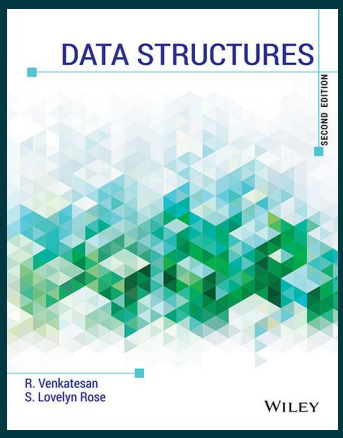
WILEY



Data Structures, 2ed

By R. Venkatesan, S. Lovelyn Rose

Paperback 9788126577149 ₹850.00

Pages: 312

Description

The book has been divided into six chapters. Chapter 1 deals with the preliminaries that are required to appreciate the need for studying data structures. Chapter 2 presents the linear class of data structures. Chapter 3 deals with the important non-linear structures. Advanced data structures such as balanced search trees, heaps etc. have been explained in detail in Chapter 4. Meticulous effort has been taken to provide algorithms for each operation to be performed on these data structures, which could be readily converted into working programs using any one of the modern programming languages.

About the Author

R. Venkatesan, S. Lovelyn Rose

Dr. R. Venkatesan has 18 years of industry experience and was actively involved in coordinating and managing large-scale software projects. Currently, he is a Professor in the Department of CSE at PSG College of Technology, Coimbatore. He is also a Fellow of the Institution of Engineers of India. He has several publications in national and international journals and conferences. His areas of interest include software engineering, data structures

Table of Contents

1 Introduction to Algorithms and Data Structures

1.1 Introduction

1.2 Algorithms

1.3 Data Structures

2 Linear Data Structures

2.1 Introduction

2.2 Arrays

2.3 Lists

2.4 Arrays Versus Linked Lists

2.5 Stacks

2.6 Queues

3 Non-Linear Data Structures

3.1 Introduction

3.2 Trees

3.3 Graphs
4 Advanced Data Structures
4.1 Introduction
4.2 Hash Tables
4.3 Heaps
4.4 AVL Trees
4.5 Red–Black Trees
4.6 B Trees
4.7 Trie Structures
5 Sorting
5.1 Introduction
5.2 Types of Sorting Algorithms
5.3 Sorting Techniques
5.4 Time Complexity of Sorting Techniques
6 File Structures
6.1 Introduction
6.2 Definitions and Concepts
6.3 Physical Structure of Hard Disk
6.4 File Operations
6.5 File Organisation
6.6 External Sorting
Summary
Multiple Choice Questions
Short Answer Questions
Long Answer Questions
Review Questions
Answers to Multiple Choice Questions

To purchase this product, please visit:
https://www.wileyindia.com/data-structures-2ed.html

Scan to buy