

## OPERATIONS ON GREEDOIDS

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**Abstract.** Our goal in this paper is to explore the operations of deletion, contraction, direct sum and ordered sum of greedoids. Moreover, we introduce the notion of balanced greedoid and give a necessary and sufficient condition for the direct sum and ordered sum of balanced greedoids to be balanced.

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**Key words.** Greedoid, basis, feasible, density, deletion, contraction, direct sum, ordered sum.

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