

《抽象代数基本教程》

图书基本信息

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内容概要

《抽象代数基本教程(第7版)》是一部介绍抽象代数的入门书籍。假定学生了解了微积分和线性代数，并且理论大都在书中以例子和练习的形式出现。该书旨在教给学生尽可能多的群，环，以及域理论，最大特点是包含了较多的扎实的基础部分，这些部分对于更进一步的学习代数是有很大的帮助的。为了满足更多读者的要求，《抽象代数基本教程(第7版)》包含了很多有关拓扑中的同调群，同调群的计算以加深对因子群的理解。书中内容浅显易懂，为了将同调群讲述的更加清楚，在第6版的基础上减少了自动机，二进制线性密码以及部分代数结构。书后面附有不少练习，这些加深学生对内容的理解。

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书籍目录

Instructor's Preface Student's Preface Dependence Chart Sets and Relations GROUPS AND SUBGROUPS Introduction and Examples Binary Operations Isomorphic Binary Structures Groups Subgroups Cyclic Groups Generating Sets and Cayley Digraphs PERMUTATIONS, COSETS, AND DIRECT PRODUCTS Groups of Permutations Orbits, Cycles, and the Alternating Groups Cosets and the Theorem of Lagrange Direct Products and Finitely Generated Abelian Groups Plane Isometries HOMOMORPHISMS AND FACTOR GROUPS Homomorphisms Factor Groups Factor-Group Computations and Simple Groups Group Action on a Set Applications of G-Sets to Counting RINGS AND FIELDS Rings and Fields Integral Domains Fermat's and Euler's Theorems The Field of Quotients of an Integral Domain Rings of Polynomials Factorization of Polynomials over a Field Noncommutative Examples Ordered Rings and Fields IDEALS AND FACTOR RINGS Homomorphisms and Factor Rings Prime and Maximal Ideals Grobner Bases for Ideals EXTENSION FIELDS Introduction to Extension Fields Vector Spaces Algebraic Extensions Geometric Constructions Finite Fields ADVANCED GROUP THEORY Isomorphism Theorems Series of Groups Sylow Theorems Applications of the Sylow Theory Free Abelian Groups Free Groups Group Presentations GROUPS IN TOPOLOGY Simplicial Complexes and Homology Groups Computations of Homology Groups More Homology Computations and Applications Homological Algebra FACTORIZATION Unique Factorization Domains Euclidean Domains Gaussian Integers and Multiplicative Norms AUTOMORPHISMS AND GALOIS THEORY Automorphisms of Fields The Isomorphism Extension Theorem Splitting Fields Separable Extensions Totally Inseparable Extensions Galois Theory Illustrations of Galois Theory Cyclotomic Extensions Insolvability of the Quintic Appendix: Matrix Algebra Bibliography Notations Answers to Odd-Numbered Exercises Not Asking for Definitions or Proofs Index

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章节摘录

插图：

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编辑推荐

《抽象代数基本教程(第7版)》由世界图书出版公司出版。

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精彩短评

- 1、你妹的世图，就知道糟蹋书，字体这么小，根本没法看。直接给退了。
- 2、很好的参考书,写的浅显易懂,与别的经典(lang,hungeford,artin)一起看会起到事半功倍的效果.
- 3、结构清晰，很有条理，例子详实；纸张质量比较糟糕。
- 4、内容组织的还是不错的，篇幅稍微长了点，加些模的内容就更好了。
- 5、确实很基本，不过初学者多看点例子还是更好理解这一门的
- 6、严重质量问题，退货了！
- 7、Great reference book. It assumes nothing on the reader's part at the very beginning, and then builds on gradually in difficulty. It has many interesting exercises (not as difficult as those in Chinese books) to facilitate your understanding. A quotation from the book: "Never underestimate a theorem that counts something..."
- 8、UCB数学系用书.....

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