Languages and Machines: An Introduction to the Theory of Computer Science (3rd Edition)

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Pearson, 2005. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: Introduction Part I: Foundations Chapter 1: Mathematical Preliminaries 1.1 Set Theory 1.2 Cartesian Product, Relations, and Functions 1.3 Equivalence Relations 1.4 Countable and Uncountable Sets 1.5 Diagonalization and Self-Reference 1.6 Recursive Definitions 1.7 Mathematical Induction 1.8 Directed Graphs Exercises Bibliographic Notes Chapter 2: Languages 2.1 Strings and Languages 2.2 Finite Specification of Languages 2.3 Regular Sets and Expressions 2.4 Regular Expressions and Text Searching Exercises Bibliographic Notes Part II: Grammars, Automata, and Languages Chapter 3: Context-Free Grammars 3.1 Context-Free Grammars and Languages 3.2 Examples of Grammars and Languages 3.3 Regular Grammars 3.4 Verifying Grammars 3.5 Leftmost Derivations and Ambiguity 3.6 Context-Free Grammars and Programming Language Definition Exercises Bibliographic Notes Chapter 4: Normal Forms for Context-Free Grammars 4.1 Grammar Transformations 4.2 Elimination of Rules 4.3 Elimination of Chain Rules 4.4 Useless Symbols 4.5 Chomsky Normal Form 4.6 The CYK Algorithm 4.7 Removal of Direct Left Recursion 4.8 Greibach Normal Form Exercises Bibliographic Notes Chapter 5: Finite Automata 5.1 A Finite-State Machine 5.2 Deterministic Finite Automata 5.3 State Diagrams and Examples 5.4 Nondeterministic Finite Automata 5.5 Transitions 5.6 Removing Nondeterminism 5.7 DFA Minimization Exercises Bibliographic Notes...

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