
Data Structures And Other Objects Using C

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Data Structures & Other Objects Using C++ *Addison-Wesley Longman*

Data Structures and Other Objects Using C++ takes a gentle approach to the data structures course in C++. Providing an early, self-contained review of object-oriented programming and C++, this text gives students a firm grasp of key concepts and allows those experienced in another language to adjust easily. Flexible by design, professors have the option of emphasizing object-oriented programming, covering recursion and sorting early, or accelerating the pace of the course. Finally, a solid foundation in building and using abstract data types is also provided, along with an assortment of advanced topics such as B-trees for project building and graphs.

Data Structures and Other Objects Using Java *Addison-*

Wesley

Takes a gentle approach to learning data structures using the Java programming language. Providing an early, self-contained review of object-oriented programming and Java, this text gives readers a firm grasp of key concepts and allows those experienced in another language to adjust easily. It has a solid foundation in building and using abstract data types, along with an assortment of advanced topics such as B-trees for project building and graph. It incorporates Java 5.0 including the use of scanner class and generic data types (generics). MARKET: This book is if for anyone interested in learning how to write effective data structures using the Java language.

Data Structures & Other Objects Using C++ *Addison Wesley Publishing Company*

Where will you be ten years from now? How will a course in data structures help you? Perhaps you will be a software engineer writing large software in specialized areas such as computer graphics. The authors of such programs, today and in the future, require a ready knowledge of proven methods for representing data. For example, the graphics program that generated the cover of this book uses a collection of three-dimensional objects--and a programmer must use the knowledge of data structures to make decisions on how to represent such collections. As a programmer, you must also possess an unshakable understanding of fundamental programming techniques and algorithms to manipulate the data structures. The graphics program is again a good example, using recursion to generate beautiful fractal patterns, and using efficient sorting algorithms in

the process of removing hidden objects. With many accessible examples, this book provides the knowledge of data representations and algorithms in a way that will be immediately useful to you with C++. This book also focuses on foundational material that will continue to be useful to you over the next ten years and beyond. *Data Structures and Other Objects Using C++* provides: a balanced approach to data structures and object-oriented programming early, self-contained coverage of key C++ and object-oriented programming topics a solid foundation in specifying, designing, implementing, and using simple container classes, lists, stacks, queues, trees, and more accessible coverage of fundamental topics such as container classes, pointers and linked lists, time analysis, testing, recursion, searching and sorting extensive appendices that will make this book a valuable resource for years to come
0805374701B04062001

Data Structures and Other Objects Using Java *Prentice Hall*

Data Structures and Other Objects Using Java is a gradual, "just-in-time" introduction to Data Structures for a CS2 course. Each chapter provides a review of the key aspects of object-oriented programming and a syntax review, giving students the foundation for understanding significant programming concepts. With this framework they are able to accomplish writing functional data structures by using a five-step method for working with data types; understanding the data type abstractly, writing a specification, using the data type, designing and implementing the data type, and analyzing the implementation. Students learn to think analytically about the efficiency and

efficacy of design while gaining exposure to useful Java classes libraries.

Data Structures & Other Objects Using C++ *Addison-Wesley*

Surprised by Hope helps you to grasp the full, breathtaking hope Jesus offers the world and its implications for how you live. This ISO video download of Session 1, 'Hope for the World,' teaches that God wants his people to experience hope for today and share it with the world.

Data Structures & Other Objects Using Java *Addison Wesley Longman*

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.

Object-Oriented Data Structures Using Java *Jones & Bartlett Publishers*

Data Structures & Theory of Computation

Objects, Abstraction, Data Structures and Design

Using C++ *John Wiley & Sons*

"It is a practical book with emphasis on real problems the programmers encounter daily." --Dr. Tim H. Lin, California State Polytechnic University, Pomona "My overall impressions of this book are excellent. This book emphasizes the three areas I want: advanced C++, data structures and the STL and is much stronger in these areas than other competing books." --Al Verbanec, Pennsylvania State University "Think, Then Code" When it comes to writing code, preparation is crucial to success. Before you can begin writing successful code, you need to first work through your options and analyze the expected performance of your design. That's why Elliot Koffman and Paul Wolfgang's *Objects, Abstraction, Data Structures, and Design: Using C++* encourages you to Think, Then Code, to help you make good decisions in those critical first steps in the software design process. The text helps you thoroughly understand basic data structures and algorithms, as well as essential design skills and principles. Approximately 20 case studies show you how to apply those skills and principles to real-world problems. Along the way, you'll 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.

