



# Geometric Group Theory (IAS/Park City Mathematics Series)

*Mladen Bestvina, Michah Sageev, Karen Vogtmann*

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Geometric group theory refers to the study of discrete groups using tools from topology, geometry, dynamics and analysis. The field is evolving very rapidly and the present volume provides an introduction to and overview of various topics which have played critical roles in this evolution. The book contains lecture notes from courses given at the Park City Math Institute on Geometric Group Theory. The institute consists of a set of intensive short courses offered by leaders in the field, designed to introduce students to exciting, current research in mathematics. These lectures do not duplicate standard courses available elsewhere. The courses begin at an introductory level suitable for graduate students and lead up to currently active topics of research. The articles in this volume include introductions to  $CAT(0)$  cube complexes and groups, to modern small cancellation theory, to isometry groups of general  $CAT(0)$  spaces, and a discussion of nilpotent genus in the context of mapping class groups and  $CAT(0)$  groups. One course surveys quasi-isometric rigidity, others contain an exploration of the geometry of Outer space, of actions of arithmetic groups, lectures on lattices and locally symmetric spaces, on marked length spectra and on expander graphs, Property tau and approximate groups. This book is a valuable resource for graduate students and researchers interested in geometric group theory.

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