

A NOTE ON HYPERVECTOR SPACES

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Abstract

The main aim of this paper is to generalize the concept of vector space by the hyperstructure. We generalize some definitions such as hypersubspaces, linear combination, Hamel basis, linearly dependence and linearly independence. A few important results like deletion theorem, extension theorem, dimension theorem have been established in this hypervector space.

Keywords: hyperoperation, hyperfield, hypervector spaces, linear dependent, linear independent.

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