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A typology of cutting and packing problems. (English) Zbl 0684.90076
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Summary: Cutting and packing problems appear under various names in literature, e.g. cutting stock or trim loss problem, bin or strip packing problem, vehicle, pallet or container loading problem, nesting problem, knapsack problem etc. The paper develops a consistent and systematic approach for a comprehensive typology integrating the various kinds of problems. The typology is founded on the basic logical structure of cutting and packing problems. The purpose is to unify the different use of notions in the literature and to concentrate further research on special types of problems.

MSC:

- 90C27 Combinatorial optimization
- 90C10 Integer programming
- 05C70 Edge subsets with special properties (factorization, matching, partitioning, covering and packing, etc.)
- 90-02 Research exposition (monographs, survey articles) pertaining to operations research and mathematical programming
- 90C90 Applications of mathematical programming

Cited in **2** Reviews
Cited in **212** Documents

Keywords:

cutting stock; trim loss; packing; container loading; nesting; typology

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