

ON THE REDUCTION AND THE EXTENSION OF (m,n) -RINGS

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The concept of (m,n) -rings was introduced in 1965, by Cupone [4] and in a special case ($n=2$) by Boccioni [1]. Further, (m,n) -rings were examined by Cronbez [2],[4] Purdea [11], Dudek [6], Leeson-Butson [7], in which some familiar results for ordinary rings ($m=n=2$) were generalized. Also, Boccioni [1] respectively Cronbez [3] and Leeso-Butson [7] proved that a generalization of the Post coset theorem [9,p 218] could be obtained for $(m,2)$ -rings, respectively for (m,n) -rings.

In this paper we define some extensions and reduces of (m,n) -rings and the connection between them through the change of the non-associative operation of the (m,n) -ring.