Semiring with Identity

Abstract

In this paper, we study the properties of semiring with identity \(ab + a = a\) and also study the properties of ordered semiring satisfying the identity \(ab + a = a\), for all \(a, b \in S\). This paper contains mainly two sections. In section 1, the structure of semirings satisfying the identity \(ab + a = a\), for all \(a, b \in S\) are studied. In section 2, we characterize totally ordered semirings satisfying the identity \(ab + a = a\), for all \(a, b \in S\).

References

- Jonathan S. Golan, "Semirings and their Applications";
- J. Hanumanthachari and K. Venuraju, "The additive semigroup structure of
Semiring with Identity


Index Terms

Computer Science
Applied Mathematics

Keywords

Left regular semigroup; PRD; E – inverse semigroup; Quasi separative; Positively totally ordered (p. t. o. ); Negatively totally ordered (n. t. o. ); Non - negatively ordered; Non - positively totally ordered.