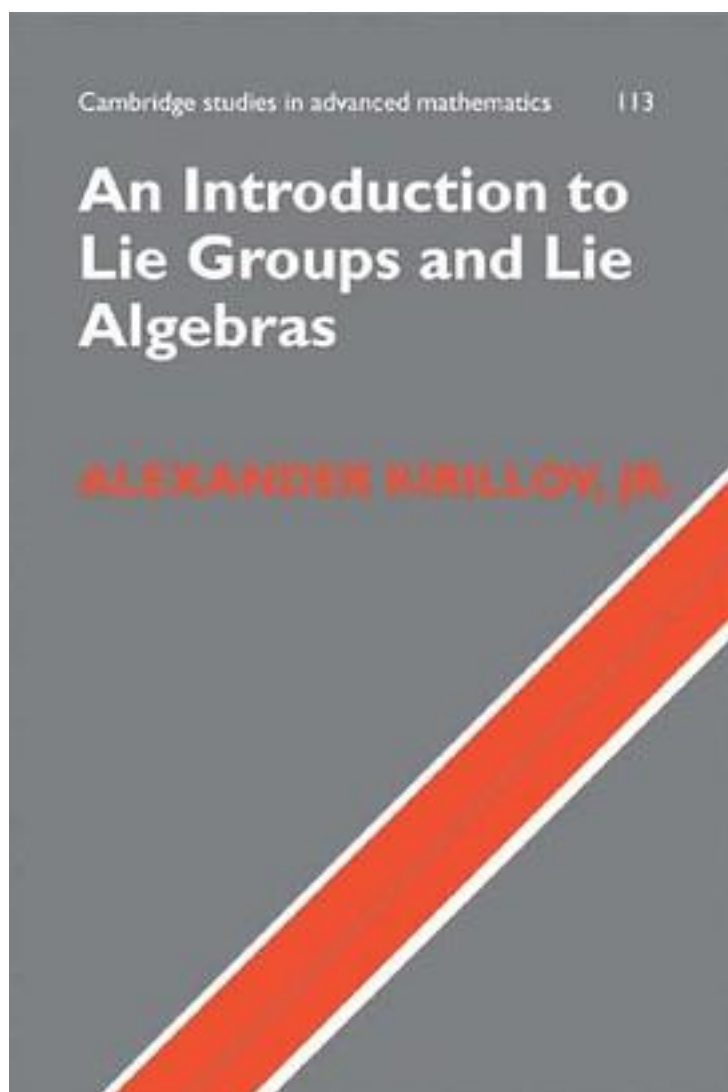


# An Introduction to Lie Groups and Lie Algebras (Cambridge Studies in Advanced Mathematics)



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著者:Alexander Kirillov Jr

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With roots in the nineteenth century, Lie theory has since found many and varied applications in mathematics and mathematical physics, to the point where it is now regarded as a classical branch of mathematics in its own right. This 2008 graduate text focuses on the study of semisimple Lie algebras, developing the necessary theory along the way. The material covered ranges from basic definitions of Lie groups to the classification of finite-dimensional representations of semisimple Lie algebras. Written in an informal style, this is a contemporary introduction to the subject which emphasizes the main concepts of the proofs and outlines the necessary technical details, allowing the material to be conveyed concisely. Based on a lecture course given by the author at the State University of New York at Stony Brook, the book includes numerous exercises and worked examples and is ideal for graduate courses on Lie groups and Lie algebras.

作者介绍:

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标签

数学

Lie-theory

代数

Mathematics

分析

美国

李群

教材

评论

本书是入门书，关于流形的证明比较简略；李代数的表示就是李代数的模，差别仅仅在历史原因

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我心目中数学教材的典范

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本科生李群李代数极好的入门教材. 需要一定的流形基础, 有了几何基础才好理解李群和李代数之间的联系.

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书评

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