



Topics in Geometric Group Theory (Chicago Lectures in Mathematics)

By Pierre de la Harpe

Download now

Read Online 

Topics in Geometric Group Theory (Chicago Lectures in Mathematics) By Pierre de la Harpe

In this book, Pierre de la Harpe provides a concise and engaging introduction to geometric group theory, a new method for studying infinite groups via their intrinsic geometry that has played a major role in mathematics over the past two decades. A recognized expert in the field, de la Harpe adopts a hands-on approach, illustrating key concepts with numerous concrete examples.

The first five chapters present basic combinatorial and geometric group theory in a unique and refreshing way, with an emphasis on finitely generated versus finitely presented groups. In the final three chapters, de la Harpe discusses new material on the growth of groups, including a detailed treatment of the "Grigorchuk group." Most sections are followed by exercises and a list of problems and complements, enhancing the book's value for students; problems range from slightly more difficult exercises to open research problems in the field. An extensive list of references directs readers to more advanced results as well as connections with other fields.

 [Download Topics in Geometric Group Theory \(Chicago Lectures ...pdf](#)

 [Read Online Topics in Geometric Group Theory \(Chicago Lectur ...pdf](#)

Topics in Geometric Group Theory (Chicago Lectures in Mathematics)

By Pierre de la Harpe

Topics in Geometric Group Theory (Chicago Lectures in Mathematics) By Pierre de la Harpe

In this book, Pierre de la Harpe provides a concise and engaging introduction to geometric group theory, a new method for studying infinite groups via their intrinsic geometry that has played a major role in mathematics over the past two decades. A recognized expert in the field, de la Harpe adopts a hands-on approach, illustrating key concepts with numerous concrete examples.

The first five chapters present basic combinatorial and geometric group theory in a unique and refreshing way, with an emphasis on finitely generated versus finitely presented groups. In the final three chapters, de la Harpe discusses new material on the growth of groups, including a detailed treatment of the "Grigorchuk group." Most sections are followed by exercises and a list of problems and complements, enhancing the book's value for students; problems range from slightly more difficult exercises to open research problems in the field. An extensive list of references directs readers to more advanced results as well as connections with other fields.

Topics in Geometric Group Theory (Chicago Lectures in Mathematics) By Pierre de la Harpe Bibliography

- Sales Rank: #402775 in Books
- Brand: Brand: University Of Chicago Press
- Published on: 2000-09-15
- Original language: English
- Number of items: 1
- Dimensions: 9.00" h x .80" w x 6.00" l, .90 pounds
- Binding: Paperback
- 310 pages

 [Download Topics in Geometric Group Theory \(Chicago Lectures ...pdf](#)

 [Read Online Topics in Geometric Group Theory \(Chicago Lectur ...pdf](#)

Download and Read Free Online Topics in Geometric Group Theory (Chicago Lectures in Mathematics) By Pierre de la Harpe

Editorial Review

From the Inside Flap

Groups as abstract structures were first recognized by mathematicians in the nineteenth century. Groups are, of course, sets given with appropriate "multiplications," and they are often given together with actions on interesting geometric objects. But groups are also interesting geometric objects by themselves. More precisely, a finitely-generated group can be seen as a metric space, the distance between two points being defined "up to quasi-isometry" by some "word length," and this gives rise to a very fruitful approach to group theory.

In this book, Pierre de la Harpe provides a concise and engaging introduction to this approach, a new method for studying infinite groups via their intrinsic geometry that has played a major role in mathematics over the past two decades. A recognized expert in the field, de la Harpe uses a hands-on presentation style, illustrating key concepts of geometric group theory with numerous concrete examples.

The first five chapters present basic combinatorial and geometric group theory in a unique way, with an emphasis on finitely-generated versus finitely-presented groups. In the final three chapters, de la Harpe discusses new material on the growth of groups, including a detailed treatment of the "Grigorchuk group," an infinite finitely-generated torsion group of intermediate growth which is becoming more and more important in group theory. Most sections are followed by exercises and a list of problems and complements, enhancing the book's value for students; problems range from slightly more difficult exercises to open research questions in the field. An extensive list of references directs readers to more advanced results as well as connections with other subjects.

