

Semiprimary n -semigroups

ADINA POP and MARIA S. POP

ABSTRACT.

The study of commutative primary semigroups was initiated by M. Satyanarayana [?], continued by H. Lal [?] on semiprimary semigroup and generalized in the noncommutative case by S. Bogdanović [?], [?]. The purpose of this paper is to give a generalization of the semiprimary semigroups by replacing the binary operation by an n -ary operation, $n \in \mathbb{N}$, $n > 2$. Most of the results of this paper are obtained by using the concept of radical of an ideal in an n -semigroup.

DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE
NORTH UNIVERSITY OF BAIA MARE
VICTORIEI 76, 430122 BAIA MARE, ROMANIA
E-mail address: adina_p.2006@yahoo.com
E-mail address: maria.sanziana@yahoo.com