**Part I: Foundations**

Chapter 2: Getting Started 26-33

Chapter 3: Growth of Functions 41-45 Chapter 4: Recurrences 54-61

Chapter 5: Probabilistic Analysis and Randomized Algorithms 70-78

**Part II: Sorting and Order Statistics**

Chapter 6: Heapsort 88-94

Chapter 7: Quicksort 103-106

Chapter 8: Sorting in Linear Time 115-124

Chapter 9: Medians and Order Statistics 133-144

**Part III: Data Structures**

Chapter 11: Hash Tables 160-169 Chapter 12: Binary Search Trees 182-188 Chapter 13: Red-Black Trees 201-207 Chapter 14: Augmenting Data Structures 217-225

**Part IV: Advanced Design and Analysis**

**Techniques**

Chapter 15: Dynamic Programming 245-258

Chapter 16: Greedy Algorithms 267-277

Chapter 17: Amortized Analysis 292-300

**Part V: Advanced Data Structures**

Chapter 21: Data Structures for Disjoint Sets 306-313

**Part VI: Graph Algorithms**

Chapter 22: Elementary Graph Algorithms 326-340

Chapter 23: Minimum Spanning Trees 348-354

Chapter 24: Single-Source Shortest Paths 367-378 Chapter 25: All-Pairs Shortest Paths 386-392

Chapter 26: Maximum Flow 407-416

**Part VII: Selected Topics**

Chapter 27: Sorting Networks 424-426