

<<数据结构>>

图书基本信息

书名：<<数据结构>>

13位ISBN编号：9787302207313

10位ISBN编号：7302207313

出版时间：2009-9

出版时间：清华大学

作者：(印)克里斯哈拉莫斯//库玛纳维尔

页数：604

版权说明：本站所提供下载的PDF图书仅提供预览和简介，请支持正版图书。

更多资源请访问：<http://www.tushu007.com>

## 前言

C programming language offers several facilities to group data together in convenient packages, or data structures. With the emergence of C as the most popular language of implementation, it has been used in this book to extensively examine data structures. This Book is Meant for... Keeping in mind the level of beginners, the book is written without any prerequisites. It is an ideal textbook for students of various courses in Computer Science at the diploma, polytechnic, undergraduate and postgraduate levels, and also for new programmers who wish to know about the usage of different data structures in their project. Student Friendly Approach... Students will gain a good appreciation of the subject as this book has a clear display of syntax and abundant programming examples. To simplify concepts, the data structures are implemented using C language, in a step-by-step manner.

## &lt;&lt;数据结构&gt;&gt;

## 内容概要

有关数据结构的教材很多，而本书是一本非常有特点的教材，每章先简要介绍本章的主要内容，给出基本的知识背景，然后使用大量的示例、表格、插图和流程图来阐述各种概念和知识，方便了读者的理解，同时给出了大量的源代码，帮助读者实现实际的数据结构，每章后面提供了复习题、多项选择题和编程练习题，有助于读者巩固所学知识的理解，是一本非常理想的数据结构教材。

每章先简要介绍本章的主要内容，给出基本的知识背景。

使用了大量的已求解示例、表格、插图和流程图，大大方便了读者的理解。

给出了大量的源代码，帮助读者实现实际的数据结构，从而提供程序的可靠性。

每章后面提供了复习题、多项选择题和编程练习题，有助于巩固所学知识的理解。

通过概念和编程示例来阐述每种数据结构的应用。

## 作者简介

作者：(印象)克里斯哈拉莫斯(R Krishnamoorthy) (印象)库玛纳维尔(G Indirani Kumravel)R Krishnamoorthy, PhD is Professor of Information Technology, Bharathidasan Institute of Technology, Bharathidasan University, Trichy. Dr R Krishnamoorthy received his M. Tech Degree in Computer Science and Engineering from Indian Institute of Technology, Kanpur and PhD degree in Computer Science and Engineering from Indian Institute of Technology, Kharagpur, with specialization in Computer Vision and Image Processing. He has 24 years of teaching experience. He is the author of three books, and forty-four technical papers published in National and International Conferences and International Journals. He has produced five PhDs. He is member of CSI, ISTE, IEEE and ACM. His areas of interest include network security, image processing and software testing. G Indirani Kumaravel is Senior Lecturer in Computer Science and Engineering, Annamalai University, Chidambaram. She received her M E degree in Computer Science and Engineering from Annamalai University. Indirani has 12 years of teaching experience. She is a member of CSI. Her areas of interest include Speech and Image Processing.

## 书籍目录

Preface  
1. Data Structures—An Overview 1.1 Introduction 1.2 Data Types 1.3 Program Modules 1.4 Control Structures 1.5 Looping Structures 1.6 Arrays 1.7 Structures 1.8 Pointers 1.9 Recursion Review Yourself Multiple Choice Questions Programming Exercises  
2. Strings and Character Manipulation 2.1 Introduction 2.2 Primitive Functions or Operations on Strings 2.3 Representation of Strings 2.4 String Manipulation in C 2.5 String Manipulation Applications Review Yourself Multiple Choice Questions Programming Exercises  
3. Stacks 3.1 Introduction 3.2 Definition 3.3 Primitive Operations 3.4 An abstract Data Type (ADT) 3.5 Implementation 3.6 Applications of Stack Review Yourself Multiple Choice Questions Programming Exercises  
4. Queues 4.1 Introduction 4.2 Definition 4.3 Operations on a Queue 4.4 ADT for Queues 4.5 Representation of Queue 4.6 Various Other Queue Structures 4.7 Applications Review Yourself Multiple Choice Questions Programming Exercises  
5. Linked Lists 5.1 Introduction 5.2 Definition 5.3 ADT for Linked List 5.4 Singly Linked List 5.5 Doubly Linked List 5.6 Circular Linked Lists 5.7 Sparse Matrices 5.8 Applications 5.9 Additional Programs Review Yourself Multiple Choice Questions Programming Exercises  
6. Trees 6.1 Introduction 6.2 Definition 6.3 Terminologies Used 6.4 Binary Tree 6.5 Threaded Binary Trees 6.6 Heap Trees 6.7 Deaps 6.8 Huffman Algorithm 6.9 Decision Trees 6.10 Game Tree 6.11 Applications Review Yourself Multiple Choice Questions Programming Exercises  
7. Graphs  
8. Sorting  
9. Searching  
10. Search Trees  
11. File Structures  
Index

<<数据结构>>

章节摘录

插图：

<<数据结构>>

编辑推荐

《数据结构(C语言版)》：大学计算机教育国外著名教材系列(影印版)

版权说明

本站所提供下载的PDF图书仅提供预览和简介，请支持正版图书。

更多资源请访问:<http://www.tushu007.com>