

Dedicated to Professor Ion PĂVĂLOIU on his 60th anniversary

ON SIMPLE n -SEMIGROUPS

Maria S.POP

Abstract. The following paper is concerned with various theoretic aspects of the i -simple and simple n -semigroups. Many of the results are generalization of known theorems in the theory of binary semigroups, but it is interesting to mention that in contrast with the binary case where exists simple semigroups which are not i -simple, for $n \geq 3$, is necessary that to be every simple n -semigroup 2-simple and $(n-1)$ -simple.

AMS Mathematics Subject Classification (1991): 20N15

Key words: n -semigroups, ideals, simple semigroups