ABSTRACT

It is well known that the class of JB*-algebras, originally introduced by *Kaplansky* in 1976 and studied by *J. D. M. Wright*, properly includes all C*-algebras. This raises a natural question of extending the C*-algebra theory to general JB*-algebras. Like several authors, we in this thesis generalize certain C*-algebra results to JB*-algebras. These include investigation of various algebraic as well as topological properties of normal, invertible and unitary elements. In the sequel, we also study the centre of a JB*-algebra and its unitary isotopes, previously studied by *M. A. Youngson* and *A. A. Siddiqui*.