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Título: Lectures On Finitely Generated Solvable Groups

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Sinopsis

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Includes a foreword by Gilbert Baumslag, a world renowned expert in combinatorial group theory

Serves as a field guide to the class of finitely generated solvable groups from a combinatorial group theory perspective

Provides examples to help illustrate key concepts

Lectures on Finitely Generated Solvable Groups are based on the "Topics in Group Theory" course focused on finitely generated solvable groups that was given by Gilbert G. Baumslag at the Graduate School and University Center of the City University of New York. While knowledge about finitely generated nilpotent groups is extensive, much less is known about the more general class of solvable groups containing them. The study of finitely generated solvable groups involves many different threads; therefore these notes contain discussions on HNN extensions; amalgamated and wreath products; and other concepts from combinatorial group theory as well as commutative algebra. Along with Baumslag's Embedding Theorem for Finitely Generated Metabelian Groups, two theorems of Bieri and Strebel are presented to provide a solid foundation for understanding the fascinating class of finitely generated solvable groups. Examples are also supplied, which help illuminate many of the key concepts contained in the notes. Requiring only a modest initial group theory background from graduate and post-graduate students, these notes provide a field guide to the class of finitely generated solvable groups from a combinatorial group theory perspective.?

Content Level » Research

Keywords » Baumslag embedding theorem - Bieri-Strebel theorems - amalgamated and wreath products - combinatorial group theory - finitely generated solvable groups - nilpotent, polycyclic, and metabelian groups

Related subjects » Algebra