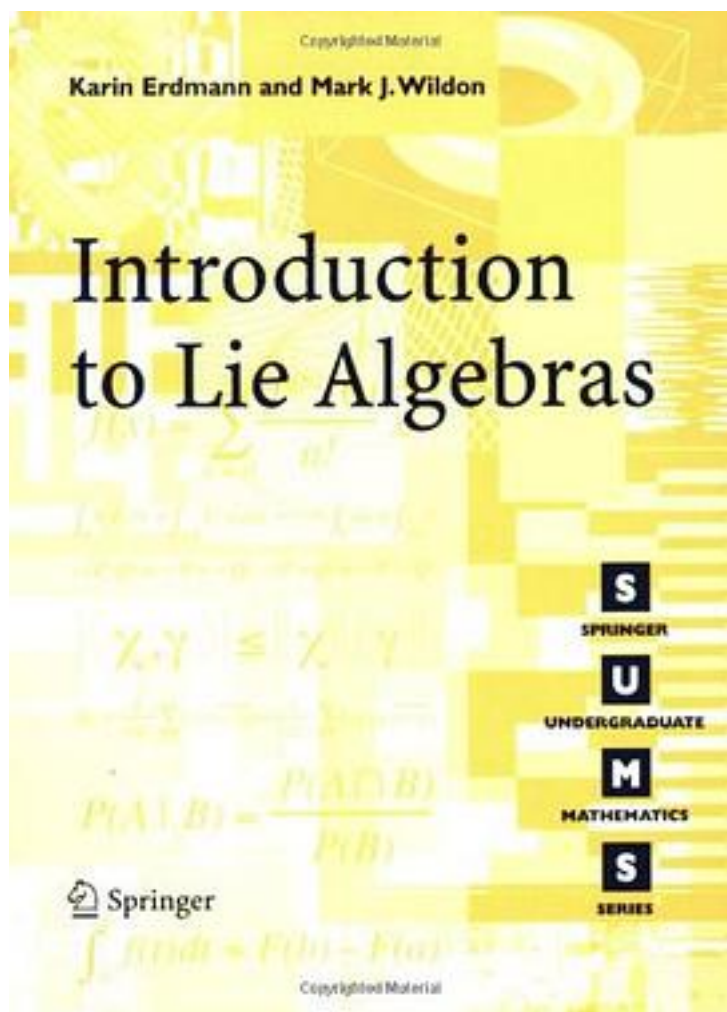# Introduction to Lie Algebras

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Lie groups and Lie algebras have become essential to many parts of mathematics and

theoretical physics, with Lie algebras a central object of interest in their own right. This book provides an elementary introduction to Lie algebras based on a lecture course given to fourth-year undergraduates. The only prerequisite is some linear algebra and an appendix summarizes the main facts that are needed. The treatment is kept as simple as possible with no attempt at full generality. Numerous worked examples and exercises are provided to test understanding, along with more demanding problems, several of which have solutions. Introduction to Lie Algebras covers the core material required for almost all other work in Lie theory and provides a self-study guide suitable for undergraduate students in their final year and graduate students and researchers in mathematics and theoretical physics.

作者介绍:

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标签

李代数

李群

数学

代数

表示论

to

algebras

Springer

评论

我的李代数入门书

跟楼上一样。。也是边gtm9边看这本。。

看GTM9多参考这个轻松点

有不少笔误。整体挺好读的，适合初学者自学，只要会基础线代就能读了。可以边读Humphreys (GTM9)
边读这本，思路基本一样（有些比较高级的证明改用基础线代），但这本细节更清楚，
但没有表示论的部分，只有李代数的structure theory。

看过Humphreys的书后才看这个的, 这个读起来轻松, 习题也不错,
适合本科生初学李代数.

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书评

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