



Explorations in Computing: An Introduction to Computer Science (Hardback)

By John S. Conery

Taylor Francis Inc, United States, 2010. Hardback. Condition: New. New.. Language: English . Brand New Book. Based on the author s introductory course at the University of Oregon, Explorations in Computing: An Introduction to Computer Science focuses on the fundamental idea of computation and offers insight into how computation is used to solve a variety of interesting and important real-world problems. Taking an active learning approach, the text encourages students to explore computing ideas by running programs and testing them on different inputs. It also features illustrations by Phil Foglio, winner of the 2009 and 2010 Hugo Award for Best Graphic Novel. Classroom-Tested Material The first four chapters introduce key concepts, such as algorithms and scalability, and hone practical lab skills for creating and using objects. In the remaining chapters, the author covers divide and conquer as a problem solving strategy, the role of data structures, issues related to encoding data, computer architecture, random numbers, challenges for natural language processing, computer simulation, and genetic algorithms. Through a series of interactive projects in each chapter, students can experiment with one or more algorithms that illustrate the main topic. Requiring no prior experience with programming, these projects show students how algorithms provide...



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