Key Features *

- * Object-oriented approach.
- * Data structures are presented in the context of software design principles.
- * 20 case studies reinforce good programming practice.
- * Problem-solving methodology used throughout...
- "Think, then code!"
- * Emphasis on the C++ Standard Library.
- * Effective pedagogy.

Data Structures and Other Objects**A Second Course in Computer Science****C++****Object-Oriented Data Structures** *Springer*

This book provides a broad coverage of fundamental and advanced concepts of data structures and algorithms. The material presented includes a treatment of elementary data structures such as arrays, lists, stacks, and trees, as well as newer structures that have emerged to support the processing of multidimensional or spatial data files. These newer structures and algorithms have received increasing attention in recent years in conjunction with the rapid growth in computer-aided design, computer graphics, and related fields in which multidimensional data structures are of great interest. Our main objective is to mesh the underlying concepts with application examples that are of practical use and are timely in their implementations. To this end, we have used mainly the Abstract Data Structure (or Abstract Data Type (ADT)) approach to define structures for data and operations. Object-oriented programming (OOP) methodologies are employed to implement these ADT concepts. In OOP, data and operations for an ADT are combined into a single entity (object). ADTs are used to specify the objects—arrays, stacks, queues, trees, and graphs. OOP allows the programmer to more closely mimic the real-world applications. This OOP is more structured and modular than previous attempts. OOP has become de facto state-of-the-art in the 1990s.

Serialization and Persistent Objects

Turning Data Structures into Efficient Databases *Springer Science & Business*

Recently, the pressure for fast processing and efficient storage of large data with complex relations increased beyond the capability of traditional databases. Typical examples include iPhone applications, computer aided design – both electrical and mechanical, biochemistry applications, and incremental compilers. Serialization, which is sometimes used in such situations is notoriously tedious and error prone. In this book, Jiri Soukup and Petr Macháček show in detail how to write programs which store their internal data automatically and transparently to disk. Together with special data structure libraries which treat relations among objects as first-class entities, and with a UML class-diagram generator, the core application code is much simplified. The benchmark chapter shows a typical example where persistent data is faster by the order of magnitude than with a traditional database, in both traversing and accessing the data. The authors explore and exploit advanced features of object-oriented languages in a depth hardly seen in print before. Yet, you as a reader need only a basic knowledge of C++, Java, C#, or Objective C. These languages are quite similar with respect to persistency, and the authors explain their differences where necessary. The book targets professional programmers working on any industry applications, it teaches you how to design your own persistent data or how to use the existing packages efficiently. Researchers in areas like language design, compiler construction, performance evaluation, and no-SQL applications will find a wealth of novel ideas and valuable implementation tips. Under <http://www.codefarms.com/book>, you

will find a blog and other information, including a downloadable zip file with the sources of all the listings that are longer than just a few lines – ready to compile and run.

Data Structures and Other Objects

A Second Course in Computer Science *Benjamin-Cummings Publishing Company*

A quick and easy bridge from traditional paradigms to object-oriented methodologies. The book contains a solid presentation of the principles of software engineering and good program design, presents each ADT (abstract data type) in a consistent, modern fashion, demonstrates run-time analysis and provides many new and interesting examples and short case studies.

Data Structures and Algorithms in Java *John Wiley & Sons*

The design and analysis of efficient data structures has long been recognized as a key component of the Computer Science curriculum. Goodrich, Tomassia and Goldwasser'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.

Data Structures Using C++ *Cengage Learning*

Now in its second edition, D.S. Malik brings his proven approach to C++ programming to the CS2 course. Clearly written with the student in mind, this text focuses on Data Structures and includes advanced topics in C++ such as Linked Lists and the Standard Template Library (STL). The text features abundant visual diagrams, examples, and extended Programming Examples, all of which serve to illuminate difficult concepts. Complete programming code and clear display of syntax, explanation, and example are used throughout the text, and each chapter concludes with a robust exercise set. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Fundamentals of OOP and Data Structures in Java

Cambridge University Press

A book for an undergraduate course on data structures which integrates the concepts of object-oriented programming and GUI programming.

