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Autore	Davis Martin <1928-2023, >
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Theorem; 6. The Pumping Lemma and Its Applications; 7. The Myhill-Nerode Theorem; CHAPTER 9. Context-Free Languages; 1. Context-Free Grammars and Their Derivation Trees; 2. Regular Grammars; 3. Chomsky Normal Form; 4. Bar-Hillel's Pumping Lemma; 5. Closure Properties; 6. Solvable and Unsolvable Problems; 7. Bracket Languages; 8. Pushdown Automata; 9. Compilers and Formal Languages
CHAPTER 10. Context-Sensitive Languages1. The Chomsky Hierarchy; 2. Linear Bounded Automata; 3. Closure Properties; PART 3: LOGIC; CHAPTER 11. Propositional Calculus; 1. Formulas and Assignments; 2. Tautological Inference; 3. Normal Forms; 4. The Davis-Putnam Rules; 5. Minimal Unsatisfiability and Subsumption; 6. Resolution; 7. The Compactness Theorem; CHAPTER 12. Quantification Theory; 1. The Language of Predicate Logic; 2. Semantics; 3. Logical Consequence; 4. Herbrand's Theorem; 5. Unification; 6. Compactness and Countability; 7. Godel's Incompleteness Theorem
8. Unsolvability of the Satisfiability Problem in Predicate Logic

Sommario/riassunto

Computability, Complexity, and Languages