

ON (m,n) - GENERALIZED RINGS

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Summary. In the papers [1],[2],[4],[6],[9] various authors continue the study of ordinary rings to the case where the underlying group and semigroup are respectively an m -ary commutative group and an n -ary semigroup. Because the usual commutative group concept may be generalized also as semicommutative m -group (by Dörnte [3]), the following paper is concerned with the extension in this sense of the usual (m,n) -ring concept.

For self-containment we give some definitions and results which will be used in the sequel.