

The paper is dedicated to the 60th anniversary of Professor Ionel Căruțăianu
Dedicated to Professor Ionel Căruțăianu on his 60th anniversary

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REDEFINING n -MODULES

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Abstract

We give a more general definition of (left) R - n -modules by omitting the condition of uniqueness of the neutral element of the abelian n -group involved (this condition initially appeared in [1], and was always used in further papers concerning n -modules). We give some examples and properties of n -submodules, homomorphisms, complements and factor n -modules. A class of special automorphisms analogous to that of n -submodules are introduced. A correspondence between n -submodules of the factor n -module and certain n -submodules of the initial n -module is established.

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