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By Peter Drake

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This new book provides a concise and engaging introduction to Java and object-oriented programming with an abundance of original examples, use of Unified Modeling Language throughout, and coverage of the new Java 1.5. Addressing critical concepts up front, the book's five-part structure covers object-oriented programming, linear structures, algorithms, trees and collections, and advanced topics. **KEY FEATURES:** *Data Structures and Algorithms in Java* takes a practical approach to real-world programming and introduces readers to the process of crafting programs by working through the development of projects, often providing multiple versions of the code and consideration for alternate designs. The book features the extensive use of games as examples; a gradual development of classes analogous to the Java Collections Framework; complete, working code in the book and online; and strong pedagogy including extended examples in most chapters along with exercises, problems and projects. For readers and professionals with a familiarity with the basic control structures of Java or C and a precalculus level of mathematics who want to expand their knowledge to Java data structures and algorithms. Ideal for a second undergraduate course in computer science.

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Editorial Review

About the Author

Peter Drake is Assistant Professor of Computer Science at Lewis & Clark College in Portland, Oregon. He holds a BA in English from Willamette University, an MS in Computer Science from Oregon State University, and a PhD in Computer Science and Cognitive Science from Indiana University. His research involves writing programs to play the ancient Chinese game of Go.

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