

李群与李代数I:李理论基础，李交换群

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《国外数学名著系列(续一)(影印版)61:李群与李代数1(李理论基础李交换群)》主要内容：The book by Gorbatsevich, Onishchik and Vinberg is the first volume in a subseries of the Encyclopaedia devoted to the theory of Lie groups and Lie algebras.

The first part of the book deals with the foundations of the theory based on the classical global approach of Chevalley followed by an exposition of the alternative approach via the universal enveloping algebra and the Campbell-Hausdorff formula. It also contains a survey of certain generalizations of Lie groups.

The second more advanced part treats the topic of Lie transformation groups covering e.g. properties of orbits and stabilizers, homogeneous fibre bundles, Frobenius duality, groups of automorphisms of geometric structures, Lie algebras of vector fields and the existence of slices. The work of the last decades including the most recent research results is covered.

The book contains numerous examples and describes connections with topology, differential geometry, analysis and applications. It is written for graduate students and researchers in mathematics and theoretical physics.

作者介绍:

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标签

数学

评论

这套三本书写的很全。一般李代数的书要么是注重表示论，要么是注重代数关系，要么是注重李群李代数的对应，非重点的定理就放到附录甚至根本不提。这本书算是把李代数基础知识该有的都写了。

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书评

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