

1077-06-1934

**Martha Lee Hollist Kilpack\*** (kilpack@binghamton.edu). *The Algebraic Lattice of Algebraic Closure Operators.*

A closure operator on an infinite set,  $S$ , is finitary or algebraic if, for all  $A \subseteq S$ , the closure of  $A$  is equal to the union of the closures of the finite subsets of  $A$ . It will be shown, if we take the set of all algebraic closure operators on  $S$  it forms, not only a lattice, but an algebraic lattice. (Received September 21, 2011)