

<<哈代数论>>

图书基本信息

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## 前言

This sixth edition contains a considerable expansion of the end-of-chapter notes. There have been many exciting developments since these were last revised, which are now described in the notes. It is hoped that these will provide an avenue leading the interested reader towards current research areas. The notes for some chapters were written with the generous help of other authorities. Professor D. Masser updated the material on Chapters 4 and 11, while Professor G.E. Andrews did the same for Chapter 19. A substantial amount of new material was added to the notes for Chapter 21 by Professor T.D. Wooley, and a similar review of the notes for Chapter 24 was undertaken by Professor R. Hans-Gill. We are naturally very grateful to all of them for their assistance.

In addition, we have added a substantial new chapter, dealing with elliptic curves. This subject, which was not mentioned in earlier editions, has come to be such a central topic in the theory of numbers that it was felt to deserve a full treatment. The material is naturally connected with the original chapter on Diophantine Equations.

Finally, we have corrected a significant number of misprints in the fifth edition. A large number of correspondents reported typographical or mathematical errors, and we thank everyone who contributed in this way. The proposal to produce this new edition originally came from Professors John Maitland Wright and John Coates. We are very grateful for their enthusiastic support.

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### 内容概要

本书是数论领域的一部传世名著，成书于作者在牛津大学、剑桥大学等学校授课的讲义。书中从各个不同角度对数论进行了阐述，内容包括素数、无理数、同余、费马定理、连分数、不定式、二次域、算术函数、分化等。

新版修订了每章末的注解，简要介绍了数论最新的发展；增加了一章讲述椭圆曲线，这是数论中最重要的突破之一。

还列出进一步阅读的文献。

本书适合数学专业本科生、研究生和教师用作教材或参考书，也适合对数论感兴趣的专业人士阅读参考。

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### 作者简介

G.H.Hardy (1877-1947) 20世纪上半叶享有世界声誉的数学大师，是英国数学界和英国分析学派的领袖，对数论和分析学的发展有巨大的贡献和重大的影响，除了自己的研究工作之外，他还培养和指导了众多数学大家，包括印度数学奇才拉马努金和我国数学家华罗庚。

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### 媒体关注与评论

“这本引人入胜的书对这一学科进行了生动、详尽的叙述，而且没有用到太多高深的理论。”  
——Mathematical Gazette (数学公报) “.....一本非常重要的著作.....它一定能继续保持长久、旺盛的生命力.....”  
——Mathematical Reviews (数学评论)

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