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Mark Allen Weiss



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Algorithms in C++, Parts 1-4 Sedgewick,1998

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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

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Data Structures & Problem Solving Using Java Mark Allen Weiss, 2006. This book provides a practical introduction to data structures from a viewpoint of abstract thinking and problem solving as well as the use of Java. It does this through what remains a unique approach that clearly separates each data structure's interface, how to use a data structure from its implementation, how to actually program that structure into different parts of the book. Part I: Tour of Java, Part II: Algorithms and Building Blocks, and Part III: Applications lay the groundwork by discussing basic concepts and tools and providing some practical examples, but implementation of data structures is not shown until Part IV: Implementations, forcing the reader to think about the functionality of the data structures before the hash table is implemented. The third edition of *Data Structures and Problem Solving Using Java* incorporates the enhancements of Java 5.0. It includes coverage of generic programming and content on the design of generic collection classes. This book is appropriate for readers who are familiar with basic Java programming concepts or are new to the language and want to learn how it treats data structures concepts.

Data Structures and Algorithm Analysis in C++ (Third Edition) Clifford A. Shaffer, 2020

FUNDAMENTALS OF DISCRETE MATHEMATICAL STRUCTURES, THIRD EDITION CHOWDHARY, K. R., 2015-01-02. This updated text, now in its Third Edition, continues to provide the basic concepts of discrete mathematics and its applications at an appropriate level of rigour. The text teaches mathematical logic, discusses how to work with discrete structures, analyzes combinatorial approach to problem solving, and develops an ability to create and understand mathematical models and algorithms essential for writing computer programs. Every concept introduced in the text is first explained from the point of view of mathematics, followed by its relation to Computer Science. In addition, it offers excellent coverage of graph theory, mathematical reasoning, foundational material on set theory, relations, and their computer representation, supported by a number of worked-out examples and exercises to reinforce the students' skill. Primarily intended for undergraduate students of Computer Science and Engineering and Information Technology, this text will also be useful for undergraduate and postgraduate students of Computer Applications. New to this Edition: Incorporates many new sections and subsections such as recurrence relations with constant coefficients, linear recurrence relations with and without constant coefficients, rules for counting and shorting, Peano axioms, graph connecting, graph scanning algorithm, lexicographic shorting chains, antichains, and order isomorphism, complemented lattices, isomorphic order

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Problem Solving with Algorithms and Data Structures Using Python, 3rd Edition Bradley N. Miller,David L. Ranum,Roman Yasinovskyy,2023

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Data Structures and Algorithms in Java, 3rd Ed Michael T. Goodrich,Roberto Tamassia,2008-05

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Data Structures and Algorithm Analysis in Java Mark Allen Weiss,2014-09-24

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Data Structures and Abstractions with Java Frank M. Carrano,2006 **Introduction to Algorithms** Thomas H. Cormen,Charles E. Leiserson,Ronald L. Rivest,Clifford Stein,2009-07-31 This edition has been revised and updated throughout It includes some new chapters It features improved treatment of dynamic programming and greedy algorithms as well as a new notion of edge based flow in the material on flow networks book cover **Data Structures and Algorithm Analysis in C++** Clifford A. Shaffer,2013 Laboratory Manual for Data Structures Ronald E. Prather,1990

Data Structures and Abstractions with Java, Global Edition Frank M. Carrano,Timothy M. Henry,2015-04-30 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 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 organisation Material is organised into small segments that focus a reader s attention and provide greater instructional flexibility Keep your course current with updated material Content is refreshed throughout the book to reflect the latest advancements and to refine the pedagogy All of the Java code is Java 8 compatible Support learning with student friendly pedagogy In text and online features help students master the material The full text downloaded to your computer With eBooks you can search for key concepts words and phrases make highlights and notes as you study share your notes with friends eBooks are downloaded to your computer and accessible either offline through the Bookshelf available as a free download available online and also via the iPad and Android apps Upon purchase you ll gain instant access to this eBook Time limit The eBooks products do not have an expiry date You will continue to access your digital ebook products whilst you have your Bookshelf installed **Data Structures and Algorithms in Java** Michael T. Goodrich,Roberto Tamassia,2004 The third edition of this conceptually elegant and pedagogically innovative text continues to incorporate the object oriented design paradigm using Java as the implementation language while also providing intuition and analysis of fundamental data structures and

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