

Object Oriented Data Structures

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Java: Data Structures and Programming
Data Structures and Software Development in an Object-oriented Domain
Guide to Data Structures
A Practical Introduction to Data Structures and Algorithm Analysis
Object-Oriented Data Structures Using Java, 4th Edition
Dale Nell B. Dale K. S. Easwarakumar Bruno R. Preiss Richard S. Wiener Gregory L. Heileman Bruno R. Preiss Mohamed A. Sharaf Saumyendra Sengupta Sesh Venugopal John Beidler Elliot B. Koffman Bruno R. Preiss Qiming Chen Richard Wiener Liwu Li Jean-Paul Tremblay James T. Streib Clifford A. Shaffer 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

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

guide to the object oriented programming language

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

this book presents a broad coverage of fundamental and advanced concepts of data structure and algorithms it provides readers with a modern synthesis of concepts with examples of practical applications c is used throughout to illustrate the construction and use of abstract data types and to demonstrate object oriented implementations disk contains all the c codes from the book 165 illus

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

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

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

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

this text provides an introduction to basic data structures object oriented analysis and design and fundamental software design concepts and principles the authors begin with the traditional basic data structures and algorithms with their java implementation and analysis

this accessible and engaging textbook guide provides a concise introduction to data structures and associated algorithms emphasis is placed on the fundamentals of data structures enabling the reader to quickly learn the key concepts and providing a strong foundation for later studies of more complex topics the coverage includes discussions on stacks queues lists using both arrays and links sorting and elementary binary trees heaps and hashing this content is also a natural continuation from the material provided in the separate springer title guide to java by the same authors topics and features reviews the preliminary concepts and introduces stacks and queues using arrays along with a discussion of array based lists examines linked lists the implementation of stacks and queues using references binary trees a range of varied sorting techniques heaps and hashing presents both primitive and generic data types in each chapter and makes use of contour diagrams to illustrate object oriented concepts includes chapter summaries and asks the reader questions to help them interact with the material contains numerous examples and illustrations and one or more complete program in every chapter provides exercises at the end of each chapter as well as solutions to selected exercises and a glossary of important terms this clearly written work is an ideal classroom text for a second semester course in programming using

the java programming language in preparation for a subsequent advanced course in data structures and algorithms the book is also eminently suitable as a self study guide in either academe or industry

this practical text contains fairly traditional coverage of data structures with a clear and complete use of algorithm analysis and some emphasis on file processing techniques as relevant to modern programmers it fully integrates oo programming with these topics as part of the detailed presentation of oo programming itself chapter topics include lists stacks and queues binary and general trees graphs file processing and external sorting searching indexing and limits to computation for programmers who need a good reference on data structures

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