

1. Record Nr.	UNINA9910784404703321
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Titolo	A first course in combinatorial optimization / / Jon Lee [[electronic resource]]
Pubbl/distr/stampa	Cambridge : , : Cambridge University Press, , 2004
ISBN	1-107-14425-6 0-511-64815-4 0-511-18783-1 0-511-56155-5 0-511-61665-1 0-511-18690-8
Descrizione fisica	1 online resource (xvi, 211 pages) : digital, PDF file(s)
Collana	Cambridge texts in applied mathematics ; ; 36
Disciplina	519.6/4
Soggetti	Combinatorial optimization
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Title from publisher's bibliographic system (viewed on 05 Oct 2015).
Nota di bibliografia	Includes bibliographical references (p. 207-208) and indexes.
Nota di contenuto	Polytopes and Linear Programming -- 1. Matroids and the Greedy Algorithm -- 2. Minimum-Weight Dipaths -- 3. Matroid Intersection -- 4. Matching -- 5. Flows and Cuts -- 6. Cutting Planes -- 7. Branch-& Bound -- 8. Optimizing Submodular Functions.
Sommario/riassunto	A First Course in Combinatorial Optimization is a 2004 text for a one-semester introductory graduate-level course for students of operations research, mathematics, and computer science. It is a self-contained treatment of the subject, requiring only some mathematical maturity. Topics include: linear and integer programming, polytopes, matroids and matroid optimization, shortest paths, and network flows. Central to the exposition is the polyhedral viewpoint, which is the key principle underlying the successful integer-programming approach to combinatorial-optimization problems. Another key unifying topic is matroids. The author does not dwell on data structures and implementation details, preferring to focus on the key mathematical ideas that lead to useful models and algorithms. Problems and exercises are included throughout as well as references for further study.

