



## Data Structures - An Algorithmic Approach with C

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## Product Description

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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. Brief introduction to C language, various types of data structures and analysi of algorithms complexity 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. Objective-type questions have been provided. Around 200 solved C programs and algorithms are included. Diagrams are used extensively throughout the text. Contains numerous theory questions at the last of each chapter. Gives detailed description of arrays, stack and queues in lucid manner. Covers all tree structures like binary tree, binary search trees, AVL, B+tree and red black trees in detail. Detailed analysis of each and every sorting and searching technique is covered with the help of Programming examples. Presents various hashing techniques like hash functions, linear probing, quadratic probing, double hashing and rehashing. Brief introduction to the concept of file and storage management. This book will be useful for student of BE (Computer/Electronics), B. Tech, ME(Computer/Electronics), M.Tech, MCA BCA, M.Sc., B.Sc. and also to students pursuing A/B/C-level course of DOEACC.

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## Author

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**R. Singh** "R Singh, MCA is equipped with an extraordinary calibre and appreciable academic potency. He has teaching experience of nearly twenty years. He has authored ten books on various complex topics of computer science. He has already submitted his Ph.D. thesis in the field of system simulation. His other areas of interest include Software Engineering, Data Structures and Information Systems. "

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