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**Wu Sahni**



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**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 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 Instructor Resources Answers to the exercises in the text Glossary of terms PowerPoint Lecture Outlines Test bank

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**Data Structures & Other Objects Using Java** Michael Main, 2003 This book takes a gentle approach to the data structures course in Java It offers an early self contained review of object oriented programming and Java to give students a firm grasp of key concepts and allows those experienced in other languages to adjust easily The book also offers a flexibility which allows professors such options as emphasizing object oriented programming covering recursion and sorting early or accelerating the pace of

the course This title meets the needs of professors searching for a book to balance the introduction of object oriented programming and data structures with Java The new edition has been updated to cover Java 1.3 and includes new appendices with more reference material on such topics as Java collections It also features increased coverage of object oriented programming and inheritance New exercises on radix sort and shell sort have also been added

**Data Structures** Sesh Venugopal, 2002

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

**Data Structures and Algorithms with Object-Oriented Design Patterns in Java** Bruno R. Preiss, 2000

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 Web Site A comprehensive web site is available for users of the text at [www.wiley.com/college/preiss](http://www.wiley.com/college/preiss) The site includes The Web 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

**Data Structures Using C** Samir Kumar Bandyopadhyay,2009 Data Structures Using C brings together a first course on data structures and the complete programming techniques enabling students and professionals implement abstract structures and structure their ideas to suit different needs This book elaborates the standard data structures using C as the basic programming tool It is designed for a one semester course on Data Structures **Java Methods** Maria Litvin,Gary Litvin,2001 **Data Structure Using C++** N. Kashivishwanath,2007

*Data Structures and Other Objects Using Java* Michael Main,2003 This book takes a gentle approach to the data structures course in Java It offers an early self contained review of object oriented programming and Java to give students a firm grasp of key concepts and allows those experienced in other languages to adjust easily The book also offers a flexibility which allows professors such options as emphasizing object oriented programming covering recursion and sorting early or accelerating the pace of the course This title meets the needs of professors searching for a book to balance the introduction of object oriented programming and data structures with Java The new edition has been updated to cover Java 1.3 and includes new appendices with more reference material on such topics as Java collections It also features increased coverage of object oriented programming and inheritance New exercises on radix sort and shell sort have also been added

**"Data Structures, Algorithms and Applications in Java"** and **"Introduction to Object-Oriented Programming"** Wu Sahni,2002-08 *Data Structures and Algorithms in Java* Michael T. Goodrich,Roberto Tamassia,1998-01-23 Using a unique multimedia format for learning the fundamentals of data structures and algorithms this conceptually elegant and innovative text incorporates the object oriented design paradigm with Java as the implementation language The result is a learning experience that provides the fundamental intuition and analysis of each structure studied A Web site complete with Java applications and applets accompanies the text Includes CD ROM with The Microsoft Visual J programming environment

**Database and Expert Systems Applications** A. Hameurlain,A. Min Tjoa,1997-08-20 This book contains the refereed proceedings of the 8th International Conference on Database and Expert Systems Applications DEXA 97 held in Toulouse France September 1997 The 62 revised full papers presented in the book together with three invited contributions were selected from a total of 159 submissions The papers are organized in sections on modeling object oriented databases active

and temporal aspects images integrity constraints multimedia databases deductive databases and knowledge based systems allocation concepts data interchange digital libraries transaction concepts learning issues optimization and performance query languages maintenance federated databases uncertainty handling and qualitative reasoning and software engineering and reusable software

**Java Methods** Maria Litvin, Gary Litvin, 2015-02-15 This book offers a thorough introduction to the concepts and practices of object oriented programming in Java It also introduces the most common data structures and related algorithms and their implementations in the Java collections framework Chapters 1 14 follow the syllabus of the AP Computer Science in Java course They will prepare you well for the AP CS exam Chapters 15 18 on file input and output graphics graphical user interfaces and events handling in Java will give you a better sense of real world Java programming this material also makes case studies labs and exercises more fun Chapters 19 26 deal with more advanced data structures and algorithms Chapter 27 Design Patterns introduces more intricate aspects of object oriented design and serves as an introduction to design patterns The last chapter Computing in Context discusses creative responsible and ethical computer use

*Data Structures and Abstractions with Java* Frank M. Carrano, Timothy M. Henry, 2014-08-22 This is the eBook of the printed book and may not include any media website access codes or print supplements that may come packaged with the bound book Data Structures and Abstractions with Java is suitable for one or two semester courses in data structures CS 2 in the departments of Computer Science Computer Engineering Business and Management Information Systems This book is also useful for programmers and software engineers interested in learning more about data structures and abstractions This is the most student friendly data structures text available that introduces ADTs in individual brief chapters each with pedagogical tools to help students master each concept Using the latest features of Java this unique object oriented presentation makes a clear distinction between specification and implementation to simplify learning while providing maximum classroom flexibility Teaching and Learning Experience This book will provide a better teaching and learning experience for you and your students It will help Aid comprehension and facilitate teaching with an approachable format and content organization Material is organized into small segments that focus a reader s attention and provide greater instructional flexibility Support learning with student friendly pedagogy In text and online features help students master the material

**Java Structures** Duane A. Bailey, 1999

**Membrane Computing** David Corne, Pierluigi Frisco, Gheorghe Păun, Grzegorz Rozenberg, Arto Salomaa, 2009-01-15 This volume contains a selection of papers presented at the 9th Workshop on Membrane Computing WMC9 which took place in Edinburgh UK during July 28 31 2008 The first three workshops on membrane computing were organized in Curtea de Argeș Romania they took place in August 2000 with the proceedings published in Lecture Notes in Computer Science volume 2235 in August 2001 with a selection of papers published as a special issue of Fun menta Informaticae volume 49 numbers 1 3 2002 and in August 2002 with the proceedings published in Lecture Notes in Computer Science volume 2597 The next five workshops were organized in

Tarragona Spain in July 2003 in Milan Italy in June 2004 in Vienna Austria in July 2005 in Leiden The Netherlands in July 2006 and in Thessaloniki Greece in June 2007 with the proceedings published as volumes 2933 3365 3850 4361 and 4860 of Lecture Notes in Computer Science Data Structures and Algorithms in Java, International Student Version Michael T. Goodrich, Roberto Tamassia, Michael H. Goldwasser, 2014-06-16 The design and analysis of efficient data structures has long been recognized as a key component of the Computer Science curriculum Goodrich and Tomassia s approach to this classic topic is based on the object oriented paradigm as the framework of choice for the design of data structures For each ADT presented in the text the authors provide an associated Java interface Concrete data structures realizing the ADTs are provided as Java classes implementing the interfaces The Java code implementing fundamental data structures in this book is organized in a single Java package net datastructures This package forms a coherent library of data structures and algorithms in Java specifically designed for educational purposes in a way that is complimentary with the Java Collections Framework

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