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خلاصه مقاله:

Suppose that H is a subgroup of G, then H is said to be s-permutable in G, if H permutes with every Sylow subgroup of G. If HP=PH hold for every Sylow subgroup P of G with ($|P|$, $|H|$)=۱), then H is called an s-semipermutable subgroup of G. In this paper, we say that H is partially S-embedded in G if G has a normal subgroup T such that HT is s-permutable in G and $H\cap T\leq H_{\overline{s}G}$, where $H_{\overline{s}G}$ is generated by all s-semipermutable subgroups of G contained in H. We investigate the influence of some partially S-embedded minimal subgroups on the nilpotency and supersolubility of a finite group G. A series of known results in the literature are unified and generalized.

کلمات کلیدی:

s-permutable subgroup, partially S-embedded subgroup, nilpotent group, Formation