About the Author

Pierre de la Harpe is a professor of mathematics at the Université de Genève, Switzerland. He is the author, coauthor, or coeditor of several books, including *La propriété (T) de Kazhdan pour les groupes localement compacts* and *Sur les groupes hyperboliques d'après Mikhael Gromov*.

Users Review

From reader reviews:

Wendy Miller:

Book is to be different for every grade. Book for children until eventually adult are different content. We all know that that book is very important usually. The book Topics in Geometric Group Theory (Chicago Lectures in Mathematics) had been making you to know about other understanding and of course you can take more information. It is very advantages for you. The book Topics in Geometric Group Theory (Chicago Lectures in Mathematics) is not only giving you far more new information but also to become your friend when you feel bored. You can spend your current spend time to read your publication. Try to make relationship while using book Topics in Geometric Group Theory (Chicago Lectures in Mathematics). You never really feel lose out for everything in the event you read some books.

Theo Garcia:

This Topics in Geometric Group Theory (Chicago Lectures in Mathematics) book is simply not ordinary book, you have after that it the world is in your hands. The benefit you obtain by reading this book will be information inside this guide incredible fresh, you will get information which is getting deeper an individual read a lot of information you will get. This specific Topics in Geometric Group Theory (Chicago Lectures in Mathematics) without we understand teach the one who reading it become critical in pondering and analyzing. Don't always be worry Topics in Geometric Group Theory (Chicago Lectures in Mathematics) can bring once you are and not make your handbag space or bookshelves' come to be full because you can have it inside your lovely laptop even phone. This Topics in Geometric Group Theory (Chicago Lectures in Mathematics) having excellent arrangement in word and layout, so you will not experience uninterested in reading.

Lena Garcia:

Information is provisions for individuals to get better life, information presently can get by anyone at everywhere. The information can be a understanding or any news even a problem. What people must be consider while those information which is inside the former life are challenging be find than now's taking seriously which one is appropriate to believe or which one often the resource are convinced. If you get the unstable resource then you have it as your main information you will see huge disadvantage for you. All those possibilities will not happen within you if you take Topics in Geometric Group Theory (Chicago Lectures in Mathematics) as the daily resource information.

Cherry Simard:

What is your hobby? Have you heard which question when you got scholars? We believe that that question was given by teacher to their students. Many kinds of hobby, All people has different hobby. So you know that little person like reading or as reading through become their hobby. You need to know that reading is very important in addition to book as to be the thing. Book is important thing to increase you knowledge, except your personal teacher or lecturer. You will find good news or update with regards to something by book. Many kinds of books that can you decide to try be your object. One of them is niagra Topics in Geometric Group Theory (Chicago Lectures in Mathematics).

**Download and Read Online Topics in Geometric Group Theory
(Chicago Lectures in Mathematics) By Pierre de la Harpe
#WUG310JHQ2I**

Read Topics in Geometric Group Theory (Chicago Lectures in Mathematics) By Pierre de la Harpe for online ebook

Topics in Geometric Group Theory (Chicago Lectures in Mathematics) By Pierre de la Harpe Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Topics in Geometric Group Theory (Chicago Lectures in Mathematics) By Pierre de la Harpe books to read online.

Online Topics in Geometric Group Theory (Chicago Lectures in Mathematics) By Pierre de la Harpe ebook PDF download

Topics in Geometric Group Theory (Chicago Lectures in Mathematics) By Pierre de la Harpe Doc

Topics in Geometric Group Theory (Chicago Lectures in Mathematics) By Pierre de la Harpe Mobipocket

Topics in Geometric Group Theory (Chicago Lectures in Mathematics) By Pierre de la Harpe EPub