Valuepack

C++ How to Program: United States Edition with Data Structures and Other Objects Using Java: International Edition and UML Distilled: A Brief Guide to the Standard Object Modeling Language *Prentice Hall*

Data Structures Via C++

Objects by Evolution *Oxford University Press on Demand*

Bringing together the fundamental topics of a traditional introductory data structures course and the current world of C++ and object-oriented programming, Data Structures via C++: Objects by Evolution offers an evolutionary approach to the subject. It combines a sound pedagogy for teaching data structures at the introductory (CS2) level with modern ideas in software engineering and object-oriented programming. The book introduces students (and instructors) to C++ and object-oriented programming using a "just-in-time" approach which leads readers from traditional techniques to more current ideas. This text emphasizes abstraction by introducing each new data structure first as an abstract data type (ADT), then discussing the external interface, and following with implementation. The primary data structures included are lists, stacks, queues, tables, trees, and graphs. All examples are developed using C++, and advanced features are introduced as needed or just-in-time. Berman's real-world examples, such as simulation of an Ethernet, robot navigation, and expression processing, help to illustrate use of data structures in concrete terms. C++ language features and object-oriented concepts, both very useful in solving problems encountered in the course, are also covered. Techniques of object-oriented programming are introduced, with a strong emphasis on encapsulation and detailed coverage of inheritance. An overview of software engineering is presented, including discussion of the software life-cycle, design, testing, assertions and loop invariants, and abstract data types. All supporting

materials will be available to faculty and students via the World Wide Web at: <http://www.rowan.edu/evolve>.

Learn Data Structures and Algorithms with Golang

Level up your Go programming skills to develop faster and more efficient code *Packt Publishing Ltd*

Explore Golang's data structures and algorithms to design, implement, and analyze code in the professional setting Key Features Learn the basics of data structures and algorithms and implement them efficiently Use data structures such as arrays, stacks, trees, lists and graphs in real-world scenarios Compare the complexity of different algorithms and data structures for improved code performance Book Description Golang is one of the fastest growing programming languages in the software industry. Its speed, simplicity, and reliability make it the perfect choice for building robust applications. This brings the need to have a solid foundation in data structures and algorithms with Go so as to build scalable applications. Complete with hands-on tutorials, this book will guide you in using the best data structures and algorithms for problem solving. The book begins with an introduction to Go data structures and algorithms. You'll learn how to store data using linked lists, arrays, stacks, and queues. Moving ahead, you'll discover how to implement sorting and searching algorithms, followed by binary search trees. This book will also help you improve the performance of your applications by stringing data types and implementing hash structures in algorithm design. Finally, you'll be able to apply traditional data structures to solve real-world problems. By the

end of the book, you'll have become adept at implementing classic data structures and algorithms in Go, propelling you to become a confident Go programmer. What you will learn Improve application performance using the most suitable data structure and algorithm Explore the wide range of classic algorithms such as recursion and hashing algorithms Work with algorithms such as garbage collection for efficient memory management Analyze the cost and benefit trade-off to identify algorithms and data structures for problem solving Explore techniques for writing pseudocode algorithm and ace whiteboard coding in interviews Discover the pitfalls in selecting data structures and algorithms by predicting their speed and efficiency Who this book is for This book is for developers who want to understand how to select the best data structures and algorithms that will help solve coding problems. Basic Go programming experience will be an added advantage.

The Object of Data Abstraction and Structures Using Java *Addison-Wesley*

The Object of Data Abstraction and Structures Using Java is the perfect book for your data structures course. It presents traditional data structures topics with a distinct object-oriented flavor that offers students useful approaches for data structure design and implementation.

Data Structures, Algorithms, and Object-oriented Programming *McGraw-Hill Science, Engineering & Mathematics*

Compact Data Structures *Cambridge University Press*

This practical, applications-oriented book describes essential tools for efficiently handling massive amounts of data.

Data Structures & Their Algorithms *Addison-Wesley*

Using only practically useful techniques, this book teaches methods for organizing, reorganizing, exploring, and retrieving data in digital computers, and the mathematical analysis of those techniques. The authors present analyses that are relatively brief and non-technical but illuminate the important performance characteristics of the algorithms. Data Structures and Their Algorithms covers algorithms, not the expression of algorithms in the syntax of particular programming languages. The authors have adopted a pseudocode notation that is readily understandable to programmers but has a simple syntax.

