

<<加性数论>>

图书基本信息

书名：<<加性数论>>

13位ISBN编号：9787510044090

10位ISBN编号：751004409X

出版时间：2012-6

出版时间：世界图书出版公司

作者：纳森

页数：342

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>

## &lt;&lt;加性数论&gt;&gt;

## 内容概要

《加性数论（经典基）》分为上下2卷。

堆垒数论讨论的是很经典的直接问题。

在这个问题中，首先假定有一个自然数集合 $a$ 和大于等于2的整数 $h$ ，定义的和集 $ha$ 是由所有的 $h$ 和 $a$ 中元素乘积的和组成，试图描述和集 $ha$ 的结构；相反地，在逆问题中，从和集 $ha$ 开始，去寻找这样的一个集合 $a$ 。

近年来，有关整数有限集的逆问题方面取得了显著进展。

特别地，Freiman, Kneser, Plücker, Vosper以及一些其他的学者在这方面做出了突出的贡献。

本书中包括了这些结果，并且用Freiman定理的Ruzsa证明将本书的内容推向了高潮。

## &lt;&lt;加性数论&gt;&gt;

## 书籍目录

preface notation and convention waring's problem 1 sums of polygons 1.1 polygonal number 1.2 lagrange's theorem 1.3 quadratic forms 1.4 ternary quadratic forms 1.5 sums of three squares 1.6 thin sets of squares 1.7 the polygonal number theorem 1.8 notes 1.9 exercises 2 waring's problem for cubes 2.1 sums of cubes 2.2 the wieferich-kempner theorem 2.3 linnik's theorem 2.4 sums of two cubes 2.5 notes 2.6 exercises 3 the hilbert-wareing theorem 3.1 polynomial identities and a conjecture of hurwitz 3.2 hermite polynomials and hilbert's identity 3.3 a proof by induction 3.4 notes 3.5 exercises 4 weyl's inequality 4.1 tools 4.2 difference operator 4.3 easier waring's problem 4.4 fractional parts 4.5 weyl's inequality and hua's lemma 4.6 notes 4.7 exercises 5 the hardy-littlewood asymptotic formula 5.1 the circle method 5.2 waring's problem for  $k = 15$  5.3 the hardy-littlewood decomposition 5.4 the minor arcs 5.5 the major arcs 5.6 the singular integral 5.7 the singular series 5.8 conclusion 5.9 notes 5.10 exercises ii the goldbach conjecture 6 elementary estimates for primes 6.1 euclid's theorem 6.2 chebyshev's theorem 6.3 merter's theorems 6.4 brun's method and twin primes 6.5 notes 6.6 exercises 7 the shnirel'man-goldbach theorem 7.1 the goldbach conjecture 7.2 the selberg sieve 7.3 applicator of the sieve 7.4 shnirel'man derity 7.5 the shnirel'man-goldbach theorem 7.6 romanov's theorem 7.7 covering congruences 7.8 notes 7.9 exercises 8 sums of three primes 8.1 vinogradov's theorem 8.2 the singular series 8.3 decomposition into major and minor arcs 8.4 the integral over the major arcs 8.5 an exponential sum over primes 8.6 proof of the asymptotic formula 8.7 notes 8.8 exercise 9 the linear sieve 9.1 a general sieve 9.2 corstruction of a combinatorial sieve 9.3 approximator 9.4 the jurkat-richert theorem 9.5 differential-difference equator 9.6 notes 9.7 exercises 10 chen's theorem 10.1 primes and almost primes 10.2 weights 10.3 prolegomena to sieving 10.4 a lower bound for  $s(a, p, z)$  10.5 an upper bound for  $s(aq, p, z)$  10.6 an upper bound for  $s(b, p, y)$  10.7 a bilinear form inequality 10.8 conclusion 10.9 notes iii appendix arithmetic function 1 the ring of arithmetic function 2 sums and integrals 3 multiplicative function 4 the divisor function 5 the euler  $\phi$ -function 6 the mobius function 7 ramanujan sums 8 infinite products 9 notes 10 exercises bibliography index

<<加性数论>>

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>