

ON THE PRIME RADICAL OF AN IDEAL IN AN $\{m,n\}$ -RING

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Abstract. The extension of the usual ring concept to the case where the underlying group and semigroup are respectively an m -ary group and an n -ary semigroup has been studied by Crombez [1]; some ideal theory aspects and the properties of the prime radical of an ideal in a commutative $\{m,n\}$ -ring for $m=n$ were investigated. In this note we prove that these properties remain true for $n \neq m$, too.