Advanced R *CRC Press*

An Essential Reference for Intermediate and Advanced R Programmers Advanced R presents useful tools and techniques for attacking many types of R programming problems, helping you avoid mistakes and dead ends. With more than ten years of experience programming in R, the author illustrates the elegance, beauty, and flexibility at the heart of R. The book develops the necessary skills to produce quality code that can be used in a variety of circumstances. You will learn: The fundamentals of R, including standard data types and functions Functional programming as a useful framework for solving wide classes of problems The positives and negatives of metaprogramming How to write fast, memory-efficient code This book not only helps current R users become R programmers but also shows existing

programmers what's special about R. Intermediate R programmers can dive deeper into R and learn new strategies for solving diverse problems while programmers from other languages can learn the details of R and understand why R works the way it does.

Data Structures and Algorithm Analysis in Java, Third Edition *Courier Corporation*

Comprehensive treatment focuses on creation of efficient data structures and algorithms and selection or design of data structure best suited to specific problems. This edition uses Java as the programming language.

Data Structures & Other Objects Using C++ 2e

The Design of Dynamic Data Structures *Springer Science & Business Media*

In numerous computer applications there is a need of storing large sets of objects in such a way that some questions about those objects can be answered efficiently. Data structures that store such sets of objects can be either static (built for a fixed set of objects) or dynamic (insertions of new objects and deletions of existing objects can be performed). Especially for more complex searching problems as they arise in such fields as computational geometry, database design and computer graphics, only static data structures are available. This book aims at remedying this lack of flexibility by providing a number of general techniques for turning static data structures for searching problems into dynamic structures. Although the approach is basically

theoretical, the techniques offered are often practically applicable. The book is written in such a way that it is readable for those who have some elementary knowledge of data structures and algorithms. Although this monograph was first published in 1983, it is still unique as a general treatment of methods for constructing dynamic data structures.

Combinatorial Maps

Efficient Data Structures for Computer Graphics and Image Processing *CRC Press*

A Versatile Framework for Handling Subdivided Geometric Objects Combinatorial Maps: Efficient Data Structures for Computer Graphics and Image Processing gathers important ideas related to combinatorial maps and explains how the maps are applied in geometric modeling and image processing. It focuses on two subclasses of combinatorial maps: n-Gmaps and n-maps. Suitable for researchers and graduate students in geometric modeling, computational and discrete geometry, computer graphics, and image processing and analysis, the book presents the data structures, operations, and algorithms that are useful in handling subdivided geometric objects. It shows how to study data structures for the explicit representation of subdivided geometric objects and describes operations for handling the structures. The book also illustrates results of the design of data structures and operations.

Object-Orientation, Abstraction, and Data Structures Using Scala *CRC Press*

Praise for the first edition: "The well-written, comprehensive book...[is] aiming to become a de facto reference for the language and its features and capabilities. The pace is appropriate for beginners; programming concepts are introduced progressively through a range of examples and then used as tools for building applications in various domains, including sophisticated data structures and algorithms...Highly recommended. Students of all levels, faculty, and professionals/practitioners. —D. Papamichail, University of Miami in CHOICE Magazine Mark Lewis' Introduction to the Art of Programming Using Scala was the first textbook to use Scala for introductory CS courses. Fully revised and expanded, the new edition of this popular text has been divided into two books. Object-Orientation, Abstraction, and Data Structures Using Scala, Second Edition is intended to be used as a textbook for a second or third semester course in Computer Science. The Scala programming language provides powerful constructs for expressing both object orientation and abstraction. This book provides students with these tools of object orientation to help them structure solutions to larger, more complex problems, and to expand on their knowledge of abstraction so that they can make their code more powerful and flexible. The book also illustrates key concepts through the creation of data structures, showing how data structures can be written, and the strengths and weaknesses of each one. Libraries that provide the functionality needed to do real programming are also explored in the text, including GUIs, multithreading, and networking. The book is filled with end-of-chapter projects and exercises, and the authors have also posted a number of different supplements on

the book website. Video lectures for each chapter in the book are also available on YouTube. The videos show construction of code from the ground up and this type of "live coding" is invaluable for learning to program, as it allows students into the mind of a more experienced programmer, where they can see the thought processes associated with the development of the code. About the Authors Mark Lewis is an Associate Professor at Trinity University. He teaches a number of different courses, spanning from first semester introductory courses to advanced seminars. His research interests included simulations and modeling, programming languages, and numerical modeling of rings around planets with nearby moons. Lisa Lacher is an Assistant Professor at the University of Houston, Clear Lake with over 25 years of professional software development experience. She teaches a number of different courses spanning from first semester introductory courses to graduate level courses. Her research interests include Computer Science Education, Agile Software Development, Human Computer Interaction and Usability Engineering, as well as Measurement and Empirical Software Engineering.

