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Autore	RICKLEFS, Robert E.
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Nota di contenuto	Cover; Applications of Combinatorial Optimization; Title Page; Copyright Page; Table of Contents; Preface; Chapter 1. Airline Crew Pairing Optimization; 1.1. Introduction; 1.2. Definition of the problem; 1.2.1. Constructing subnetworks; 1.2.2. Pairing costs; 1.2.3. Model; 1.2.4. Case without resource constraints; 1.3. Solution approaches; 1.3.1. Decomposition principles; 1.3.2. Column generation, master problem and subproblem; 1.3.3. Branching methods for finding integer solutions; 1.4. Solving the subproblem for column generation; 1.4.1. Mathematical formulation 1.4.2. General principle of effective label generation1.4.3. Case of one single resource: the bucket method; 1.4.4. Case of many resources: reduction of the resource space; 1.5. Conclusion; 1.6. Bibliography; Chapter 2. The Task Allocation Problem; 2.1. Presentation; 2.2. Definitions and modeling; 2.2.1. Definitions; 2.2.2. The processors; 2.2.3. Communications; 2.2.4. Tasks; 2.2.5. Allocation types; 2.2.6. Allocation/scheduling; 2.2.7. Modeling; 2.3. Review of the main works; 2.3.1. Polynomial cases; 2.3.2. Approximability; 2.3.3. Approximate

solution; 2.3.4. Exact solution
 2.3.5. Independent tasks case
 2.4. A little-studied model; 2.4.1. Model;
 2.4.2. A heuristic based on graphs; 2.5. Conclusion; 2.6. Bibliography;
 Chapter 3. A Comparison of Some Valid Inequality Generation Methods
 for General 0-1 Problems; 3.1. Introduction; 3.2. Presentation of the
 various techniques tested; 3.2.1. Exact separation with respect to a
 mixed relaxation; 3.2.2. Approximate separation using a heuristic;
 3.2.3. Restriction + separation + relaxed lifting (RSRL); 3.2.4.
 Disjunctive programming and the lift and project procedure; 3.2.5.
 Reformulation-linearization technique (RLT)
 3.3. Computational results
 3.3.1. Presentation of test problems; 3.3.2.
 Presentation of the results; 3.3.3. Discussion of the computational
 results; 3.4. Bibliography; Chapter 4. Production Planning; 4.1.
 Introduction; 4.2. Hierarchical planning; 4.3. Strategic planning and
 productive system design; 4.3.1. Group technology; 4.3.2. Locating
 equipment; 4.4. Tactical planning and inventory management; 4.4.1. A
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 management; 4.4.3. Wagner and Whitin model; 4.4.4. The economic
 order quantity model (EOQ)
 4.4.5. The EOQ model with joint replenishments
 4.5. Operations
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 Conclusion and perspectives; 4.7. Bibliography; Chapter 5. Operations
 Research and Goods Transportation; 5.1. Introduction; 5.2. Goods
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 location; 5.4. Long-distance transport; 5.4.1. Service network design;
 5.4.2. Static formulations; 5.4.3. Dynamic formulations; 5.4.4. Fleet
 management; 5.5. Vehicle routing problems
 5.5.1. Definitions and complexity

Sommario/riassunto

Combinatorial optimization is a multidisciplinary scientific area, lying in the interface of three major scientific domains: mathematics, theoretical computer science and management. The three volumes of the Combinatorial Optimization series aims to cover a wide range of topics in this area. These topics also deal with fundamental notions and approaches as with several classical applications of combinatorial optimization. "Applications of Combinatorial Optimization" is presenting a certain number among the most common and well-known applications of Combinatorial Optimization.