

1: Introduction to the Design and Analysis of Algorithms 3e Global Edition | eBay

Dr. Anany Levitin graduated from the Moscow State University with an MS degree in Mathematics. He holds a Ph.D. degree in Mathematics from the Hebrew University of Jerusalem and an MS degree in Computer Science from the University of Kentucky.

About This Product Description Based on a new classification of algorithm design techniques and a clear delineation of analysis methods, Introduction to the Design and Analysis of Algorithms presents the subject in a coherent and innovative manner. Written in a student-friendly style, the book emphasizes the understanding of ideas over excessively formal treatment while thoroughly covering the material required in an introductory algorithms course. Other learning-enhancement features include chapter summaries, hints to the exercises, and a detailed solution manual. Features Employs an innovative and more comprehensive taxonomy of algorithm design techniques Covers mathematical analysis of both nonrecursive and recursive algorithms, as well as empirical analysis and algorithm visualization Discusses limitations of algorithms and ways to overcome them Treats algorithms as problem-solving tools and develops algorithmic thinking by using puzzles and games Contains over exercises with hints for students and detailed solutions for instructors New exercises and engaging puzzles New To This Edition The most important change in this edition is the new order of the chapters on decrease-and-conquer and divide-and-conquer. There are several advantages in introducing decrease-and-conquer before divide-and-conquer: Decrease-and-conquer is a simpler strategy than divide-and-conquer. Decrease-and-conquer is applicable to more problems than divide-and-conquer. The new order makes it possible to discuss insertion sort before mergesort and quicksort. The idea of array partitioning is now introduced in conjunction with the selection problem. Binary search is now considered in the section devoted to decrease-by-aconstant-factor algorithms, where it belongs. The second important change is restructuring of Chapter 8 on dynamic programming. The introductory section is completely new. It contains three basic examples that provide a much better introduction to this important technique than computing a binomial coefficient, the example used in the first two editions. All the exercises for Section 8. The author also changed the order of the other sections in this chapter to get a smoother progression from the simpler applications to the more advanced ones. More applications of the algorithms discussed are included. The section on the graph-traversal algorithms is moved from the decrease-and-conquer chapter to the brute-force and exhaustive-search chapter. The Gray code algorithm is added to the section dealing with algorithms for generating combinatorial objects. The divide-and-conquer algorithm for the closest-pair problem is discussed in more detail. Updates include the section on algorithm visualization, approximation algorithms for the traveling salesman problem, and the bibliography. The author added about 70 new problems to the exercises. Some of them are algorithmic puzzles and questions asked during job interviews.

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