



## Basic Number Theory

By Weil, Andre

Book Condition: New. Publisher/Verlag: Springer, Berlin | From the reviews: "L.R. Shafarevich showed me the first edition [...] and said that this book will be from now on the book about class field theory. In fact it is by far the most complete treatment of the main theorems of algebraic number theory, including function fields over finite constant fields, that appeared in book form." Zentralblatt MATH | I. Elementary Theory.- I. Locally compact fields.- 1. Finite fields.- 2. The module in a locally compact field.- 3. Classification of locally compact fields.- 4. Structure of  $p$ -fields.- II. Lattices and duality over local fields.- 1. Norms.- 2. Lattices.- 3. Multiplicative structure of local fields.- 4. Lattices over  $\mathbb{R}$ .- 5. Duality over local fields.- III. Places of  $A$ -fields.- 1.  $A$ -fields and their completions.- 2. Tensor-products of commutative fields.- 3. Traces and norms.- 4. Tensor-products of  $A$ -fields and local fields.- IV. Adeles.- 1. Adeles of  $A$ -fields.- 2. The main theorems.- 3. Ideles.- 4. Ideles of  $A$ -fields.- V. Algebraic number-fields.- 1. Orders in algebras over  $\mathbb{Q}$ .- 2. Lattices over algebraic number-fields.- 3. Ideals.- 4. Fundamental sets.- VI. The theorem of Riemann-Roch.- VII. Zeta-functions of  $A$ -fields.- 1. Convergence of Euler products.- 2. Fourier transforms and standard...



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