

1. Record Nr.	UNISA996466583903316
Autore	Klaas G (Gundel), <1967->
Titolo	Linear pro-p-groups of finite width / / G. Klaas, C. R. Leedham-Green, W. Plesken
Pubbl/distr/stampa	Berlin : , : Springer, , [1997] ©1997
ISBN	3-540-69623-7
Edizione	[1st ed. 1997.]
Descrizione fisica	1 online resource (VIII, 116 p.)
Collana	Lecture notes in mathematics ; ; 1674
Classificazione	20G25
Disciplina	512.55
Soggetti	Linear algebraic groups
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references (pages [109]-111) and index.
Nota di contenuto	Elementary properties of width -- p-adically simple groups -- Periodicity -- Chevalley groups -- Some classical groups -- Some thin groups -- Algorithms on fields -- Fields of small degree -- Algorithm for finding a filtration and the obliquity -- The theory behind the tables -- Tables -- Uncountably many just infinite pro-p-groups of finite width -- Some open problems.
Sommario/riassunto	The normal subgroup structure of maximal pro-p-subgroups of rational points of algebraic groups over the p-adics and their characteristic p analogues are investigated. These groups have finite width, i.e. the indices of the successive terms of the lower central series are bounded since they become periodic. The richness of the lattice of normal subgroups is studied by the notion of obliquity. All just infinite maximal groups with Lie algebras up to dimension 14 and most Chevalley groups and classical groups in characteristic 0 and p are covered. The methods use computers in small cases and are purely theoretical for the infinite series using root systems or orders with involutions.