



ADVANCED DATA STRUCTURES

An Algorithmic Approach with C++

DR. IKVINDERPAL SINGH • PROF. GURJEET SINGH

KHANNA BOOK PUBLISHING EDITION

Advanced Data Structures

Author : Ikvinderpal Singh

ISBN 13 : 978-93-81068-79-3

ISBN 10 : 93-81068-79-8

E-ISBN 13 : 978-93-81068-79-3

Edition : 1

Pages : 764

Type of book : Paperback

Weight (g) : 1006.00

Year : 2013

Language : English

Publisher : Khanna Publishing House

Regular Price : Rs 595.00

Sale Price : Rs 476.00

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

Condition Type
:

New

Country Origin
:

India



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

Product Description

Each chapter begins with an outline an overview, and a list of learning objective. Extensive coverage of data Structure basics, pictorial representation of each and every Data Structures in given in detail. Covers all tree structures like binary tree, binary search trees, AVL, B+-tree and red black trees in detail. Brief introduction to binary heaps, heap opearations, specifications, implementation and applications is covered. Demonstration the development of algorithms is a lucid manner. Includes numbers illustrative examples to understand the topic easily. Demonstrates the implementation of algorithms in a good programming style. Diagrams are used extensively throughout the text. Contains numerous theory questions at the last of each chapter. Gives detailed description of advanced head structures, priority queue operations, and double ended priority queues in lucid manner. Includes the concepts like dictioneries, binomial heaps, Fibonacci heaps. Data structures for disjoint sets, tables and table operations. Gives detailed description of amortized analysis, starting matching, and graph algorithms. Detailed analysis of each and every sorting and searching technique is covered with the help of programming examples. Presents various external data structures-external storage, external files, external sorting searching indexing files, external hashing. Brief introduction to the concept of file and storage management.

Table of Contents

Chapter 1: Elementary Data Structures Chapter 2: Review of Algorithm Analysis Chapter 3: Trees Chapter 4: Binary Search Trees Chapter 5: Red Black Trees Chapter 6: B Trees Chapter 7: AVL Trees Chapter 8: 2-3 Trees Chapter 9: 2-3-4 Trees Chapter 10: Heaps Chapter 11: Advanced Heap Structures Chapter 12: Dictionaries Chapter 13: Binomial Heaps Chapter 14: Fibonacci Heaps Chapter 15: Data Structures For Disjoint Sets And Tables Chapter 16: Amortized Analysis Chapter 17: String Processing Chapter 18: Graphs Chapter 19: Sorting And Searching Techniques Chapter 20: External Data Structures Chapter 21: External Hashing Chapter 22: Dynamic Storage Management

Author

Ikvinderpal Singh Ikvinderpal Singh, is Lecturer of P.G. Deptt. Of Computer Science & Applications, Khalsa College, Amritsar which is a premier institute in North India. He obtained his MCA with distinction from Guru Nanak Dev University, Amritsar. He has always been excellence right from his student carrer. He has written five books. He brought name for himself when he topped the college in B.Sc. His other areas of interest include Fuzzy systems, digital electronics and java programming.

