Data Structures and Algorithms in Python

Michael T. Goodrich, Roberto Tamassia, Michael H. Goldwasser

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Based on the authors' market leading data structures books in Java and C++, this book offers a comprehensive, definitive introduction to data structures in Python by authoritative authors. ***Data Structures and Algorithms in Python*** is the first authoritative object-oriented book available for Python data structures. Designed to provide a comprehensive introduction to data structures and algorithms, including their design, analysis, and implementation, the text will maintain the same general structure as *Data Structures and Algorithms in Java* and *Data Structures and Algorithms in C++*.

- Begins by discussing Python's conceptually simple syntax, which allows for a greater focus on concepts.
- Employs a consistent object-oriented viewpoint throughout the text.
- Presents each data structure using ADTs and their respective implementations and introduces important design patterns as a means to organize those implementations into classes, methods, and objects.
- Provides a thorough discussion on the analysis and design of fundamental data structures.
- Includes many helpful Python code examples, with source code provided on the website.
- Uses illustrations to present data structures and algorithms, as well as their analysis, in a clear, visual manner.
- Provides hundreds of exercises that promote creativity, help readers learn how to think like programmers, and reinforce important concepts.
- Contains many Python-code and pseudo-code fragments, and hundreds of exercises, which are divided into roughly 40% reinforcement exercises, 40% creativity exercises, and 20% programming projects.

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