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Context-Free Languages; 4 Turing Machines; 4.1 One-Tape Turing Machines; 4.2 Examples of Turing Machines; 4.3 Multi-Tape Turing Machines; 4.4 Church-Turing Thesis; 4.5 Unrestricted Grammars; 4.6 Primitive Recursive Functions; 4.7 Pairing Functions and Godel Numberings; 4.8 Partial Recursive Functions; 5 Computability Theory; 5.1 Universal Turing Machines; 5.2 R. E. Sets and Recursive Sets; 5.3 Diagonalization; 5.4 Reducibility; 5.5 Recursion Theorem; 5.6 Undecidable Problems
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Sommario/riassunto

Automata and natural language theory are topics lying at the heart of computer science. Both are linked to computational complexity and together, these disciplines help define the parameters of what constitutes a computer, the structure of programs, which problems are solvable by computers, and a range of other crucial aspects of the practice of computer science. In this important volume, two respected authors/editors in the field offer accessible, practice-oriented coverage of these issues with an emphasis on refining core problem solving skills.
