

PREFACE

Boolean algebra plays an important roll in lattice theory. Bounded distributive lattice and complement lattice are the well-known generalization of Boolean algebra. But both the concepts are independent in the sense ^{that} bounded distributive lattices need not be complemented lattices and complemented lattices need not be distributive lattices.

In another direction pseudo-complemented lattices and quasi-complemented lattices are investigated as the generalization of Boolean algebra.

While generalizing the concept of pseudo-complemented lattices (quasi-complemented lattices) Varlet has investigated the classic notion of 0-distributive lattices (1-distributive lattices). Interestingly it is seen that pseudo-complemented lattices (quasi-complemented lattices) are 0-distributive lattices (1-distributive lattices).

Thus 0-distributive lattices generalize both distributive Lattices (with zero) and pseudo-complemented lattices. Hence it is naturally interesting to find various characterizations of 0-distributive lattices.

Using the concept of semi-ideal / ideal, maximal ideal / filter, minimal prime semi-ideal / ideal, A^* , A° Venkatanarasimhan has obtain many characterization of 0-distributive lattices additional to that of varlet.

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