

# Orderable groups with Engel-like conditions

Pavel Shumnyatsky

**ABSTRACT.** Let  $x$  be an element of a group  $G$ . For a positive integer  $n$  let  $E_n(x)$  be the subgroup generated by all commutators  $[\dots[y, x], x], \dots, x]$  over  $y \in G$ , where  $x$  is repeated  $n$  times. There are several recent results showing that certain properties of groups with small subgroups  $E_n(x)$  are close to those of Engel groups. The present article deals with orderable groups in which, for some  $n \geq 1$ , the subgroups  $E_n(x)$  are polycyclic. Let  $h, n$  be positive integers and  $G$  an orderable group in which  $E_n(x)$  is polycyclic with Hirsch length at most  $h$  for every  $x \in G$ . It is proved that there are  $(h, n)$ -bounded numbers  $h^*$  and  $c^*$  such that  $G$  has a finitely generated normal nilpotent subgroup  $N$  with  $h_c(N) \leq h^*$  and  $G/N$  nilpotent of class at most  $c^*$ .

## 1. Introduction

A group  $G$  is called an Engel group if for every  $x, y \in G$  the equation  $[y, x, x, \dots, x] = 1$  holds, where  $x$  is repeated in the commutator sufficiently many times depending on  $x$  and  $y$ . Throughout the paper, we use the left-normed simple commutator notation  $[a_1, a_2, a_3, \dots, a_r] = [\dots[[a_1, a_2], a_3], \dots, a_r]$ . The long commutators  $[y, x, \dots, x]$ , where  $x$  occurs  $i$  times, are denoted by  $[y, {}_i x]$ . An element  $x \in G$  is  $n$ -Engel if  $[y, {}_n x] = 1$  for all  $y \in G$ . A group  $G$  is  $n$ -Engel if  $[y, {}_n x] = 1$  for all  $x, y \in G$ . Given  $x \in G$ , the subgroup  $E_n(x)$  is the one generated by all elements of the form  $[y, {}_n x]$  where  $y$  ranges over  $G$ . Note that  $E_n(x)$  is not the same as the more familiar subnormal subgroup  $[G, {}_n x] = [[G, {}_{n-1} x], x]$ . There are several recent results showing that certain properties of groups with small subgroups  $E_n(x)$  are close to those of Engel groups (see for instance [3, 4, 10]). The present article

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# Orderable Groups

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## Orderable Groups:

**Right-Ordered Groups** Valerii Matveevich Kopytov, V.M. Kopytov, Nikolai Yakovlevich Medvedev, 1996-04-30 The notion of right ordered groups is fundamental in theories of I groups ordered groups torsion free groups and the theory of zero divisors free rings as well as in theoretical physics Right Ordered Groups is the first book to provide a systematic presentation of right ordered group theory describing all known and new results in the field The volume addresses topics such as right ordered groups and order permutation groups the system of convex subgroups of a right ordered group and free products of right ordered groups *Orderable Groups* Roberta Botto Mura, Akbar Rhemtulla, 1977

**Ordered Groups and Topology** Adam Clay, Dale Rolfsen, 2016-11-16 This book deals with the connections between topology and ordered groups It begins with a self contained introduction to orderable groups and from there explores the interactions between orderability and objects in low dimensional topology such as knot theory braid groups and 3 manifolds as well as groups of homeomorphisms and other topological structures The book also addresses recent applications of orderability in the studies of codimension one foliations and Heegaard Floer homology The use of topological methods in proving algebraic results is another feature of the book The book was written to serve both as a textbook for graduate students containing many exercises and as a reference for researchers in topology algebra and dynamical systems A basic background in group theory and topology is the only prerequisite for the reader

**The Theory of Lattice-Ordered Groups** V.M. Kopytov, N.Ya. Medvedev, 2013-03-09 A partially ordered group is an algebraic object having the structure of a group and the structure of a partially ordered set which are connected in some natural way These connections were established in the period between the end of 19th and beginning of 20th century It was realized that ordered algebraic systems occur in various branches of mathematics bound up with its fundamentals For example the classification of infinitesimals resulted in discovery of non archimedean ordered algebraic systems the formalization of the notion of real number led to the definition of ordered groups and ordered fields the construction of non archimedean geometries brought about the investigation of non archimedean ordered groups and fields The theory of partially ordered groups was developed by R Dedekind a Holder D Gilbert B Neumann A I Malcev P Hall G Birkhoff These connections between partial order and group operations allow us to investigate the properties of partially ordered groups For example partially ordered groups with interpolation property were introduced in F Riesz's fundamental paper 1 as a key to his investigations of partially ordered real vector spaces and the study of ordered vector spaces with interpolation properties were continued by many functional analysts since The deepest and most developed part of the theory of partially ordered groups is the theory of lattice ordered groups In the 40s following the publications of the works by G Birkhoff H Nakano and P

