

S-SEMIRINGS AND THEIR PROPERTIES

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This dissertation studies Smarandache semirings. These algebraic structures happen to be an interesting one as all distributive lattices are semirings. However all lattices are not semirings. The notion of S -antizero divisors, S -units and S -idempotents in semirings are studied in this dissertation. The study of S -antisemiring has lead to the fact that all rings of characteristic zero with one are S -antisemirings.

This dissertation has three chapters. Chapter one is introductory in nature; it introduces the notion of semigroups and lattices. Chapter two introduces the notion of semirings and Smarandache semirings (S -semirings). Smarandache special elements in S -semirings are discussed in chapter three.