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Finite groups with certain subgroups of prime power order c-supplemented

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Abstract

A subgroup H of a finite group G is said to be c -supplemented in G if there exists a subgroup K of G such that $HK = G$ and $H \cap K$ is contained in $\text{Core}(H)$, where $\text{Core}(H)$ is the largest normal subgroup of G contained in H . The purpose of this paper is to study the influence of c -supplementation of certain subgroups of prime power order of the group on its structure. Some recent results are improved and generalized. © 2011 Pushpa Publishing House.

Author Keywords

C -normal subgroup; C -supplemented subgroup; Complemented subgroup; Fitting subgroup; Generalized fitting subgroup; P -nilpotent group; Saturated formation; Supersolvable group

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