



## Design & Analysis of Algorithms

<b>Author :</b>	Jatinder Singh
<b>ISBN 13 :</b>	978-93-80016-71-9
<b>ISBN 10 :</b>	93-80016-71-9
<b>E-ISBN 13 :</b>	978-93-80016-71-9
<b>Edition :</b>	1
<b>Pages :</b>	390
<b>Type of book :</b>	Paperback
<b>Weight (g) :</b>	537.00
<b>Year :</b>	2011
<b>Language :</b>	English
<b>Publisher :</b>	Khanna Publishing House
<b>M.R.P :</b>	Rs 275.00
<b>Categories :</b>	<a href="#">Computer Science Engineering</a>
<b>Condition Type :</b>	New
<b>Country Origin :</b>	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 BSc/BCA/MCA/MSc/ B.E./B. Tech/MSc/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:** Graphs. **Chapter 2:** 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).

---

