Object Oriented Data Structures

Object-Oriented Data Structures Using JavaObject Oriented Data StructuresObject-oriented Data Structures Using JavaC++, Object-oriented Data StructuresJava: Data Structures and ProgrammingObjects, Abstraction, Data Structures and DesignData Structures, Algorithms, and Object-oriented ProgrammingIntroduction to Data Structures and Algorithms with C++Databases Theory and ApplicationsAn Object-oriented Introduction to Data Structures Using EiffelData Structures and Algorithms with Object-Oriented Design Patterns in C++Data Structures and AlgorithmsData Structures and AlgorithmsFuture Databases '92 - Proceedings Of The 2nd Far-east Workshop On Future Database SystemsFundamentals of OOP and Data Structures in JavaData Structures and Algorithms in C++Data StructuresData Structures, Algorithms, and Software Principles in CData Structures and Algorithms with Object-oriented Design Patterns in C⬚Object-Oriented Data Structures Using Java, 4th Edition Dale K. S. Easwarakumar Nell B. Dale Saumyendra Sengupta Liwu Li Elliot B. Koffman Gregory L. Heileman Glenn W. Rowe Mohamed A. Sharaf Richard S. Wiener Bruno R. Preiss John Beidler Bruno R. Preiss Qiming Chen Richard Wiener Michael T. Goodrich Sesh Venugopal Thomas A. Standish Bruno R. Preiss Dale

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object oriented data structures using java fourth edition presents traditional data structures and object oriented topics with an emphasis on problem solving theory

and software engineering principles

data structures in java is a continuation of nell dale s best selling introduction to java and software design text data structures is designed for students who have already taken one semester of computer science and are able to take a problem of medium complexity write an algorithm to solve the problem code the algorithm in a programming language and demonstrate the correctness of their solution the focus is on teaching computer science principles with chapter concepts being reinforced by case studies the object oriented concepts of encapsulation inheritance and polymorphism are covered while the book remains centered on abstract data types

this introduction to the java language integrates a discussion of object oriented programming with the design and implementation of data structures it covers the most important topics including algorithm analysis time and space complexities java built in data structure classes input and output data and access streams and the persistency of data

koffman and wolfgang introduce data structures in the context of c programming they embed the design and implementation of data structures into the practice of sound software design principles that are introduced early and reinforced by 20 case studies data structures are introduced in the c stl format whenever possible each new data structure is introduced by describing its interface in the stl next one or two simpler applications are discussed then the data structure is implemented following the interface previously introduced finally additional advanced applications are covered in the case studies and the cases use the stl in the implementation of each data structure the authors encourage students to perform a thorough analysis of the design approach and expected performance before actually undertaking detailed design and implementation students gain an understanding of why different data structures are needed the applications they are suited for and the advantages and disadvantages of their possible implementations case studies follow a five step process problem specification analysis design implementation and testing that has been adapted to object oriented programming students are encouraged to think critically about the five step process and use it in their problem solutions several problems have extensive discussions of testing and include methods that automate the testing process some cases are revisited in later chapters and new solutions are provided that use different data structures the text assumes a first course in programming and is designed for data structures or the second course in programming especially those courses that include coverage of oo design and algorithms a c primer is provided for students who have taken a course in another programming language or for those who need a review in c finally more advanced coverage of c is found in an appendix course hierarchy course is the second course in the cs curriculum

required of cs majors course names include data structures and data structures algorithms

a complete introduction to the topic of data structures and algorithms approached from an object oriented perspective using c all data structures are described including stacks queues sets linked lists trees and graphs searching and sorting algo

this book constitutes the refereed proceedings of the 26th australasian database conference adc 2015 held in melbourne vic australia in june 2015 the 24 full papers presented together with 5 demo papers were carefully reviewed and selected from 43 submissions the australasian database conference is an annual international forum for sharing the latest research advancements and novel applications of database systems data driven applications and data analytics between researchers and practitioners from around the globe particularly australia and new zealand the mission of adc is to share novel research solutions to problems of today s information society that fulfill the needs of heterogeneous applications and environments and to identify new issues and directions for future research adc seeks papers from academia and industry presenting research on all practical and theoretical aspects of advanced database theory and applications as well as case studies and implementation experiences

guide to the object oriented programming language

an object oriented learning framework for creating good software design bruno preiss presents readers with a modern object oriented perspective for looking at data structures and algorithms clearly showing how to use polymorphism and inheritance and including fragments from working and tested programs

this textbook provides an in depth course on data structures in the context of object oriented development its main themes are abstraction implementation encapsulation and measurement that is that the software process begins with abstraction of data types which then lead to alternate representations and encapsulation and finally to resource measurement a clear object oriented approach making use of booch components will provide readers with a useful library of data structure components and experience in software reuse students using this book are expected to have a reasonable understanding of the basic logical structures such as stacks and queues throughout ada 95 is used and the author takes full advantage of ada s encapsulation features and the ability to present specifications without implementational details ada code is supported by two suites available over the world wide

this volume represents a valuable collective contribution to the research and development of database systems it contains papers in a variety of topics such as

data models distributed databases multimedia databases concurrency control hypermedia and document processing user interface query processing and database applications

fundamentals of oop and data structures in java is a text for an introductory course on classical data structures part one of the book presents the basic principles of object oriented programming oop and graphical user interface gui programming with java as the example language part two introduces each of the major data structures with supporting gui based laboratory programs designed to reinforce the basic concepts and principles of the text these laboratories allow the reader to explore and experiment with the properties of each data structure all source code for the laboratories is available on the web by integrating the principles of oop and gui programming this book takes the unique path of presenting the fundamental issues of data structures within the context of paradigms that are essential to today s professional software developer the authors assume the reader has only an elementary understanding of java and no experience with oop

writing with a consistent object oriented viewpoint the authors put an emphasis on design and analysis with carefully developed c code and corresponding concepts

using c this book develops the concepts and theory of data structures and algorithm analysis in a gradual step by step manner proceeding from concrete examples to abstract principles standish covers a wide range of both traditional and contemporary software engineering topics the text also includes an introduction to object oriented programming using c by introducing recurring themes such as levels of abstraction recursion efficiency representation and trade offs the author unifies the material throughout mathematical foundations can be incorporated at a variety of depths allowing the appropriate amount of math for each user

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