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Introduction to Automata and Compiler Design

By Dasaradh Ramaiah K.

PHI Learning, 2011. Softcover. Book Condition: New. First edition. This comprehensive book provides the fundamental concepts of automata and compiler design. Beginning with the basics of automata and formal languages, the book discusses the concepts of regular set and regular expression, context-free grammar and pushdown automata in detail. Then, the book explains the various compiler writing principles and simultaneously discusses the logical phases of a compiler and the environment in which they do their job. It also elaborates the concepts of syntax analysis, bottom-up parsing, syntax-directed translation, semantic analysis, optimization, and storage organization. Finally, the text concludes with a discussion on the role of code generator and its basic issues such as instruction selection, register allocation, target programs and memory management. The book is primarily designed for one semester course in Automata and Compiler Design for undergraduate and postgraduate students of Computer Science and Information Technology. It will also be helpful to those preparing for competitive examinations like GATE, DRDO, PG CET, etc. Contents Preface ? Acknowledgements 1. FINITE AUTOMATA 2. REGULAR SET AND REGULAR EXPRESSION 3. CONTEXT-FREE GRAMMAR 4. PUSHDOWN AUTOMATA 5. INTRODUCTION TO COMPILER 6. SYNTAX ANALYSIS 7. BOTTOM-UP PARSING 8. SYNTAX-DIRECTED TRANSLATION 9. SEMANTIC ANALYSIS 10. OPTIMIZATION 11....



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