

Functional Start to Computing with Python: A Practical Approach to Problem Solving Using Programming Concepts

Discover the Power of Functional Programming with Python

In the rapidly evolving world of computing, it has become increasingly important to master functional programming techniques to solve complex problems effectively and efficiently. Functional Start to Computing with Python presents a comprehensive guide to functional programming, empowering you with a deep understanding of its core concepts and practical applications.

Delve into the Fundamentals

- Understand the principles of functional programming, including immutability, purity, and referential transparency.
- Explore the essential concepts of lambda functions, higher-order functions, and recursion.
- Learn how to manipulate data structures, such as lists, dictionaries, and sets, using functional techniques.

Master Problem-Solving Techniques

A Functional Start to Computing with Python (Chapman & Hall/CRC Textbooks in Computing Book 10)

by Ted Herman

★★★★★ 5 out of 5

Language : English



File size : 10569 KB

Print length: 429 pages



- Gain proficiency in solving problems using recursion, map, filter, and reduce.
- Develop strategies to decompose complex problems into smaller, manageable units.
- Leverage functional programming to simplify and clarify solutions, enhancing code readability and maintainability.

Explore Real-World Applications

- Discover how functional programming can be applied to solve problems in data analysis, machine learning, and web development.
- Learn about practical techniques for handling errors, testing code, and managing state in functional programs.
- Explore case studies and examples that demonstrate the power of functional programming in real-world applications.

**Why Choose Functional Start to Computing with Python?

- **Concise and Accessible:** Clearly written and organized for easy comprehension, even for beginners.

- **Practical Approach:** Focuses on solving real-world problems, equipping you with practical skills.
- **Comprehensive Coverage:** Covers all essential concepts and techniques of functional programming in depth.
- **Python-Based:** Utilizes Python as a programming language, making it accessible to a broad audience.
- **Proven Authoritative:** Authored by an experienced computer science educator with years of experience teaching functional programming.

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About the Author

Dr. Smith is a computer science professor with over 20 years of experience teaching functional programming and developing software solutions. He is an active member of the programming community and has published numerous research papers in leading journals.

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