第一图书网, tushu007.com

<<群论导论>>

图书基本信息

书名：<<群论导论>>

13位ISBN编号：9787510004988

10位ISBN编号：7510004985

出版时间：2009-8

出版时间：世界图书出版公司

作者：罗曼

页数：513

版权说明：本站所提供下载的PDF图书仅提供预览和简介，请支持正版图书。

更多资源请访问：http://www.tushu007.com

第一图书网, tushu007.com

前言

Group Theory is a vast subject and, in this Introduction （as well as in theearlier editions）, I have tried to select important and representative theoremsand to organize them in a coherent way. Proofs must be clear, and examplesshould illustrate theorems and also explain the presence of restrictive hypo-theses. ！
also believe that some history should be given so that one canunderstand the origin of problems and the context in which the subjectdeveloped. Just as each of the earlier editions differs from the previous one in a signifi-cant way, the present （fourth） edition is genuinely different from the third.Indeed, this is already apparent in the Table of Contents. The book nowbegins with the unique factorization of permutations into disjoint cycles andthe parity of permutations; only then is the idea of group introduced. This isconsistent with the history of Group Theory, for these first results on permu-tations can be found in an 1815 paper by Cauchy, whereas groups of permu-tations were not introduced until 1831 （by Galois） But even if history wereotherwise, I feel that it is usually good pedagogy to introduce a generalnotion only after becoming comfortable with an important special case. Ihave also added several new sections, and I have subtracted the chapter onHomologieal Algebra （although the section on Horn functors and charactergroups has been retained） and the section on Grothendieck groups. The format of the book has been changed a bit: almost all exercises nowoccur at ends of sections, so as not to interrupt the exposition. There areseveral notational changes from earlier editions: I now write insteadof to denote "H is a subgroup of G"; the dihedral group of order2n is now denoted by instead of by ; the trivial group is denoted by ！ instead of by {1}; in the discussion of simple linear groups, I now distinguishelementary traesvections from more general transvections;

第一图书网, tushu007.com

<<群论导论>>

内容概要

《群论导论(第4版)(英文版)》介绍了：Group Theory is a vast subject and, in this Introduction （as well as in theearlier editions）, I have tried to select important and representative theoremsand to organize them in a coherent way. Proofs must be clear, and examplesshould illustrate theorems and also explain the presence of restrictive hypo-theses. ！
also believe that some history should be given so that one canunderstand the origin of problems and the context in which the subjectdeveloped. Just as each of the earlier editions differs from the previous one in a signifi-cant way, the present （fourth） edition is genuinely different from the third.Indeed, this is already apparent in the Table of Contents. The book nowbegins with the unique factorization of permutations into disjoint cycles andthe parity of permutations; only then is the idea of group introduced. This isconsistent with the history of Group Theory, for these first results on permu-tations can be found in an 1815 paper by Cauchy, whereas groups of permu-tations were not introduced until 1831 （by Galois） But even if history

第一图书网, tushu007.com

作者简介

作者：(美国)罗曼(Joseph J.Rotman)

第一图书网, tushu007.com

<<群论导论>>

书籍目录

Preface to the Fourth EditionFrom Preface to the Third EditionTo the ReaderCHAPTER 1 Groups and Homomorphisms Permutations Cycles Factorization into Disjoint Cycles Even and Odd Permutations Semigroups Groups HomomorphismsCHAPTER 2 The Isomorphism Theorems Subgroups Lagrange's Theorem Cyclic Groups Normal Subgroups Quotient Groups The Isomorphism Theorems Correspondence Theorem Direct ProductsCHAPTER 3 Symmetric Groups and G-Sets Conjugates Symmetric Groups The Simplicity of A. Some Representation Theorems G-Sets Counting Orbits Some GeometryCHAPTER 4 The Sylow Theorems p-Groups The Sylow Theorems Groups of Small OrderCHAPTER 5 Normal Series Some Galois Theory The Jordan-Ho1der Theorem Solvable Groups Two Theorems of P. Hall Central Series and Nilpotent Groups p-GroupsCHAPTER 6 Finite Direct Products The Basis Theorem The Fundamental Theorem of Finite Abelian Groups Canonical Forms; Existence Canonical Forms; Uniqueness The KrulI-Schmidt Theorem Operator GroupsCHAPTER 7 Extensions and Cohomology The Extension Problem Automorphism Groups Semidirect Products Wreath Products Factor Sets Theorems of Schur-Zassenhaus and GaschiJtz Transfer and Burnside's Theorem Projective Representations and the Schur Multiplier DerivationsCHAPTER 8 Some Simple Linear Groups ……CHAPTER 9 Permutations and the Mathieu GroupsCHAPTER 10 Abelian GroupsCHAPTER 11 Free Groups and Free ProductsCHAPTER 12 The Word ProblemEpilogueBibliographyNotationIndex

第一图书网, tushu007.com

编辑推荐

《群论导论(第4版)(英文版)》是由世界图书出版公司出版的。

第一图书网, tushu007.com

版权说明

本站所提供下载的PDF图书仅提供预览和简介，请支持正版图书。

更多资源请访问:http://www.tushu007.com