

NEAR RINGS AND ITS PROPERTIES

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The algebraic structure near-rings which satisfies only one sided distributive law is not in curriculum of M. Sc.. So in this dissertation a systematic study of near-rings is carried out and some of the main difference between near-rings and rings are brought out. Thus this dissertation brings out some of the major differences between these two algebraic structures. The concept of N-groups in near-rings does not exist in case of rings. The ideals in near-rings are defined very differently. The notion of near-ring of left quotients is different from usual quotient ring. The ideal L of a near-ring is called modular if and only if there exists $e \in N$ and for all $n \in N$, $n - ne \in L$. This type of substructure is totally absent in case of rings.