directed Translation Introduction Syntax-Directed Definition (SDD) Bottom-Up Evaluation of S-Attributed Definitions Attributed Definitions Top-Down Translation Bottom-Up Evaluation of Inherited Attributes Use of Maker Non-terminal Symbol Recursive Evaluation Generation of Three Address Code Introduction Intermediate Languages Generation of Three Address Code Declarations Assignment Statements Arrays Boolean Expression Case Statements Backpatching Procedure Calls Intermediate Code Generation using YACC Run Time Storage and Symbol Table Management Introduction Source Language Issues Storage Organization Storage Allocation Strategies Activation Record Variable Length Data Block Structure and Non Block Structure Storage Allocation Dynamic Scope Parameter...

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