

<<华罗庚文集 代数卷 II>>

图书基本信息

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内容概要

本书汇集了华罗庚先生1930—1952年关于代数和矩阵几何的代表性论文22篇，以及万哲先关于华罗庚在代数和几何领域成就的一篇介绍文章。

华罗庚的论文内容深刻，技巧性很强，要求的预备知识并不多。本书适合数学专业的研究生和研究人员阅读，大学数学系的高年级学生也能读懂其中大部分内容。

书籍目录

- 《华罗庚文集》序言
Algebra and geometry.
苏家驹之代数的五次方程式解法不能成立之理由
Geometries of matrices. I. Generalizations of von Staudt's theorem
Geometries of matrices. II. Arithmetical construction
Orthogonal classification of Hermitian matrices
Geometries of matrices. II. Study of involutions in the geometry of symmetric matrices
Geometries of matrices. III. Fundamental theorems in the geometries of symmetric matrices
Some "Anzahl" theorems for groups of prime power orders
On the automorphisms of the symplectic group over any field
On the existence of solutions of certain equations in a finite field
Characters over certain types of rings with applications to the theory of equations in a finite field
On the automorphisms of a sfield
On the number of solutions of some trinomial equations in a finite field
On the nature of the solutions of certain equations in, a finite field
Some properties of a sfield
On the generators of the symplectic modular group
Geometry of symmetric matrices over any field with characteristic other than two
On the multiplicative group of a field
环之准同构及对射影几何的一应用
A theorem on matrices over a sfield and its applications
Supplement to the paper of Dieudonn on the automorphisms of classical groups
Automorphisms of the unimodular group
Automorphisms of the projective unimodular group
《华罗庚文集》已出版书目

章节摘录

版权页：插图：It was first shown in the author's recent investigations on the theory of auto-morphic functions of a matrix-variable that there are three types of geometry playing important roles. Besides their applications, the author obtained a great many results which seem to be interesting in themselves. The main object of the paper is to generalize a theorem due to von Staudt, which is known as the fundamental theorem of the geometry in the complex domain. The statement of the theorem is: Every topological transformation of the complex plane into itself, which leaves the relation of harmonic separation invariant, is either a collineation or an anti-collineation. Since the fields and groups may be varied, several generalizations of von Staudt's theorem will be given. The proofs of the theorems have interesting corollaries. The paper contains also some fundamental results which will be useful in succeeding papers.

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