

S-NEAR RINGS

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MA06C008
2008

Near rings satisfy one distributive law unlike rings which satisfy both the distributive laws. In this dissertation Smarandache near rings (S-near rings) are studied. All S-near rings are near rings, but near rings in general are not S-near rings. Analogous to N-groups Smarandache N-groups are analysed. Notions like Smarandache quasi subnear rings, S-N- subgroups, S-ideal of a S-near ring and S-annihilator of a near ring are studied here. Notions like Smarandache decomposable, S-prime ideal, S-strong direct summand are studied which forms the major part of the work.

This dissertation has five chapters. Chapter one introduces near rings and its properties. Chapter two studies S-near rings. Smarandache N-groups are analyzed in chapter three. Smarandache direct product and Smarandache free near rings are studied in chapter four. The final chapter studies Smarandache ideals in near rings. The book *Smarandache near rings* by W.B. Vasantha; American Research Press, 2002 is the main reference used in this dissertation.