SPECIAL ELEMENTS IN S-SEMIRINGS

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The notion of Smarandache semirings (S-semirings) is very new. In this paper we define special elements in S-semirings like S-zero divisors, S-anti zero divisors and prove the following

- A semiring $S$ has $x$ to be a $S$-zero divisor then $x$ is a zero divisor in $S$.

- If $x \in S$ ($S$ a semiring) is a $S$-anti zero divisor then $x$ in general need not be a zero divisor but prove if $S$ has $S$-anti zero divisors then $S$ must necessarily have zero divisors.

We further define the notions of $S$-idempotents and $S$-units in semirings and obtain some interesting results about them.