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<<李群与李代数III>>

图书基本信息

书名：<<李群与李代数III>>

13位ISBN编号：9787030235060

10位ISBN编号：7030235061

出版时间：2009-1

出版时间：科学出版社

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页数：248

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前言

要使我国的数学事业更好地发展起来，需要数学家淡泊名利并付出更艰苦地努力。另一方面，我们也要从客观上为数学家创造更有利的发展数学事业的外部环境，这主要是加强对数学事业的支持与投资力度，使数学家有较好的工作与生活条件，其中也包括改善与加强数学的出版工作。

从出版方面来讲，除了较好较快地出版我们自己的成果外，引进国外的先进出版物无疑也是十分重要与必不可少的。

从数学来说，施普林格（springer）出版社至今仍然是世界上最具权威的出版社。

科学出版社影印一批他们出版的好的新书，使我国广大数学家能以较低的价格购买，特别是在边远地区工作的数学家能普遍见到这些书，无疑是对推动我国数学的科研与教学十分有益的事。

这次科学出版社购买了版权，一次影印了23本施普林格出版社出版的数学书，就是一件好事，也是值得继续做下去的事情。

大体上分一下，这23本书中，包括基础数学书5本，应用数学书6本与计算数学书12本，其中有些书也具有交叉性质。

这些书都是很新的，2000年以后出版的占绝大部分，共计16本，其余的也是1990年以后出版的。

这些书可以使读者较快地了解数学某方面的前沿，例如基础数学中的数论、代数与拓扑三本，都是由该领域大数学家编著的“数学百科全书”的分册。

对从事这方面研究的数学家了解该领域的前沿与全貌很有帮助。

按照学科的特点，基础数学类的书以“经典”为主，应用和计算数学类的书以“前沿”为主。

这些书的作者多数是国际知名的大数学家，例如《拓扑学》一书的作者诺维科夫是俄罗斯科学院的院士，曾获“菲尔兹奖”和“沃尔夫数学奖”。

这些大数学家的著作无疑将会对我国的科研人员起到非常好的指导作用。

当然，23本书只能涵盖数学的一部分，所以，这项工作还应该继续做下去。

更进一步，有些读者面较广的好书还应该翻译成中文出版，使之有更大的读者群。

总之，我对科学出版社影印施普林格出版社的部分数学著作这一举措表示热烈的支持，并盼望这一工作取得更大的成绩。

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内容概要

The book contains a comprehensive account of the structure and classification of Lie groups and finite-dimensional Lie algebras (including semisimple，solvable，and of general type). In particular，a modem approach to the description of automorphisms and gradings of semisimple Lie algebras is given. A special chapter is devoted to models of the exceptional Lie algebras. The book contains many tables and will serve as a reference. At the same time many results are accompanied by short proofs. Onishchik and Vinberg are internationally known specialists in their field; they are also well known for their monograph“Lie Groups and Algebraic Groups”(Springer-Verlag 1990). The book will be immensely useful to graduate students in differential geometry，algebra and theoretical physics.

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编辑推荐

《国外数学名著系列（续1）（影印版）63：李群与李代数3（李群与李代数的结构）》为《国外数学名著系列》丛书之一。
该丛书是科学出版社组织学术界多位知名院士、专家精心筛选出来的一批基础理论类数学著作，读者对象面向数学系高年级本科生、研究生及从事数学专业理论研究的科研工作者。
本册为《李群与李代数（Ⅲ李群与李代数的结构影印版）63》，《国外数学名著系列（续1）（影印版）63：李群与李代数3（李群与李代数的结构）》包含了全面的结构和分类，李群和有限维李代数（包括半，解和普通型）。

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