



## Design & Analysis of Algorithms

**Author :** Jatinder Singh

**ISBN 13 :** 978-93-80016-71-9

**ISBN 10 :** 93-80016-71-9

**E-ISBN 13 :** 978-93-80016-71-9

**Edition :** 1

**Pages :** 390

**Type of book :** Paperback

**Weight (g) :** 537.00

**Year :** 2011

**Language :** English

**Publisher :** Khanna Publishing House

**Regular Price :** Rs 275.00

**Sale Price :** Rs 220.00

**Categories :** [All books](#), [Computer Science Engineering](#)

**Condition Type :** New

**Country Origin :** India

### Product Description

This book is an ideal text to provide in depth knowledge on design and analysis of algorithm. The purpose of the book is to make the students understand the fundamentals of design and analysis of algorithm conveniently. It is meant to be used as a text book for B.Sc/BCA/MCA/M.Sc/ B.E./B.Tech/M.Sc/MS/M.Tech and diploma courses, and as a reference book



**Khanna Publishing House**

4C/4344, Ansari Road, Daryaganj, New Delhi-110002

Email: [contact@khannabooks.com](mailto:contact@khannabooks.com) | Tel: 011-2324 44 47 - 48 | Mobile: + +91-99109 09320

---

## Table of Contents

---

### UNIT - 1

Chapter 1: Data Structure Basics Chapter 2: Analysis of Algorithms Chapter 3: Growth of Functions Chapter 4: Sorting Algorithms

### UNIT - 2

Chapter 1: B-trees: Balanced Trees Chapter 2: Binary Search Trees Chapter 3: Disjoint Sets

### UNIT - 3

Chapter 1: Dynamic Programming Chapter 2: The Greedy Method Chapter 3: Backtracking Chapter 4: Divide and Conquer Chapter 5: Branch and Bound

### UNIT - 4

Chapter 1: Chapter 2: Graphs Single- Source Shortest Path Chapter 3: All-Pairs Shortest Paths Chapter 4: Dijkstra's Algorithm Chapter 5: Minimum-Cost Spanning Trees

### UNIT - 5

Chapter 1: String Matching Chapter 2: Randomization Chapter 3: Amortized Analysis of Data Structure

---

## Author

---

**Jatinder Singh** Er. Jatinder Singh (Asst. Professor) Dept.of I.T. , S.S.S. College of Engg. And Tech. Gurdaspur (PB)

---