Fundamentals of Computer Programming with C#

The Bulgarian C# Book *Faber Publishing*

The free book "Fundamentals of Computer Programming with C#" is a comprehensive computer programming tutorial that teaches programming, logical thinking, data structures and algorithms, problem solving and high quality code with lots of examples in C#. It starts with the first steps in programming and

software development like variables, data types, conditional statements, loops and arrays and continues with other basic topics like methods, numeral systems, strings and string processing, exceptions, classes and objects. After the basics this fundamental programming book enters into more advanced programming topics like recursion, data structures (lists, trees, hash-tables and graphs), high-quality code, unit testing and refactoring, object-oriented principles (inheritance, abstraction, encapsulation and polymorphism) and their implementation the C# language. It also covers fundamental topics that each good developer should know like algorithm design, complexity of algorithms and problem solving. The book uses C# language and Visual Studio to illustrate the programming concepts and explains some C# / .NET specific technologies like lambda expressions, extension methods and LINQ. The book is written by a team of developers lead by Svetlin Nakov who has 20+ years practical software development experience. It teaches the major programming concepts and way of thinking needed to become a good software engineer and the C# language in the meantime. It is a great start for anyone who wants to become a skillful software engineer. The books does not teach technologies like databases, mobile and web development, but shows the true way to master the basics of programming regardless of the languages, technologies and tools. It is good for beginners and intermediate developers who want to put a solid base for a successful career in the software engineering industry. The book is accompanied by free video lessons, presentation slides and mind maps, as well as hundreds of exercises and live examples. Download the free C# programming book, videos, presentations

and other resources from <http://introprogramming.info>. Title: Fundamentals of Computer Programming with C# (The Bulgarian C# Programming Book) ISBN: 9789544007737 ISBN-13: 978-954-400-773-7 (9789544007737) ISBN-10: 954-400-773-3 (9544007733) Author: Svetlin Nakov & Co. Pages: 1132 Language: English Published: Sofia, 2013 Publisher: Faber Publishing, Bulgaria Web site: <http://www.introprogramming.info> License: CC-Attribution-Share-Alike Tags: free, programming, book, computer programming, programming fundamentals, ebook, book programming, C#, CSharp, C# book, tutorial, C# tutorial; programming concepts, programming fundamentals, compiler, Visual Studio, .NET, .NET Framework, data types, variables, expressions, statements, console, conditional statements, control-flow logic, loops, arrays, numeral systems, methods, strings, text processing, StringBuilder, exceptions, exception handling, stack trace, streams, files, text files, linear data structures, list, linked list, stack, queue, tree, balanced tree, graph, depth-first search, DFS, breadth-first search, BFS, dictionaries, hash tables, associative arrays, sets, algorithms, sorting algorithm, searching algorithms, recursion, combinatorial algorithms, algorithm complexity, OOP, object-oriented programming, classes, objects, constructors, fields, properties, static members, abstraction, interfaces, encapsulation, inheritance, virtual methods, polymorphism, cohesion, coupling, enumerations, generics, namespaces, UML, design patterns, extension methods, anonymous types, lambda expressions, LINQ, code quality, high-quality code, high-quality classes, high-quality methods, code formatting, self-documenting code, code refactoring, problem solving, problem solving methodology,

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Clean Code

A Handbook of Agile Software Craftsmanship *Pearson Education*

Looks at the principles and clean code, includes case studies showcasing the practices of writing clean code, and contains a list of heuristics and "smells" accumulated from the process of writing clean code.

Data Structures and Algorithms in Python *Wiley Global Education*

Based on the authors' market leading data structures books in Java and C++, this textbook offers a comprehensive, definitive introduction to data structures in Python by authoritative authors. Data Structures and Algorithms in Python is the first authoritative object-oriented book available for the Python data structures course. Designed to provide a comprehensive introduction to data structures and algorithms, including their design, analysis, and implementation, the text will maintain the same general structure as Data Structures and Algorithms in Java and Data Structures and Algorithms in C++.