Groups, Modules, and Model Theory - Surveys and Recent Developments Manfred Droste, László Fuchs, Brendan Goldsmith, Lutz Strüngmann, 2017-06-02 This volume focuses on group theory and model theory with a particular emphasis on the interplay of the two areas The survey papers provide an overview

of the developments across group module and model theory while the research papers present the most recent study in those same areas. With introductory sections that make the topics easily accessible to students, the papers in this volume will appeal to beginning graduate students and experienced researchers alike. As a whole, this book offers a cross section view of the areas in group module and model theory covering topics such as DP minimal groups, Abelian groups, countable 1 transitive trees, and module approximations. The papers in this book are the proceedings of the conference New Pathways between Group Theory and Model Theory which took place February 1-4, 2016 in Mülheim an der Ruhr, Germany, in honor of the editors' colleague Rüdiger Göbel. This publication is dedicated to Professor Göbel, who passed away in 2014. He was one of the leading experts in Abelian group theory.

Orderable Groups R.B. Mura, A. Rhemtulla, 1977-02-01      **Partially Ordered Groups** Andrew Martin, William Glass, 1999. The author's style of writing is very lucid and the material presented is self-contained. It is an excellent reference text for a graduate course in this area as well as a source of material for individual reading. Bulletin of London Mathematical Society.

Infinite Group Theory: From The Past To The Future Paul Baginski, Benjamin Fine, Anthony Gaglione, 2017-12-26. The development of algebraic geometry over groups, geometric group theory, and group-based cryptography has led to there being a tremendous recent interest in infinite group theory. This volume presents a good collection of papers detailing areas of current interest.

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Fully Ordered Groups Aleksandr Il'ich Kokorin, Valerii Matveevich Kopytov, 1974      **Ordered Groups and Topology** Adam J. Clay, Dale Rolfsen, 2016. This book deals with the connections between topology and ordered groups. It begins with a self-contained introduction to orderable groups and from there explores the interactions between orderability and objects in low dimensional topology such as knot theory, braid

groups and 3-manifolds as well as groups of homeomorphisms and other topological structures. The book also addresses recent applications of orderability in the studies of codimension one foliations and Heegaard Floer homology. The use of topological methods in proving algebraic results is another feature of the book. The book with **Reverse Mathematics and Ordered Groups** David Reed Solomon, 1998 *Lattice-Ordered Groups* A.M. Glass, W.C. Holland, 2012-12-06. A lattice ordered group is a mathematical structure combining a partial order lattice structure and a group structure on a set in a compatible way. Thus it is a composite structure or a set carrying two or more simple structures in a compatible way. The field of lattice ordered groups turns up on a wide range of mathematical fields ranging from functional analysis to universal algebra. These papers address various aspects of the field with wide applicability for interested researchers. **Groups, Geometry and Dynamics**, 2008. Publishes research articles that focus on groups or group actions as well as articles in other areas of mathematics in which groups or group actions are used as a main tool. Covers all topics of modern group theory with preference given to geometric asymptotic and combinatorial group theory dynamics of group actions probabilistic and analytical methods interaction with ergodic theory and operator algebras and other related fields. **Reviews on Infinite Groups** Gilbert Baumslag, 1974 *Specialization of Residual Centrality in Groups* Roger Dale Konyndyk, 1975 *Lattice-Ordered Groups* M.E. Anderson, T.H. Feil, 1988-01-31. The study of groups equipped with a compatible lattice order lattice ordered groups or  $\ell$  groups has arisen in a number of different contexts. Examples of this include the study of ideals and divisibility dating back to the work of Dedekind and continued by Krull the pioneering work of Hahn on totally ordered abelian groups and the work of Kantorovich and other analysts on partially ordered function spaces. After the Second World War the theory of lattice ordered groups became a subject of study in its own right following the publication of fundamental papers by Birkhoff Nakano and Lorenzen. The theory blossomed under the leadership of Paul Conrad whose important papers in the 1960s provided the tools for describing the structure for many classes of  $\ell$  groups in terms of their convex  $\ell$  subgroups. A particularly significant success of this approach was the generalization of Hahn's embedding theorem to the case of abelian lattice ordered groups work done with his students John Harvey and Charles Holland. The results of this period are summarized in Conrad's blue notes C **Progress in Mathematics** R. V. Gamkrelidze, 1969 *Unsolved Problems in Group Theory*, 2002 *Mathematical Reviews*, 2006.

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