

## CHARACTERIZATIONS OF WEAKLY ORDERED $k$ -REGULAR HEMIRINGS BY $k$ -IDEALS

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### Abstract

We study the concepts of left weakly ordered  $k$ -regular and right weakly ordered  $k$ -regular hemirings and give some of their characterizations using many types of their  $k$ -ideals.

**Keywords:** ordered hemiring,  $k$ -ideal, ordered  $k$ -regular hemiring, weakly ordered  $k$ -regular hemiring.

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