



Involution on rings

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ABSTRACT

This paper deals with the concept of involution rings, involution ring properties and some important results. Also we discussed some important results in simple rings, minimal and maximal ideals with involution.

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1. INTRODUCTION

Definition 1.1. An involution on ring R is a unary operation $*$ on $(R, +)$ such that $(a^*)^* = a$, $(a + b)^* = a^* + b^*$ and $(ab)^* = b^*a^*$ for each $a, b \in R$. A ring with this operation is called a ring with involution or $*$ -ring.

Definition 1.2. Let R be a $*$ -ring and let I be an ideal of a ring R . Then I is a $*$ -ideal if I^* is a subset of I . Here we define for any non empty set S , we define $S^* = \{a^* : a \in S\}$.

Definition 1.3. A non zero ideal I of an involution ring R which is closed under involution is termed as $*$ -ideal. That is $I^* = \{a^* \in R : a \in I\} \subseteq I$.

Definition 1.4. A sub ring A of R is said to be a bi-ideal of R if $ARA \subseteq A$ and a $*$ -bi ideal if in addition it is closed under involution of R .

Example let S be a ring and let X be an ideal of S with $X^2 = 0$. Let $R = \begin{pmatrix} S & X \\ X & 0 \end{pmatrix}$ then with the standard matrix operation R is a ring and a matrix transposition is an involution, denoted by $*$. If S has a unity, then $R^2 = R$. If X is a minimal ideal of S , then $X = \begin{pmatrix} 0 & X \\ 0 & 0 \end{pmatrix}$ is a minimal ideal of R .

Definition 1.5. $(S, +, *)$ is a semi-ring (a structure in which $(S, +)$ is a commutative semi group, $(S, *)$ is a semi group, and distributes over $+$) then $(S, +, *)$ is called an involution semi ring provided that $*$ is

an involution of S satisfying the identities $(x + y)^* = x^* + y^*$, $(xy)^* = y^*x^*$.

Sometimes, semi ring may be equipped with a zero, and or an identities one. In such a case we require that the involution of satisfies $0^* = 0$ and $1^* = 1$.

Definition 1.6. A right (left) ideal I of a ring R is called $*$ -minimal ideal if

- i. $I^* = (0)^*$ and
- ii. If J is a non zero (right/left) ideal of a ring R with involution contained in I then $I = J$.

Definition 1.7. For a $*$ -ring R the direct sum of all minimal $*$ -ideal is denoted by $Soc^*(R)$, the $*$ -socle of R . If R has no $*$ -minimal ideals then define $Soc^*(R)$ to be zero and also we have $Soc^*(R)$ is the sub set of $Soc(R)$.

Definition 1.8. Every R is $*$ -simple R has no non zero proper ideals.

Definition 1.9. An ideal A is said to be maximal ideal of the ring R with involution $*$, if

- i. $A^* = A$
- ii. For any ideals B is a sub set of A , either $B = A$ or $B = R$.

Definition 1.10. Let R be a ring with involution. For some $a \in R$, one may write

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