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Essential congruences and superfluous congruences of left $S$-acts. (Chinese. English summary)

Summary: The essential congruences and superfluous congruences of left $S$-acts are defined. We study their properties. By using the analogous means of module theory, we get the corresponding results with essential submodules and superfluous submodules in module theory.

MSC:
20M50 Connections of semigroups with homological algebra and category theory
20M15 Mappings of semigroups
08A30 Subalgebras, congruence relations
20M30 Representation of semigroups; actions of semigroups on sets

Keywords:
essential congruences; superfluous congruences; essential monomorphisms; superfluous epimorphisms