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***S*-embedded subgroups of finite groups.** (English. Russian original) Zbl 1255.20021
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Summary: A subgroup H of G is said to be S -embedded in G if G has a normal subgroup N such that HN is s -permutable in G and $H \cap N \leq H_{sG}$, where H_{sG} is the largest s -permutable subgroup of G contained in H . S -embedded subgroups are used to give novel characterizations for some classes of groups. New results are obtained and a number of previously known ones are generalized.

MSC:

- 20D40 Products of subgroups of abstract finite groups
- 20D20 Sylow subgroups, Sylow properties, π -groups, π -structure
- 20D10 Finite solvable groups, theory of formations, Schunck classes, Fitting classes, π -length, ranks
- 20D25 Special subgroups (Fratini, Fitting, etc.)

Cited in **5** Documents

Keywords:

finite groups; permutable subgroups; S -embedded subgroups; supersoluble groups; p -nilpotent groups; Sylow subgroups; quasinormal subgroups

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