VALID INEQUALITIES AND CUTTING PLANES FOR SOME POLYTOPES

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Abstract. In this paper we consider multidimensional knapsack polytope. Some important concepts and preliminaries are given at the beginning. Then we give a result connected with valid and dominating inequalities for this polytope, and a modular arithmetic approach for valid inequalities and cutting planes generation for the (one-dimensional) knapsack polytope.

Key words and phrases: Combinatorial optimization, integer programming, knapsack problem, valid inequalities, cutting planes.

REFERENCES

