

<<数域上的傅里叶分析>>

图书基本信息

书名：<<数域上的傅里叶分析>>

13位ISBN编号：9787302102021

10位ISBN编号：7302102023

出版时间：2005-1

出版时间：清华大学

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页数：350

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内容概要

The general aim of this book is to provide a modern approach to number theory through a blending of complementary algebraic and analytic perspectives, emphasizing harmonic analysis on topological groups. The more particular goal is to cover John Tate ' s visionary thesis, giving virtually all of the necessary analytic details and topological preliminaries---technical prerequisites that are often foreign to the typical, more algebraically inclined number theorist. While most of the existing treatments of Tate ' s thesis are somewhat terse and less than complete, the authors ' intent is to be more leisurely, more comprehensive, and more comprehensible. The text addresses students who have taken a year of graduate-level courses in algebra, analysis, and topology. While the choice of objects and methods is naturally guided by specific mathematical goals, the approach is by no means narrow. In fact, the subject matter at hand is germane not only to budding number theorists, but also to students of harmonic analysis or the representation theory of Lie groups. Moreover, the work should be a good reference for working mathematicians interested in any of these fields. Specific topics include: topological groups, representation theory, duality for locally compact abelian groups, the structure of arithmetic fields, adèles and ideles, an introduction to class field theory, and Tate ' s thesis and applications.

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