Object Oriented Data Structures

Nell B. Dale

Object Oriented Data Structures:

    Object-Oriented Data Structures Using Java Dale,Daniel T. Joyce,Chip Weems,2016-09 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   <u>C++</u> Saumyendra Sengupta,Carl P. Korobkin,1994-03-11 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   **Objects, Abstraction, Data Structures and Design** Elliot B. Koffman,Paul A. T. Wolfgang,2005-10-20 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   <u>Object Oriented Data Structures Using Java</u> Nell B. Dale,2005   *An Object-oriented Introduction to Data Structures Using Eiffel* Richard S. Wiener,1997 Guide to the object oriented programming language   **Object-Oriented Data Structures Using Java, 3rd Edition** Dale,2011 Continuing the success of the popular second edition the updated and revised Object Oriented Data Structures Using Java Third Edition is sure to be an essential resource for students learning data structures using the Java programming language It presents traditional data

structures and object oriented topics with an emphasis on problem solving theory and software engineering principles Beginning early and continuing throughout the text the authors introduce and expand upon the use of many Java features including packages interfaces abstract classes inheritance and exceptions Numerous case studies provide readers with real world examples and demonstrate possible solutions to interesting problems The authors lucid writing style guides readers through the rigor of standard data structures and presents essential concepts from logical applications and implementation levels Key concepts throughout the Third Edition have been clarified to increase student comprehension and retention and end of chapter exercises have been updated and modified New and Key Features to the Third Edition Includes the use of generics throughout the text providing the dual benefits of allowing for a type safe use of data structures plus exposing students to modern approaches This text is among the first data structures textbooks to address the topic of concurrency and synchonization which are growing in the importance as computer systems move to using more cores and threads to obtain additional performance with each new generation Concurrency and synchonization are introduced in the new Section 5 7 where it begins with the basics of Java threads Provides numerous case studies and examples of the problem solving process Each case study includes problem description an analysis of the problem input and required output and a discussion of the appropriate data structures to use Expanded chapter exercises allow you as the instructor to reinforce topics for your students using both theoretical and practical questions Chapters conclude with a chapter summary that highlights the most important topics of the chapter and ties together related topics Instructor Resources Answers to the exercises in the text Glossary of terms PowerPoint Lecture Outlines Test bank **Data Structures and Algorithms with Object-Oriented Design Patterns in C++** Bruno R. Preiss,1999 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 **Object Oriented Data Structures** K. S. Easwarakumar,2000-12-01 *Object-oriented Data Structures Using Java* Nell B. Dale,Daniel T. Joyce,Chip Weems,2006 Data Structures Theory of Computation **Data Structures and Algorithms** John Beidler,2012-12-06 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 Web *Data Structures* Sesh Venugopal,2002

Object-Oriented Data Structures Using Java Nell Dale,Daniel T. Joyce,Chip Weems,2016-09-01 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 and Algorithms** Bruno R. Preiss,2000   **Data Structures, Algorithms, and Object-oriented Programming** Gregory L. Heileman,1996   *Object-Oriented Data Structures Using Java, 4th Edition* Dale,2016 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 & Other Objects Using Java** Michael Main,1999 In this book author Michael Main takes a gentle approach to the data structures course in Java The text offers an early self contained review of object oriented programming and Java to give students a firm grasp of key concepts and allows students with a variety of backgrounds to adjust easily to the course This book offers a flexibility that gives professors such options as emphasizing object oriented programming covering recursion and sorting early or accelerating the pace of the course Main s book meets the needs of professors searching for a text that balances object oriented programming and data structures with Java   *Index Data Structures in Object-Oriented Databases* Thomas A. Mueck,Martin L. Polaschek,2012-12-06 Object oriented database management systems OODBMS are used to imple ment and maintain large object databases on persistent storage Regardless whether the underlying database model follows the object oriented the rela tional or the object relational paradigm a key feature of any DBMS product is content based access to data sets On the one hand this feature provides user friendly query interfaces based on predicates to describe the desired data On the other hand it poses challenging questions regarding DBMS design and implementation as well as the application development process on top of the DBMS The reason for the latter is that the actual query performance depends on a technically meaningful use of access support mechanisms In particular if chosen and applied properly such a mechanism speeds up the execution of predicate based queries In the object oriented world such queries may involve arbitrarily complex terms referring to inheritance hierarchies and aggregation paths These features are attractive at the application level however they increase the complexity of appropriate access support mechanisms which are known to be technically non trivial in the relational world   *Object-oriented C++ Data Structures for Real Programmers* Jan L. Harrington,2002 Data structures play a key role in any serious development project determining how the program acquires stores updates and processes its in memory data Many of the basic techniques for constructing and governing access to data structures are well documented but most are structured programming techniques that do not translate well in an object oriented environment Object Oriented C Data Structures for Real Programmers corrects this imbalance teaching experienced C and Java developers the most effective methods for designing and implementing highly functional data structures in any type of object oriented programming effort The first part of the book introduces the various approaches focusing on the purposes for which each is most suited From there the author examines advanced functionality

that can be achieved in a number of ways helping readers choose and apply the optimal technique Key Features Advanced coverage from an accomplished developer and programming author Written explicitly for experienced object oriented programmers Helps you choose the best way to build the desired functionality then provides the instruction you need to do it Covers all major data structure approaches including arrays vectors lists stacks and queues Explains how to achieve a wide range of functionality including data sorting searching hashing dictionaries and indexes *Data Structures and Software Development in an Object-oriented Domain* Jean-Paul Tremblay,Grant A. Cheston,2003 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 <u>Data Structures and Algorithms with Object-oriented Design Patterns in C♯</u> Bruno R. Preiss,2001

Whispering the Techniques of Language: An Psychological Journey through **Object Oriented Data Structures**

In a digitally-driven earth wherever displays reign great and instant connection drowns out the subtleties of language, the profound strategies and emotional nuances hidden within phrases frequently move unheard. However, nestled within the pages of **Object Oriented Data Structures** a interesting fictional treasure pulsating with fresh thoughts, lies an exceptional journey waiting to be undertaken. Composed by an experienced wordsmith, this charming opus attracts viewers on an introspective journey, lightly unraveling the veiled truths and profound influence resonating within the very cloth of each and every word. Within the mental depths of this emotional evaluation, we can embark upon a heartfelt exploration of the book is core themes, dissect its interesting writing type, and yield to the effective resonance it evokes heavy within the recesses of readers hearts.

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