

GROUPOID RINGS AND THEIR PROPERTIES

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In this dissertation a study of groupoid rings and their substructures are carried out. Groupoid rings are constructed analogous to group rings. Groupoid rings forms a large class of non associative rings which may or may not contain identity. Concepts like normal subring, normal groupoid ring are studied. The concept of mod p -envelope of a groupoid in a groupoid ring is analyzed. Radical of a groupoid ring and n -capacitor group of a groupoid ring are studied.

This dissertation has three chapters. Chapter one gives the basic concepts to make the work a self contained one. Groupoids rings are introduced in chapter two. Chapter three analyses the notion of substructures of groupoid rings.