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Edizione	[2nd ed.]
Descrizione fisica	1 online resource (229 p.)
Disciplina	511/.8
Soggetti	Problem solving - Data processing Computer algorithms Computational complexity
Lingua di pubblicazione	Inglese
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Intro -- Contents -- Preface -- Preface to the Second Edition -- 0 What this Book Is About -- 1 Mathematical Preliminaries -- 2 Recursive Algorithms -- 3 The Network Flow Problem -- 4 Algorithms in the Theory of Numbers -- 5 NP-Completeness -- Hints and Solutions for Selected Problems -- Index.
Sommario/riassunto	This book is an introductory textbook on the design and analysis of algorithms. The author uses a careful selection of a few topics to illustrate the tools for algorithm analysis. Recursive algorithms are illustrated by Quicksort, FFT, fast matrix multiplications, and others. Algorithms associated with the network flow problem are fundamental in many areas of graph connectivity, matching theory, etc. Algorithms in number theory are discussed with some applications to public key encryption. This second edition will differ from the present edition mainly in that solutions to most of the exercises will be included.