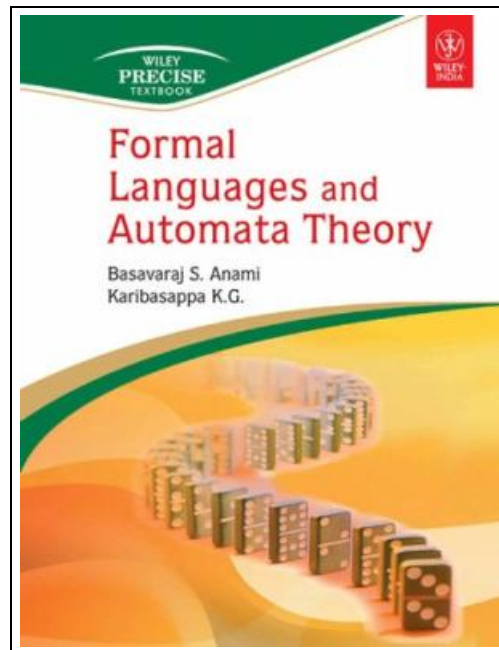# Formal Languages and Automata Theory

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Reviews

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(Janie Wilkinson)

FORMAL LANGUAGES AND AUTOMATA THEORY

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Wiley India Pvt. Ltd, 2011. Softcover. Book Condition: New. Formal Languages and Automata theory presents the theoretical aspects of computer science, and helps define infinite languages in finite ways; construct algorithms for related problems and decide whether a string is in language or not. These are of practical importance in construction of compilers and designing of programming languages, thus establishing the course as a core paper in third/fourth year of various universities. This book adopts a holistic approach to learning from fundamentals of formal languages to undecidability problems. Its organization follows the order in which the course is taught over the years, and is well-accepted by the student community. The contents of each topic motivate the reader to easily understand the concepts rather than remember and reproduce. 1 Mathematical Preliminaries for Finite Automata and Formal Languages Learning Objectives 1.1 Sets 1.2 Relations and Functions 1.3 Graphs and Trees 1.4 Mathematical Induction 1.5 Mathematical Logic 1.6 Formal Language 1.7 Chomsky Hierarchy Languages (CHL) 1.8 Automata Theory 1.9 Applications of Automata Worked-Out Problems Summary Key Terms Exercises 2 Regular Expressions and Regular Languages Learning Objectives 2.1 Regular Expressions 2.2 Regular Languages and Regular Grammar 2.3 Applications of REs Worked-Out Problems Summary Key Terms Exercises 3 Finite State Automata Learning Objectives 3.1 Deterministic Finite Automata 3.2 Non-Deterministic Finite Automata 3.3 NFA and Regular Expressions 3.4 Conversion of Finite Automata to Regular Expression 3.5 Conversion of NFA to DFA 3.6 NFA with e-Transitions (?-NFA) 3.7 Conversion from e-NFA to NFA 3.8 Conversion from e-NFA to DFA 3.9 Output Associated with Finite Automata 3.10 Moore and Mealy Machines 3.11 Minimization of Automata 3.12 Applications of FA Worked-Out Problems Summary Key Terms Exercises 4 Properties of Regular Languages Learning Objectives 4.1 Pumping Lemma for Regular Languages 4.2 Closure Properties of Regular Languages 4.3 Decision Properties of...

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