

Double chain conditions for infinite groups

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Abstract

Let χ be a subgroup theoretical property. A group G is said to satisfy the double chain condition on χ -subgroups if there are no infinite collections $(K_n)_{n \in \mathbb{Z}}$ of χ -subgroups of G such that $\dots K_{-1} < K_0 < K_1 \dots$. The structure of (generalized) soluble groups satisfying the double chain condition either on normal or on non-normal subgroups is investigated.