



Lie Algebras and Lie Groups: 1964 Lectures given at Harvard University (Lecture Notes in Mathematics)

Jean-Pierre Serre

Download now

[Click here](#) if your download doesn't start automatically

Lie Algebras and Lie Groups: 1964 Lectures given at Harvard University (Lecture Notes in Mathematics)

Jean-Pierre Serre

Lie Algebras and Lie Groups: 1964 Lectures given at Harvard University (Lecture Notes in Mathematics) Jean-Pierre Serre

The main general theorems on Lie Algebras are covered, roughly the content of Bourbaki's Chapter I. I have added some results on free Lie algebras, which are useful, both for Lie's theory itself (Campbell-Hausdorff formula) and for applications to pro-Lie groups. Time prevented me from including the more precise theory of Lie semisimple Lie algebras (roots, weights, etc.); but, at least, I have given, as a last Chapter, the typical case of a reductive Lie algebra. This part has been written with the help of F. Raggi and J. Tate. I want to thank them, and also Sue Golan, who did the typing for both parts.

Jean-Pierre Serre Harvard, Fall 1964 Chapter I. Lie Algebras: Definition and Examples Let \mathfrak{L} be a commutative ring with unit element, and let A be a \mathfrak{L} -module, then A is said to be a Lie algebra if there is given a \mathfrak{L} -bilinear map $A \times A \rightarrow A$ (i.e., a \mathfrak{L} -homomorphism $A \otimes A \rightarrow A$). As usual we may define left, right and two-sided ideals and therefore quotients.

Definition 1. A Lie algebra over \mathfrak{L} is an algebra with the following properties: 1) The map $A \otimes A \rightarrow A$ admits a factorization $A \otimes A \rightarrow A \otimes A \rightarrow A$ i.e., if we denote the image of (x, y) under this map by $[x, y]$ then the condition becomes for all $x, y \in A$: $[x, x] = 0$ 2) $([x, y], z) + (y, [x, z]) + (z, [x, y]) = 0$ (Jacobi's identity) The condition 1) implies $[x, 1] = -[1, x]$

 [Download Lie Algebras and Lie Groups: 1964 Lectures given a ...pdf](#)

 [Read Online Lie Algebras and Lie Groups: 1964 Lectures given ...pdf](#)

Download and Read Free Online Lie Algebras and Lie Groups: 1964 Lectures given at Harvard University (Lecture Notes in Mathematics) Jean-Pierre Serre

From reader reviews:

Carrie Wakefield:

What do you ponder on book? It is just for students because they are still students or that for all people in the world, the particular best subject for that? Just simply you can be answered for that issue above. Every person has various personality and hobby for each and every other. Don't to be pressured someone or something that they don't would like do that. You must know how great as well as important the book Lie Algebras and Lie Groups: 1964 Lectures given at Harvard University (Lecture Notes in Mathematics). All type of book can you see on many solutions. You can look for the internet solutions or other social media.

Doreen Williams:

What do you regarding book? It is not important to you? Or just adding material when you want something to explain what your own problem? How about your spare time? Or are you busy man or woman? If you don't have spare time to accomplish others business, it is make one feel bored faster. And you have spare time? What did you do? All people has many questions above. They must answer that question mainly because just their can do which. It said that about publication. Book is familiar on every person. Yes, it is right. Because start from on jardín de infancia until university need this kind of Lie Algebras and Lie Groups: 1964 Lectures given at Harvard University (Lecture Notes in Mathematics) to read.

Billy Shaner:

In this 21st century, people become competitive in most way. By being competitive right now, people have do something to make them survives, being in the middle of typically the crowded place and notice through surrounding. One thing that sometimes many people have underestimated this for a while is reading. Yep, by reading a guide your ability to survive boost then having chance to endure than other is high. For you who want to start reading a book, we give you this kind of Lie Algebras and Lie Groups: 1964 Lectures given at Harvard University (Lecture Notes in Mathematics) book as beginning and daily reading guide. Why, because this book is usually more than just a book.

Carmine Caulfield:

Publication is one of source of knowledge. We can add our understanding from it. Not only for students and also native or citizen require book to know the update information of year to help year. As we know those guides have many advantages. Beside most of us add our knowledge, could also bring us to around the world. From the book Lie Algebras and Lie Groups: 1964 Lectures given at Harvard University (Lecture Notes in Mathematics) we can get more advantage. Don't you to be creative people? Being creative person must love to read a book. Merely choose the best book that acceptable with your aim. Don't become doubt to change your life by this book Lie Algebras and Lie Groups: 1964 Lectures given at Harvard University (Lecture Notes in Mathematics). You can more attractive than now.

**Download and Read Online Lie Algebras and Lie Groups: 1964
Lectures given at Harvard University (Lecture Notes in
Mathematics) Jean-Pierre Serre #72XJW4BMT6K**

Read Lie Algebras and Lie Groups: 1964 Lectures given at Harvard University (Lecture Notes in Mathematics) by Jean-Pierre Serre for online ebook

Lie Algebras and Lie Groups: 1964 Lectures given at Harvard University (Lecture Notes in Mathematics) by Jean-Pierre Serre Free PDF download, 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 Lie Algebras and Lie Groups: 1964 Lectures given at Harvard University (Lecture Notes in Mathematics) by Jean-Pierre Serre books to read online.

Online Lie Algebras and Lie Groups: 1964 Lectures given at Harvard University (Lecture Notes in Mathematics) by Jean-Pierre Serre ebook PDF download

Lie Algebras and Lie Groups: 1964 Lectures given at Harvard University (Lecture Notes in Mathematics) by Jean-Pierre Serre Doc

Lie Algebras and Lie Groups: 1964 Lectures given at Harvard University (Lecture Notes in Mathematics) by Jean-Pierre Serre Mobipocket

Lie Algebras and Lie Groups: 1964 Lectures given at Harvard University (Lecture Notes in Mathematics) by Jean-Pierre Serre EPub