

TRIFACTORIZABLE GROUPS

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In the investigation of factorized groups one often has to consider groups G of the form $G=AB=AC=BC$ where A , B and C are subgroups of G . It is therefore of some interest to study such trifactorized groups independently and for their own sake. Around 1960 O.H. Kegel considered finite groups $G=AB$, where the subgroups A and B are nilpotent. Among others he proved that G is nilpotent, if the third subgroup C is nilpotent. Later it was shown that G is contained in some saturated formation F containing all nilpotent subgroups, if the subgroup C is an F -group. Here some recent extensions of these results are presented, in particular for soluble groups with minimum condition.

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