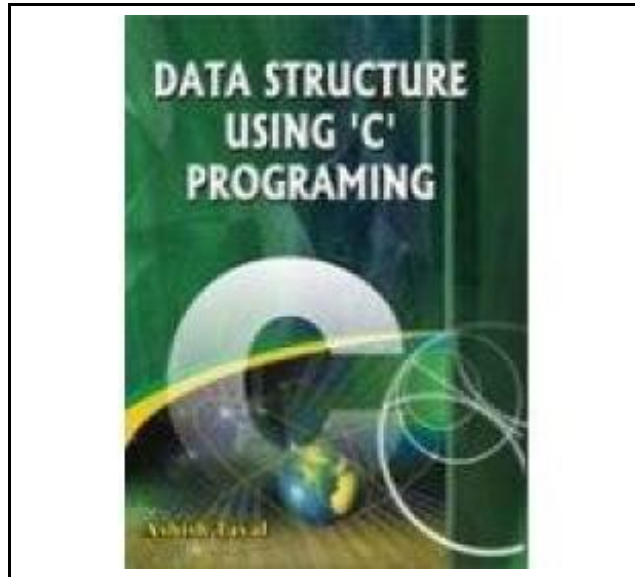# Data Structure Using ?C? Programing

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Reviews

This book will not be simple to get going on reading but extremely exciting to read through. Yes, it can be play, still an interesting and amazing literature. I am very easily could possibly get a delight of reading a written book.

(Rene Olson)

DATA STRUCTURE USING ?C? PROGRAMING

Global Vision Publishing House, 2010. Softcover. Book Condition: New. This book provides introduction to Data structures and algorithms including their design, analysis and implementation. `C` is the language used to implement the algorithms. This book provides a detail description about data structure and every algorithm is written with proper indentation and explained in detail with the help of examples and figures. More emphasis is given on sorting algorithms, stacks, linked lists, trees and graphs. This book contains more than 100 examples to understand the algorithms deeply supported by programs. This is a student oriented book which covers syllabus of universities like U.P.Technical University, Uttarakhand Technical University, Punjab Technical University, Maharishi Dayanand University, Kurukshetra University, Rajasthan Technical University. Contents Preface (v) Unit 1 Introduction to Data Structure and Algorithms 1 Structure ? Data Structure ? Classification of Data Structures ? Data Structure Operations ? Data Structure Descriptions ? What is an Algorithm? ? Characteristics/Properties of Algorithm ? Pseudocode ? Algorithm Design Strategies ? Time and Space Complexity ? Asymptotic Analysis ? Analysis of Algorithms ? Summary Questions Unit 2 Recurrences 35 Structure ? What is Recursion? ? Types of Recursion ? Advantages of Recursion ? Disadvantages of Recursion ? Recursion vs Iteration ? Simulating Recursion ? Tail Recursion ? Removal of Recursion ? Recurrence ? Summary Questions Unit 3 Arrays and Strings 57 Structure ? Introduction to Array ? Initialize One-dimensional Array ? Representation of One-dimensional Array ? ? Memory Allocation in C ? Traversing One-dimensional Array ? Insertion in One-dimensional Array ? Deletion from One-dimensional Array ? Array with Functions ? Multidimensional Arrays ? Initialize Two-dimensional Array ? Representation of Two-dimensional Array ? Three/more Dimensional Array ? Sparse Matrices ? Strings in C ? String Matching ? Summary ? Questions Unit 4 Searching and Sorting 118 Structure ? Introduction to...

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