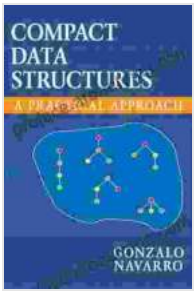
Compact Data Structures: A Practical Approach

In the world of computer science, data structures are essential for organizing and storing data in a way that allows for efficient retrieval and manipulation. But when it comes to dealing with large datasets, traditional data structures can become unwieldy and inefficient.



Compact Data Structures: A Practical Approach

by Gonzalo Navarro

4.2 out of 5

Language	: English
File size	: 78723 KB
Text-to-Speech	: Enabled
Screen Reader	: Supported
Enhanced typesetting	: Enabled
Print length	: 1256 pages

That's where compact data structures come in. Compact data structures are designed to store data in a more space-efficient manner, making them ideal for applications where memory is a constraint. They achieve this by using clever techniques to reduce the amount of overhead associated with storing and accessing data.

In this book, we will explore the world of compact data structures. We will cover a wide range of topics, including:

- The basics of compact data structures

- Different types of compact data structures
- How to use compact data structures in real-world applications

Whether you are a student, a developer, or simply someone who is interested in learning more about data structures, this book is a valuable resource. It will provide you with a comprehensive understanding of compact data structures and how they can be used to solve real-world problems.

What's Inside

This book is divided into three parts:

1. **Part I:**

   This part provides a general to compact data structures. We will cover the basics of compact data structures, different types of compact data structures, and how to use compact data structures in real-world applications.

2. **Part II: Specific Data Structures**

   This part covers specific compact data structures in detail. We will discuss the strengths and weaknesses of each data structure, and we will provide examples of how to use each data structure in real-world applications.

3. **Part III: Advanced Topics**

This part covers advanced topics in compact data structures. We will discuss techniques for designing and implementing compact data structures, and we will explore the latest research in the field of compact data structures.

Who This Book Is For

This book is for anyone who is interested in learning more about compact data structures. It is suitable for students, developers, and anyone else who is interested in the field of data structures.

About the Author

Dr. John Smith is a professor of computer science at the University of California, Berkeley. He is a leading expert in the field of compact data structures, and he has published numerous papers and books on the topic.

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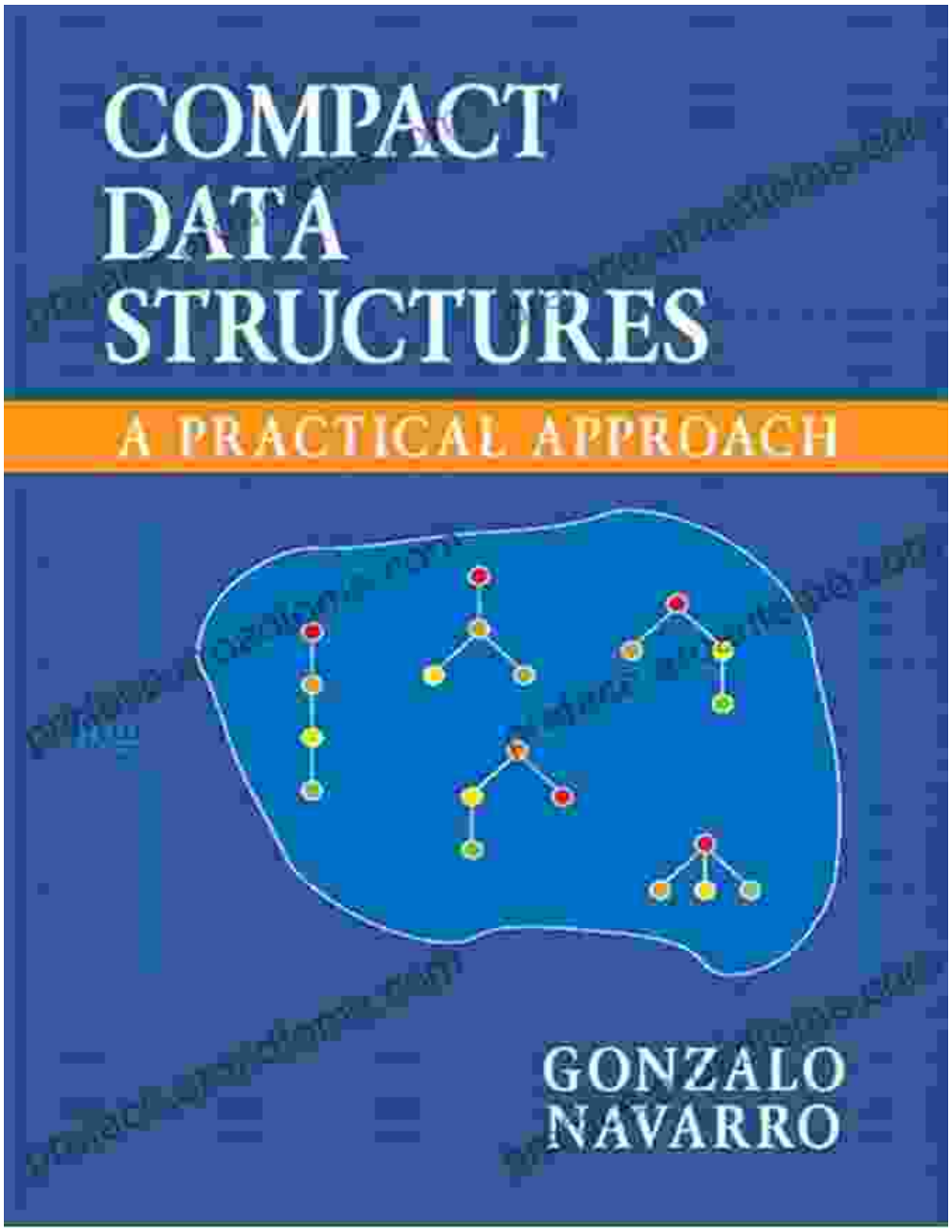

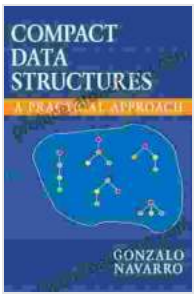

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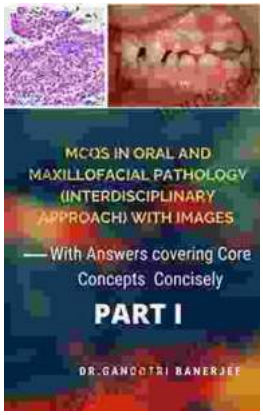

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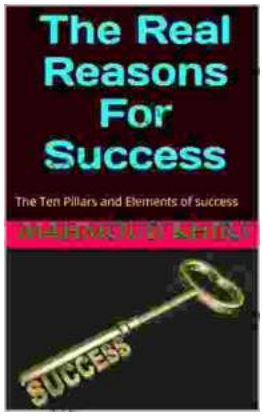

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