

SMARANDACHE GROUPOIDS AND THEIR APPLICATIONS

Maharaj Singh
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In this dissertation we have analyzed the notion of Smarandache groupoids and their applications to Smarandache semi-automaton and Smarandache automaton. These new classes of Smarandache groupoids built using Z_n pave way for several interesting concepts.

This dissertation has three chapters. In chapter one introduces groupoids and new classes of groupoids. Smarandache groupoids and its properties are discussed in chapter two. In chapter three applications of groupoids to automaton and semi automaton are discussed. This dissertation mainly makes use of the book; Groupoids and Smarandache groupoids by W.B.Vasanth Kandasamy, American Research Press, 2002.