

A Practical Guide to Data Structures and Algorithms using Java (Chapman & Hall/CRC Applied Algorithms and Data Structures series)

By Sally. A Goldman, Kenneth. J Goldman

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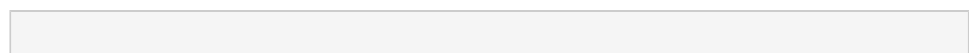
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Although traditional texts present isolated algorithms and data structures, they do not provide a unifying structure and offer little guidance on how to appropriately select among them. Furthermore, these texts furnish little, if any, source code and leave many of the more difficult aspects of the implementation as exercises. A fresh alternative to conventional data structures and algorithms books, **A Practical Guide to Data Structures and Algorithms using Java** presents comprehensive coverage of fundamental data structures and algorithms in a unifying framework with full implementation details. Recognizing that software development is a top-down process, this applications-centered book provides careful guidance to students and practitioners.

Complete and thoroughly integrated Java implementations expose key differences among a wide range of important data structures, including many useful abstract data types not provided in standard Java libraries. Fundamental algorithms appear within the context of their supporting data structures. Case studies, examples, decision trees, and comparison charts throughout the stylized presentation illustrate and support an efficient methodology for the careful selection and application of data structures and algorithms. Appendices summarize major features of the Java programming language, introduce asymptotic notation and complexity analysis, and discuss design patterns applied in the book.

A true marriage of theory and practice, this book sets a new standard as a comprehensive practical guide to data structures and algorithms. Practitioners and students will reach for this book often to quickly identify the best data structure or algorithm for their applications.



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Editorial Review

Review

This is no ordinary textbook on algorithms and data structures. In fact, it is not really a textbook at all, but rather an extraordinarily powerful and practical reference book. It is perhaps the most thorough and complete catalog of fundamental algorithms that I have ever seen. The book is extremely well organized, and has been carefully designed to provide practical help for a student or developer with a specific problem at hand who is seeking the most appropriate data structure or abstract data type. Everything that one might wish for with this goal in mind has been provided, including a top-down guide that provides an organizational map of the myriad data structures to choose from, comparisons between competing choices, short descriptions for quick reference, longer explanations for detailed understanding, performance analyses, correctness arguments, plus a CD with full Java implementations. This is a tremendously valuable practical resource.

-Robert Schapire, Professor of Computer Science, Princeton University, New Jersey, USA

The Goldmans' new book is a tour de force of data structures and associated algorithms, accomplishing far more than any single author could hope to achieve. Theory and practice are represented in complementary fashion, with clever mechanisms such as 'correctness highlights' and tables illustrating space and time complexity tradeoffs between different implementation options. The book is extremely well designed as a reference with value that extends well beyond Java programmers. I can imagine that the decision tree inside the front cover will be placed in a prominent location in many graduate student and developer work spaces. I intend to make sure my students consult it before launching into any significant implementation.

-Ellen Witte Zegura, Professor, Associate Dean, and Chair of the Computing Science and Systems Division, Georgia Institute of Technology, Atlanta, USA

In this impressive book, [the authors] combine practical guidance on how to select and use important ADTs and data structures with a clear presentation of the underlying theory. I do not know of any other book that is able to simultaneously address both application and theory so well. One of my favorite features of this book is that for each data structure given, there is a presentation of competing data structures and how they compare. This allows the reader to quickly place the new data structure into context as well as to find the best data structure for a given application.

-Avrim Blum, Professor of Computer Science, Carnegie Mellon University, Pittsburgh, Pennsylvania, USA

This is the first book I know of that teaches the theory and practice of algorithm and data structure design in a clear and comprehensive way. For each topic it presents a motivating example, a clear ADT, various implementations, and a guide for comparing different implementations. Each implementation is followed by a detailed and clear theoretical analysis, a complete Java implementation, and a discussion of the used design patterns. This book is a thorough textbook as well as a great reference book!

-Monika Henzinger, Professor of Computer and Communication Sciences, École Polytechnique Fédérale de Lausanne, Switzerland, and Research Director, Google

About the Author

Washington University, Saint Louis, Missouri, USA Washington University, Saint Louis, Missouri, USA

Users Review

From reader reviews:

James Murray:

Why don't make it to be your habit? Right now, try to ready your time to do the important action, like looking for your favorite guide and reading a book. Beside you can solve your long lasting problem; you can add your knowledge by the guide entitled A Practical Guide to Data Structures and Algorithms using Java (Chapman & Hall/CRC Applied Algorithms and Data Structures series). Try to the actual book A Practical Guide to Data Structures and Algorithms using Java (Chapman & Hall/CRC Applied Algorithms and Data Structures series) as your good friend. It means that it can to become your friend when you sense alone and beside associated with course make you smarter than ever. Yeah, it is very fortunated to suit your needs. The book makes you a lot more confidence because you can know anything by the book. So , we need to make new experience and also knowledge with this book.

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Clifford Harris:

Precisely why? Because this A Practical Guide to Data Structures and Algorithms using Java (Chapman & Hall/CRC Applied Algorithms and Data Structures series) is an unordinary book that the inside of the publication waiting for you to snap the idea but latter it will surprise you with the secret that inside. Reading this book next to it was fantastic author who have write the book in such wonderful way makes the content within easier to understand, entertaining means but still convey the meaning completely. So , it is good for you for not hesitating having this ever again or you going to regret it. This phenomenal book will give you a lot of positive aspects than the other book have such as help improving your ability and your critical thinking way. So , still want to hesitate having that book? If I had been you I will go to the guide store hurriedly.

Sebrina Knapp:

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