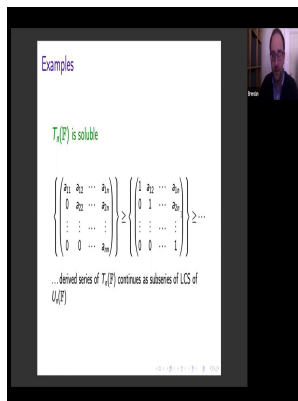# Soluble and nilpotent linear groups

American Mathematical Society - Finite soluble and niplotent groups with a restriction on the rank of the centralizer of an automorphism of prime order, Siberian Mathematical Journal

Description: -
-Soluble and nilpotent linear groups
-
Translations of mathematical monographs -- 9Soluble and nilpotent linear groups
Notes: Translation of: Razreshimȳe i nilpotentnȳe lineĭnȳe gruppȳ, originally published Minsk: Izd-vo Belgosuniversiteta, 1958.
This edition was published in 1963

Filesize: 41.14 MB

Tags: #Two #Theorems #about #Nilpotent #Subgroup

Linear group

An abelian group is precisely one for which the adjoint action is not just nilpotent but trivial a 1-Engel group. Further, the is bounded from above by the. .

Soluble and Nilpotent Groups

Since P char N and N is a normal subgroup of N G N , we get that P is a normal subgroup of N G N. A theory of periodic linear groups was constructed see it turned out that the main structure results of the theory of finite groups cf.

The composition and derived lengths of a soluble group

Introduction We say for brevity that a quantity is a, b,. Although the theory of linear groups has quite a long history, general methods were created comparatively recently. Dixon, The Fitting subgroup of a linear solvable group.

Nilpotent group

. Khukhro UDC 512 w 1.

Nilpotent subgroups of finite soluble groups

Thus, we have a generating set for which is a subset of a generating set for.

Nilpotent subgroups of finite soluble groups

Only the solvable and classical linear groups constitute an exception. We prove this lemma inductively.

CiteSeerX — LINEAR REPRESENTATIONS OF SOLUBLE GROUPS OF FINITE MORLEY RANK

The connection with Galois theory first led to the study of solvable and classical linear groups see , over a prime field.

Two Theorems about Nilpotent Subgroup

Given a finite soluble group with derived length d and composition length n, the present paper investigates upper bounds for d in terms of n. If a finite group contains an element of prime order p with centralizer of order m, then it has a subgroup of p, m -bounded index which is nilpotent of p-bounded class.

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