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- Doubles the tutorial material and exercises over the first edition
- Provides full online support for lecturers, and a completely updated and improved website component with lecture slides, audio and video
- Contains a unique catalog identifying the 75 algorithmic problems that arise most often in practice, leading the reader down the right path to solve them
- Includes several NEW "war stories" relating experiences from real-world applications

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Provides up-to-date links leading to the very best algorithm implementations available in C, C++, and Java

This practical guide presents and compares the fundamental theories and techniques of placement and routing and provides important new approaches to solving specific problems.;Focusing on highly reliable methods for good manufacturing capability, Placement and Routing of Electronic Modules: discusses the mathematical basis for placement and

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routing, including set, combinatorial and graph theories; explicates the definitions, structures and relationships of tree types and gives methods of finding minimum trees; furnishes useful techniques for placing and routing high-density modules; supplies ways to determine the work-space area needed for placement and routing; shows how to estimate the number of layers necessary to complete routing; explains via minimization to reduce work-space area, facilitate manufacture, and reduce the number of layers; demonstrates a variety of search strategies for paths connecting two nodes on a work space with

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obstacles; and much more. Containing over 300 illustrative examples, figures and tables that clarify concepts and enhance understanding, Placement and Routing of Electronic Modules should be a useful tool for electrical and electronics, mechanical, reliability, process, and manufacturing engineers; computer scientists; applied mathematicians; and graduate-level students in these disciplines.

This volume contains the 74 contributed

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papers and abstracts of 4 of the 5 invited talks presented at the 10th Annual European Symposium on Algorithms (ESA 2002), held at the University of Rome “La Sapienza”, Rome, Italy, 17-21 September, 2002. For the first time, ESA had two tracks, with separate program committees, which dealt respectively with: – the design and mathematical analysis of algorithms (the “Design and Analysis” track); – real-world applications, engineering and experimental analysis of algorithms (the “Engineering and Applications” track). Previous ESAs were held in Bad Honnef, Germany (1993); Utrecht, The

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Neth- lands (1994); Corfu, Greece (1995); Barcelona, Spain (1996); Graz, Austria (1997); Venice, Italy (1998); Prague, Czech Republic (1999); Saarbruc " ken, Ger- ? many (2000), and Arhus, Denmark (2001). The predecessor to the Engineering and Applications track of ESA was the Annual Workshop on Algorithm En- neering (WAE). Previous WAEs were held in Venice, Italy (1997), Saarbruc " ken, ? Germany (1998), London, UK (1999), Saarbru " cken, Germany (2000), and Arhus, Denmark (2001). The proceedings of the previous ESAs were published as Springer LNCS volumes 726, 855,

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979, 1284, 1461, 1643, 1879, and 2161. The proceedings of WAEs from 1999 onwards were published as Springer LNCS volumes 1668, 1982, and 2161.

A systematic survey of many of these recent results on Gossip network algorithms.

This volume contains the 74 contributed papers and abstracts of 4 of the 5 invited talks presented at the 10th Annual European Symposium on Algorithms (ESA 2002), held at the University of Rome "La Sapienza", Rome, Italy, 17-21 September, 2002. For the first

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Despite growing interest, basic information on methods and models for mathematically analyzing algorithms has rarely been directly accessible to practitioners, researchers, or students. An Introduction to the Analysis of Algorithms, Second Edition, organizes and presents that knowledge, fully introducing primary techniques and results in the field. Robert Sedgewick and the late Philippe Flajolet have drawn from both classical mathematics and computer science, integrating discrete mathematics, elementary real analysis, combinatorics, algorithms, and data structures. They emphasize the mathematics

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needed to support scientific studies that can serve as the basis for predicting algorithm performance and for comparing different algorithms on the basis of performance. Techniques covered in the first half of the book include recurrences, generating functions, asymptotics, and analytic combinatorics. Structures studied in the second half of the book include permutations, trees, strings, tries, and mappings. Numerous examples are included throughout to illustrate applications to the analysis of algorithms that are playing a critical role in the evolution of our modern computational

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infrastructure. Improvements and additions in this new edition include Upgraded figures and code An all-new chapter introducing analytic combinatorics Simplified derivations via analytic combinatorics throughout The book's thorough, self-contained coverage will help readers appreciate the field's challenges, prepare them for advanced results—covered in their monograph Analytic Combinatorics and in Donald Knuth's The Art of Computer Programming books—and provide the background they need to keep abreast of new research. "[Sedgewick and Flajolet] are not only worldwide leaders of the field, they also are

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masters of exposition. I am sure that every serious computer scientist will find this book rewarding in many ways." –From the Foreword by Donald E. Knuth

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