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## WILEY ACING THE GATE: COMPUTER SCIENCE AND INFORMATION TECHNOLOGY



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Wiley India, 2015. Softcover. Book Condition: New. The major strength of this book lies in the demystifying complex concepts by unpeeling levels of abstraction down to the basic level. The book follows a balanced approach on systematic representation of the text. Each chapter begins with the basics and then in-depth concepts are described with the help of various example(s)/numerical(s) and schematic diagrams. Different ways of interpretation are also highlighted while providing the solutions to previous year GATE question papers and then the chapter is culminated with a summary of important terms/formulas used in that chapter. Therefore, the book is self-contained. Preface Acing the GATE 1 Digital Electronics 1.1 Introduction 1.2 Number System 1.3 Boolean Logic 1.4 Digital Circuits 1.5 Digital Logic Families 2 Computer Organization and Architecture 2.1 Introduction 2.2 Computer Architecture 2.3 Machine Instructions and Addressing Modes 2.4 Arithmetic Logic Unit 2.5 CPU Control Design 2.6 I/O Interface (Interrupt and DMA Mode) 2.7 Instruction Pipelining 2.8 Memory Hierarchy 3 Programming and Data Structures 3.1 Introduction 3.2 Basic Terminology 3.3 Stack 3.4 Queue 3.5 Linked List 3.6 Trees 4 Algorithms 4.1 Introduction 4.2 Algorithm 4.3 Hashing 4.4 Binary Heap 4.5 Searching and Sorting 4.6 Graph 4.7 Greedy Approach 4.8 Graph Traversal 4.9 Dynamic Programming 4.10 All-Pair Shortest Path 4.11 Concepts of Complexity Classes 5 Theory of Computation 5.1 Introduction 5.2 Finite Automata 5.3 Finite Automata and Regular Language 5.4 Pushdown Automata 5.5 Context-Free Grammar and Languages 5.6 Turing Machine 5.7 Closure and Decidability 6 Compiler Design 6.1 Introduction 6.2 Compilers and Interpreters 6.3 Lexical Analyzer 6.4 Parser 6.5 Syntax-Directed Translation 6.6 Runtime Environment 6.7 Intermediate Code Generation 6.8 Code Optimization 7 Operating System 7.1 Introduction 7.2 Types of Operating System 7.3 Process Management 7.4 CPU Scheduling 7.5 Process Synchronization 7.6 Deadlocks 7.7 Threads 7.8 Memory Management 7.9 File System 7.10...



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