# <<代数数论讲义>>

### 图书基本信息

书名:<<代数数论讲义>>

13位ISBN编号:9787506201070

10位ISBN编号:7506201070

出版时间:2000-12

出版时间:世界图书出版公司

作者: Erich Hecke

页数:242

字数:11

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

## <<代数数论讲义>>

### 内容概要

Hecke was certainly one of the masters, and in fact, the study of Hecke Lseries and Hecke operators has permanently embedded his name in the fabric of number theory. It is a rare occurrence when a master writes a basic book, and Hecke 's Lectures on the Theory of Algebraic Numbers has become a classic. To quote another master, Andre Weil: "To improve upon Hecke, in a treatment along classical lines of the theory of algebraic numbers, would be a futile and impossible task."

## <<代数数论讲义>>

#### 书籍目录

CHAPTER Elements of Rational Number Theory 1. Divisibility, Greatest Common Divisors, Modules, Prime Numbers, and the Fundamental Theorem of Number Theory Theorems 1-5 2. Congruences and Residue Classes Euler''sfunction (n). Ferrnat''s theorem. Theorems 6-9 3. Integral Polynomials, Functional Congruences, and Divisibility mod p Theorems IO-13a 4. Congruences of the First Degree Theorems Abelian Groups 5. The General Group Concept and Calculation with Elements of a Group Theorems 16-18 6. Subgroups and Division of a Group by a Subgroup Order of elements. Theorems 19-21 7. Abelian Groups and the Product of Two Abelian Groups Theorems 22-25 8. Basis of an Abelian Group The basis number or a group belonging to a prime number. Cyclic groups. Theorems 26-28 9. Composition of Cosets and the Factor Group Theorem 29 10. Characters of Abelian Groups The group of characters. Determination of all subgroups. Theorems 30-33 11. Infinite Abelian Groups Finite basis of such a group and basis for a subgroup. Theorems 34-40CHAPTER Abelian Groups in Rational Number Theory 12. Groups of Integers under Addition and Multiplication Theorem 41 13. Structure of the Group R n of the Residue Classes mod n Relatively Prime to nPrimitive numbers mod p and mod p2. Theorems 42-45 14. Power Residues Binomial congruences. Theorems 46-47 15. Residue Characters of Numbers mod n 16. Quadratic Residue Characters mod n On the Algebra of Number Fields 17. Number Fields, Polynomials over Number quadratic reciprocity lawCHAPTER Fields, and Irreducibility Theorems 48-49 18. Algebraic Numbers over k Theorems 50-519 19. Algebraic Number Fields over k Simultaneous ad unction of several numbers. The conjugate numbers. Theorems 52-55 20. Generating Field Elements, Fundamental Systems, and Subfields of K0 Theorems 56-59CHAPTER V General Arithmetic of Algebraic Number Fields 21. Definition of Algebraic Integers, Divisibility, and Units Theorems 60-63 22. The Integers of a Field as an Abelian Group: Basis and Discriminant of the Field Moduli. Theorem 64 23. Factorization of Integers in K: Greatest Common Divisors which Do Not Belong to the Field 24. Definition and Basic Properties of Ideals Product of ideals. ......CHAPTER VI Introduction of Transcendental Methods into the CHAPTER The Quadratic Number FieldCHAPTER The Law of Quadratic Reciprocity in Arbitrary Number FieldsChronological TableReferences

# <<代数数论讲义>>

### 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