

SMARANDACHE SEMIVECTOR SPACES

I. Ramya
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Smarandache semivector spaces (S-semivector spaces) and their properties are discussed in this dissertation. A comparison between semivector spaces and vector spaces are obtained. It is proved in general all semivector spaces need not be S-semivector spaces. The notion of Smarandache semiring is studied for this notion alone can lead to the definition of S-vector spaces.

This dissertation has four chapters. Chapter one is introductory in nature. Chapter two gives the essential properties of vector spaces so that comparison is made easy. Semivector spaces and its properties are discussed in chapter three. Smarandache semivector spaces and its properties are analyzed in chapter four.