

*Dedicated to Professor Iulian Cioba on his 60<sup>th</sup> anniversary*

## REDEFINING $n$ -MODULES

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### Abstract

We give a more general definition of (left)  $B$ - $n$ -modules by counting the cotidation 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, congruences and factor  $n$ -modules. A class of special automorphisms and one 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.

**Mathematics Subject Classification:** 20N15, 17A42

**Keywords and phrases:**  $B$ - $n$ -modules, factor  $B$ - $n$ -modules