

Desig	<mark>ו &amp;</mark>	Ana	lysis	of
Algori	thn	ns		

Author :	Gajendra Sharma	
ISBN 13 :	978-93-82609-43-8	
ISBN 10 :	93-82609-43-1	
E-ISBN 13 :	978-93-82609-43-8	
Edition :	4	
Pages :	672	
Type of book :	Paperback	
Weight (g) :	840.00	
Year :	2023	
Language :	English	
Publisher :	Khanna Publishing House	
M.R.P :	Rs 460.00	
Categories :	Computer Science Engineering, Computer Science Engineering	
Condition Type :	New	
Country Origin :	India	

# **Product Description**

This book is intended for B. Tech (CS/IT), MCA and M. Tech students who want to have the basic to advanced knowledge of the design and analysis of algorithms. This book discusses various features of Algorithm design. In this 3rd edition more algorithms are added, papers of last few years are solved in chapters; few algorithms which were difficult to understand in previous edition are presented in easier form.



#### Khanna Publishing House

4C/4344, Ansari Road, Daryaganj, New Delhi-110002 Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: + +91-99109 09320

## **Table of Contents**

- **Chapter 1:** Introduction.
- **Chapter 2:** Growth of Functions.
- Chapter 3: Summations.
- Chapter 4: Recurrences.
- Chapter 5: Sets Relations and Functions.
- Chapter 6: Probability.
- Chapter 7: Heaps and Heapsort.
- Chapter 8: Quicksort.
- Chapter 9: Sorting in Linear Time.
- Chapter 10: Medians and Order Statistics.
- Chapter 11: Elementary Data Structures.
- Chapter 12: Hashing.
- Chapter 13: BS Trees.
- Chapter 14: Optimal Binary Search Trees.
- Chapter 15: AVL Trees And Splaying.
- Chapter 16: RB-Trees.
- Chapter 17: Augmenting Data Structure.
- Chapter 18: Dynamic Programming.
- Chapter 19: Greedy Algorithms.
- Chapter 20: Amortized Analysis.
- Chapter 21: B. Trees-External Searching.
- Chapter 22: Binomial Trees and Binomial Heaps.
- Chapter 23: Fibonacci Heaps.
- Chapter 24: Data Structure for Disjoint Sets.
- Chapter 25: Elementary Graph Algorithms.
- Chapter 26: Back Tracking.

Chapter 27: Branch and Bound.

### Khanna Publishing House



4C/4344, Ansari Road, Daryaganj, New Delhi-110002 Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobil<u>e: + +91-99109 09320</u>

# Author

**Gajendra Sharma**, a widely acclaimed author in the field of IT and Software both at the National and International arena, is currently working as an Assistant Professor at IIMT Group of College, Greater Noida. The best qualities of his writings have been the core topics of computer science, which has always been precise and concise with all concepts dealt in greater detail. He is having nine years of teaching experience. He also provides consultancy in software development to several IT firms.



4C/4344, Ansari Road, Daryaganj, New Delhi-110002 Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: + +91-99109 09320