A generalization of a theorem of Shidov

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Abstract

The authors, generalizing a result of Shidov (*On maximal subgroups of finite groups*, Sibirsk. Mat. Zh. 12 (1971) 682–683), determine formation $\mathcal{F}$ of finite groups such that, for any insoluble group G, the intersection $\mathcal{F}(\mathcal{G})$ of the maximal subgroups of G which do not belong to $\mathcal{F}$ coincides with the Frattini subgroup of G.