

Object Oriented Data Structures

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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

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 synchronization 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 synchronization 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

data structures theory of computation

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

create sound software designs with data structures that use modern object oriented design patterns author bruno preiss presents the fundamentals of data structures and algorithms from a modern object oriented perspective the text promotes object oriented design using java and illustrates the use of the latest object oriented design patterns virtually all the data structures are discussed in the context of a single class hierarchy this framework clearly shows the relationships between data structures and illustrates how polymorphism and inheritance can be used effectively key features of the text all data structures are presented using a common framework this shows the

relationship between the data structures and how they are implemented object oriented design patterns are used to demonstrate how a good design fits together and transcends the problem at hand a single java software design is used throughout the text to provide a better understanding of the operation of complicated data structures just in time presentation of mathematical analysis techniques introduces students to mathematical concepts as needed visit the text s site a comprehensive web site is available for users of the text at wiley.com/college/preiss the site includes the book a hypertext version of the complete book links to the java source code all the program examples from the text opus5 package a java package comprised of all the source code from the text documentation source code documentation demo applets various java applets that illustrate data structures and algorithms from the text archive jar format archive of the source code from the text front matter table of contents and preface solutions manual password required errata

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 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 constitutes the refereed proceedings of the first international symposium on visual computing isvc 2005 held in lake tahoe nv usa in december 2005 the 33 revised full papers and 26 poster papers presented together with 5 keynote presentations and 1 invited talk were carefully reviewed and selected from 110 submissions the papers are rounded off by 32 presentations held at seven special tracks the papers cover the four main areas of visual computing vision graphics visualization and virtual reality topics addressed are computer graphics medical imaging computer vision methods for ambient intelligence virtual reality and medicine pattern analysis and recognition applications in biometrics visualization mediated reality visual surveillance in challenging environments low level vision encoding and compression segmentation

recognition and reconstruction motion text extraction and retrieval intelligent vehicles and autonomous navigation and visualization techniques in geophysical science

this three volume set constitutes the refereed proceedings of the international conference on computational science and its applications these volumes feature outstanding papers that present a wealth of original research results in the field of computational science from foundational issues in computer science and mathematics to advanced applications in almost all sciences that use computational techniques

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

patterns domain driven design ddd and test driven development tdd enable architects and developers to create systems that are powerful robust and maintainable now there s a comprehensive practical guide to leveraging all these techniques primarily in microsoft net environments but the discussions are just as useful for java developers drawing on seminal work by martin fowler patterns of enterprise application architecture and eric evans domain driven design jimmy nilsson shows how to create real world architectures for any net application nilsson illuminates each principle with clear well annotated code examples based on c 1 1 and 2 0 his examples and discussions will be valuable both to c developers and those working with other net languages and any databases even with other platforms such as j2ee coverage includes quick primers on patterns tdd and refactoring using architectural techniques to improve software quality using domain models to support business rules and validation applying enterprise patterns to provide persistence support via nhibernate planning effectively for the presentation layer and ui testing designing for dependency injection aspect orientation and other new paradigms

guide to the object oriented programming language

geographic information systems gis have been experiencing a steady and unprecedented growth in terms of general interest theory development and new applications in the last decade or so gis is an inter disciplinary field that brings together many diverse areas such as computer science geography cartography engineering and urban planning database issues in geographic information systems approaches several important topics in gis from a database perspective database management has a central role to play in most computer based information systems and is expected to have an equally important role to play in managing information in gis as well existing database technology however focuses on the alphanumeric data that are required in business applications gis like many other application areas

requires the ability to handle spatial as well as alphanumeric data this requires new innovations in data management which is the central theme of this monograph the monograph begins with an overview of different application areas and their data and functional requirements next it addresses the following topics in the context of gis representation and manipulation of spatial data data modeling indexing and query processing future research directions are outlined in each of the above topics the last chapter discusses issues that are emerging as important areas of technological innovations in gis database issues in geographic information systems is suitable as a secondary text for a graduate level course on geographic information systems database systems or cartography and as a reference for researchers and practitioners in industry

the three volume set lncs 2667 lncs 2668 and lncs 2669 constitutes the refereed proceedings of the international conference on computational science and its applications iccsa 2003 held in montreal canada in may 2003 the three volumes present more than 300 papers and span the whole range of computational science from foundational issues in computer science and mathematics to advanced applications in virtually all sciences making use of computational techniques the proceedings give a unique account of recent results in computational science

customer driven manufacturing is the key concept for the factory of the future the markets for consumer goods are nowadays marked by an increase in variety while at the same time showing steadily decreasing product life cycles in addition tailoring the product to the customer s needs is becoming increasingly important in quality improvement these trends are resulting in production in small batches driven by customer orders customer driven manufacturing adopts a design oriented approach splitting the realisation of customer driven manufacturing into three main steps firstly you must understand the primary process of your business the second step is to analyse and re design the management and control of the organisation finally the organisation s information system must be analysed and redesigned

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 second edition of geographic information systems builds on the strengths of the first and incorporates important recent advances in gis development and major new socioeconomic datasets including new census data martin presents an accessible introduction to the history principles and techniques of gis with a unique focus on socioeconomic applications this non technical volume addresses the needs of students and professionals who must understand and use gis for the first time

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

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