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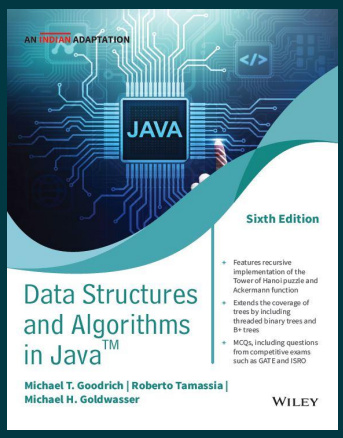

Data Structures and Algorithms in Java, 6ed (An Indian Adaptation)

By Michael T. Goodrich, Roberto Tamassia, Michael H. Goldwasser, Subhasish Banerjee

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Description

Data Structures and Algorithms in Java offers a comprehensive, definitive introduction to data structures and algorithms, including their design, analysis, and implementation in Java. The contents of the book are organized to provide a pedagogical path that starts with the basics of Java programming and object-oriented design and foundational techniques such as algorithm analysis and recursion. The book then presents fundamental data structures, such as arrays, linked lists, stacks, queues, trees, heaps, maps, hash tables, search trees, and graphs, concluding with a discussion on searching and sorting algorithms and memory management. The book incorporates a host of pedagogical features, including illustrations, code fragments, and end-of-chapter exercises.

About the Author

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Michael T. Goodrich is a Chancellor’s Professor in the Department of Computer Science at University of California, Irvine. Previously, he was a professor at Johns Hopkins University. His research interests include analysis, design, and implementation of algorithms, data security, cloud computing, graph drawing, and computational geometry. He is a Fulbright scholar and a fellow of the American Association for the Advancement of Science (AAAS), Association for Computing Machinery (ACM)

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