CN -RINGS

W.B.Vasantha Kandasamy

In this note we introduce a new concept for rings called closed nets on rings. Let \( R \) be a ring, we say \( R \) has a closed net if \( R \) can be written as a union of closed nets; where by a closed net we mean a subset of \( R \) which is closed under multiplication. A ring \( R \) is called a CN-ring if \( R \) is a union of closed nets. In this note we obtain some interesting results about CN-rings.

Definition 1: Let \((R,+,.\)) be a ring. A nonempty subset \( S \) of \( R \) is called a closed net of \( R \) if \( S \) is closed set of \( R \) under the operation ‘.’ and is generated by a single element. That is, \( S \) is semi group under ‘.’.