Handbook Of Data Structures And Applications Chapman Hall Crc Computer And

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Data structures are a fundamental component of computer science. They are used to organize and store data in a way that makes it efficient to access and manipulate. A wide variety of data structures exist, each with its own strengths and weaknesses. The choice of which data structure to use depends on the specific application requirements.

The Handbook of Data Structures and Applications is a comprehensive resource that provides in-depth coverage of a wide range of data structures. The book is written by a team of experts in the field of computer science, and it provides a thorough and up-to-date overview of the latest research and developments in data structures.

Handbook of Data Structures and Applications (Chapman & Hall/CRC Computer and Information Science Series) by Roddy Scheer

★★★★★ 5 out of 5

Language	: English
File size	: 42859 KB
Text-to-Speech	: Enabled

Overview

The Handbook of Data Structures and Applications is divided into three parts. The first part provides an overview of the fundamental concepts of data structures. This part covers topics such as the abstract data type (ADT) model, time complexity analysis, and space complexity analysis.

The second part of the book provides a detailed discussion of specific data structures. This part covers a wide range of data structures, including arrays, linked lists, stacks, queues, trees, and graphs. Each chapter in this part provides a detailed overview of the data structure, including its strengths and weaknesses, its time complexity, and its space complexity.

The third part of the book provides a survey of applications of data structures. This part covers a wide range of applications, including operating systems, databases, compilers, and artificial intelligence. Each chapter in this part provides a detailed overview of the application, including the specific data structures that are used and the performance benefits that are achieved.
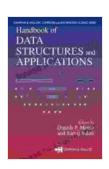
Applications

Data structures are used in a wide variety of applications, including:

* Operating systems: Data structures are used to manage memory, processes, and files in operating systems. * Databases: Data structures are

used to store and manage data in databases. * Compilers: Data structures are used to represent the source code of programs and to generate the corresponding machine code. * Artificial intelligence: Data structures are used to represent knowledge and to solve problems in artificial intelligence.

The Handbook of Data Structures and Applications provides a comprehensive overview of the wide range of applications of data structures. The book is a valuable resource for anyone who is interested in learning more about data structures and their applications.

The Handbook of Data Structures and Applications is a comprehensive and up-to-date resource on data structures. The book provides a thorough overview of the fundamental concepts of data structures, a detailed discussion of specific data structures, and a survey of applications of data structures. The book is a valuable resource for anyone who is interested in learning more about data structures and their applications.

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