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	Nota di contenuto	Average Case Analysis of Algorithms on Sequences; Contents; Forword; Preface; Acknowledgments; PART I PROBLEMS ON WORDS; 1 Data Structures and Algorithms on Words; 1.1 Digital Trees; 1.2 Data Compression: Lempel-Ziv Algorithms; 1.2.1 Lempel-Ziv'77 Algorithm; 1.2.2 Lempel-Ziv'78 Algorithm; 1.2.3 Extensions of Lempel-Ziv Schemes; 1.3 Pattern Matching; 1.4 Shortest Common Superstring; 1.5 String Editing Problem; 1.6 Optimization Problems; 1.7 Exercises; 2 Probabilistic and Analytical Models; 2.1 Probabilistic Models of Strings; 2.2 Review of Probability; 2.2.1 Some Useful Inequalities
		2.2.2 Types of Stochastic Convergence2.3 Review of Complex Analysis; 2.4 Special Functions; 2.4.1 Euler's Gamma Function; 2.4.2 Riemann's Zeta Function; 2.5 Extensions and Exercises; PART II PROBABILISTIC AND COMBINATORIAL TECHNIQUES; 3 Inclusion-Exclusion Principle; 3.1 Probabilistic Inclusion-Exclusion Principle; 3.2 Combinatorial Inclusion-Exclusion Principle; 3.3 Applications; 3.3.1 Depth in a Trie; 3.3.2 Order Statistics; 3.3.3 Longest Aligned Word; 3.4 Extensions and Exercises; 4 The First and Second Moment Methods; 4.1 The Methods; 4.2 Applications
		4.2.1 Markov Approximation of a Stationary Distribution4.2.2 Excursion

| Sommario/riassunto | A timely book on a topic that has witnessed a surge of interest over the last decade, owing in part to several novel applications, most notably in data compression and computational molecular biology. It describes methods employed in average case analysis of algorithms, combining both analytical and probabilistic tools in a single volume.* Tools are illustrated through problems on words with applications to molecular biology, data compression, security, and pattern matching.* Includes chapters on algorithms and data structures on words, probabilistic and analytical models, inclusion-ex |