Data Structures & Algorithms in Swift (Fourth Edition)

Implementing Practical Data Structures with Swift

Learn Data Structures & Algorithms in Swift! Data structures and algorithms form the basis of computer programming and are the

starting point for anyone looking to become a software engineer. Choosing the proper data structure and algorithm involves understanding the many details and trade-offs of using them, which can be time-consuming to learn - and confusing. This is where this book, *Data Structures & Algorithms in Swift*, comes to the rescue! In this book, you'll learn the nuts and bolts of how fundamental data structures and algorithms work by using easy-to-follow tutorials loaded with illustrations; you'll also learn by working in Swift playground code. Who This Book Is For This book is for developers who know the basics of Swift syntax and want a better theoretical understanding of what data structures and algorithms are to build more complex programs or ace a whiteboard interview. Topics Covered in *Data Structures & Algorithms in Swift* *Basic data structures and algorithms, including stacks, queues and linked lists. *How protocols can be used to generalize algorithms. *How to leverage the algorithms of the Swift standard library with your own data structures. *Trees, tries and graphs. *Building algorithms on top of other primitives. *A complete spectrum of sorting algorithms from simple to advanced. *How to think about algorithmic complexity. *Finding shortest paths, traversals, subgraphs and much more. After reading this book, you'll have a solid foundation on data structures and algorithms and be ready to solve more complex problems in your apps elegantly.

Data Structure Techniques *Addison Wesley Publishing Company*

Problem Solving with Algorithms and Data Structures

Using Python *Franklin Beedle & Assoc*

THIS TEXTBOOK is about computer science. It is also about Python. However, there is much more. The study of algorithms and data structures is central to understanding what computer science is all about. Learning computer science is not unlike learning any other type of difficult subject matter. The only way to be successful is through deliberate and incremental exposure to the fundamental ideas. A beginning computer scientist needs practice so that there is a thorough understanding before continuing on to the more complex parts of the curriculum. In addition, a beginner needs to be given the opportunity to be successful and gain confidence. This textbook is designed to serve as a text for a first course on data structures and algorithms, typically taught as the second course in the computer science curriculum. Even though the second course is considered more advanced than the first course, this book assumes you are beginners at this level. You may still be struggling with some of the basic ideas and skills from a first computer science course and yet be ready to further explore the discipline and continue to practice problem solving. We cover abstract data types and data structures, writing algorithms, and solving problems. We look at a number of data structures and solve classic problems that arise. The tools and techniques that you learn here will be applied over and over as you continue your study of computer science.

Data Structures

Abstraction and Design Using Java

Programming in Lua *Roberto Ierusalimschy*

Authored by Roberto Ierusalimschy, the chief architect of the language, this volume covers all aspects of Lua 5---from the basics to its API with C---explaining how to make good use of its features and giving numerous code examples. (Computer Books)

Data Structures and Other Objects Using Java**Reactive Data Structures for Geographic Information Systems** *Oxford University Press, USA*

This work is the first to describe techniques for the storage and manipulation of geographic data at multiple scales and in an integrated manner, thus avoiding the redundancies of other techniques. The book opens with a general introduction to Geographic Information Systems. It then goes on to give an overview of the known spatial access methods and presents several new structures: multi-object BSP-tree, KD2B-tree, sphere-tree, BLG-tree, reactive BSP-tree, and reactive-tree. The reactive BSP-tree and reactive-tree are geometric structures which take multiple levels of detail into account. They are reactive data structures which form the basis of a seamless, scaleless, geographic database. The work goes on to describe two advanced GIS architecture types: the geographic relational extension and the object-oriented (OO) approach. Actual implementations are presented as well as theoretical discussion of the systems. GEO++ is based on the open research DBMS Postgres and realizes the geographic relational extension. In the OO programming language, Procol, persistent objects are introduced in order to combine the powerful OO modelling with

the database functionality required for GISs. An up-to-date reference for a rapidly developing field, the book will benefit all researchers and practitioners using or developing geographic information systems.

Data Structures and Algorithms in C++ *John Wiley & Sons*

An updated, innovative approach to data structures and algorithms Written by an author team of experts in their fields, this authoritative guide demystifies even the most difficult mathematical concepts so that you can gain a clear understanding of data structures and algorithms in C++. The unparalleled author team incorporates the object-oriented design paradigm using C++ as the implementation language, while also providing intuition and analysis of fundamental algorithms. Offers a unique multimedia format for learning the fundamentals of data structures and algorithms Allows you to visualize key analytic concepts, learn about the most recent insights in the field, and do data structure design Provides clear approaches for developing programs Features a clear, easy-to-understand writing style that breaks down even the most difficult mathematical concepts Building on the success of the first edition, this new version offers you an innovative approach to fundamental data structures and algorithms.

A Practical Introduction to Data Structures and Algorithm Analysis

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.