

*** PREFACE ***

Varlet has introduced the concept of 0-distributive lattices as a generalization of distributive lattices and pseudocomplemented lattices. Pawar Y. S. and Mane D. N. [9] have developed a theory of α -ideals in 0-distributive semilattices using the definition of an ideal (in a semilattice) given by Venkatanarasimhan. [13]

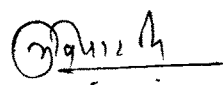
We study two special types of ideals in 0-distributive lattices and distributive lattices viz, α -ideals and 0-ideals which are given by Cornish [2] & [5].

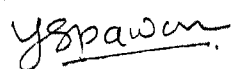
This dissertation is divided into three chapters. Chapter 0 is the collection of some known definitions and results in lattice theory which we need in the remaining chapters of the dissertation.

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In chapter 1 we establish some properties of 0-ideals in 0-distributive lattices. Several characterizations of 0-ideals in 0-distributive lattices are also furnished.

α -ideals in 0-distributive lattices are discussed in detail in chapter 2. Also relationship between 0-ideals and α -ideals in 0-distributive lattices is established.


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