

The Characteristics of Ordered Bilinear Form Semigroups

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ABSTRACT

Research on a semigroup has grown rapidly. A semigroup with an ordered operation is called an ordered semigroup if it meets some conditions. A bilinear forms semigroup is a semigroup which is formed based on a bilinear form which satisfies specific properties. In this study, investigated the properties of an ordered bilinear form semigroup based on its regular elements. We have obtained some properties associated with the largest element inverse, the largest element of idempotent and its relation to the equivalence classes of the left and right Green relation on the ordered bilinear form semigroup

Kata Kunci: *Ordered bilinear form semigroup, regular element, the greatest idempotent, the greatest inverse*