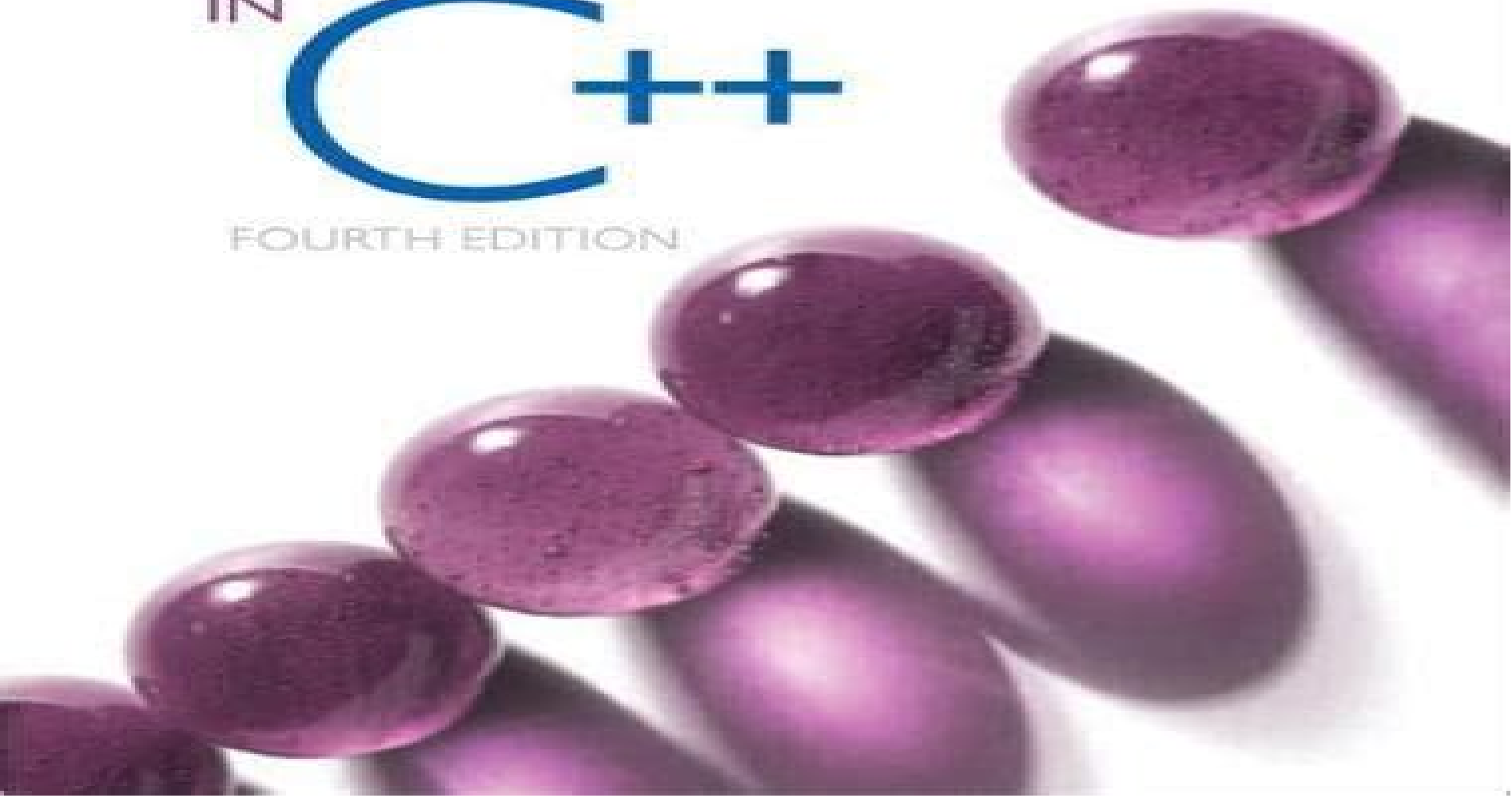


MARK ALLEN WEISS

DATA STRUCTURES AND ALGORITHM ANALYSIS IN C++

FOURTH EDITION



Data Structures And Algorithm Analysis In Ada

Mark Allen Weiss



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Data Structures and Algorithm Analysis in Ada Mark Allen Weiss,1993 Data Structures and Algorithm Analysis Mark Allen Weiss,1992 This text takes a modern approach to algorithms and data structures Emphasizing theory rather than code it highlights conceptual topics with a focus on ADTs and analysis of algorithms for efficiency In particular the concentration is on specific programming problems and how careful implementation will improve program running time Logically organized it presents topics in a manageable order Designed for students and professionals it is suitable for an advanced data structures course or a first year graduate course in algorithm analysis *Data Structures & Algorithm Analysis in Java* Mark Allen Weiss,1999-01 Mark Allen Weiss provides a proven approach to algorithms and data structures using the exciting Java programming language as the implementation tool With Java he highlights conceptual topics focusing on ADTs and the analysis of algorithms for efficiency as well as performance and running time Dr Weiss also distinguishes this text with a logical organization of topics his engaging writing style and an extensive use of figures and examples showing the successive stages of an algorithm Features Contains extensive sample code using Java 1.2 which is available over the Internet Covers the Java Collections Library in an appendix Includes a chapter on algorithm and design techniques that covers greedy algorithms divide and conquer algorithms dynamic programming randomized algorithms and backtracking Presents current topics and new data structures such as Fibonacci heaps skew heaps binomial queues skip lists and splay trees Offers a chapter on amortized analysis that examines the advanced data structures presented earlier in the book Provides a chapter on advanced data structures and their implementation covering red black trees top down splay trees treaps k-d trees pairing heaps and more 0201357542B04062001 *Data Structures and Algorithm Analysis in Java* Mark Allen Weiss,2007 As the speed and power of computers increases so does the need for effective programming and algorithm analysis By approaching these skills in tandem Mark Allen Weiss teaches readers to develop well constructed maximally efficient programs in Java A full language update to Java 5.0 throughout the text particularly its use of generics adds immeasurable value to this advanced study of data structures and algorithms This Second Edition features integrated coverage of the Java Collections Library as well as a complete revision of lists stacks queues and trees Weiss clearly explains topics from binary heaps to sorting to NP completeness and dedicates a full chapter to amortized analysis and advanced data structures and their implementation Figures and examples illustrating successive stages of algorithms contribute to Weiss careful rigorous and in depth analysis of each type of algorithm A logical organization of topics and full access to source code compliment the text's coverage *Data Structures and Algorithm Analysis in C++* Mark Allen Weiss,1994 Mark Weiss uses C to provide a smooth introduction to object oriented design for programmers competent in one other language Using C the book delivers a series of carefully developed examples which illustrate the important concepts of object orientation alongside its main theme of data structures *Data Structures and Problem Solving Using Java* Mark Allen Weiss,1998 This text uses Java to teach data

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