

Elementary Number Theory

& ITS APPLICATIONS

7th

$$\sum_{d|n} \phi(d) = n$$

$$\phi(p^k) = p^k - p^{k-1}$$

$$f(n) = \sum_{d|n} \mu(d) F(n/d)$$

$$f_1 = 1, f_2 = 1, f_n = f_{n-1} + f_{n-2} \text{ for } n \geq 3$$

$$ma + nb = (a, b)$$

$$T(n) = \begin{cases} n/2 & \text{if } n \text{ is even;} \\ (3n+1)/2 & \text{if } n \text{ is odd.} \end{cases}$$

$$y^2 = x^2 + ax + b$$

$$P_1 + P_2 = (m^2 - x_1 - x_2, m(x_1 - x_2) - m)$$

$$P + \infty = P$$

$$\begin{pmatrix} p \\ q \end{pmatrix} \begin{pmatrix} q \\ p \end{pmatrix} = (-1)^{\frac{p-1}{2} \frac{q-1}{2}}$$

$$E(P) \subseteq C \subseteq P^* \pmod{n}, \quad 0 \leq C < n$$

$$S \equiv D_{\text{dim}(M)}(M) \equiv M^{\dim(M)} \pmod{n_{\text{dim}(M)}}$$

$$\sqrt{d^2+1} = [d; \overline{2d}]$$

$$\prod_{n=1}^{\infty} (1-x^n) = \sum_{n=-\infty}^{\infty} (-1)^n x^{n(3n-1)/2} = 1 + \sum_{n=1}^{\infty} (-1)^n x^{n(3n-1)/2} (1+x^n)$$

$$x \equiv 3C + \{C/4\} + \{3/4\} - 3 \pmod{7}$$

$$p(200) = 3,972,999,029,388$$

$$\sum_{i=1}^m \epsilon_i \equiv 0 \pmod{11}$$

$$p(11k+6) \equiv 0 \pmod{11}$$

$$x = \alpha_1 M_{12} y_1 + \alpha_2 M_{12} y_2 + \cdots + \alpha_r M_{12} y_r$$

$$\max(|a|, |b|, |c|) < K(c) (\text{rad}(abc))^{1+\epsilon}$$

$$Q_n = p_1 p_2 \cdots p_n + 1$$

$$x^2 - dy^2 = 1$$

$$\phi(n) = n \left(1 - \frac{1}{p_1}\right) \left(1 - \frac{1}{p_2}\right) \cdots \left(1 - \frac{1}{p_k}\right)$$

$$2^{23,449,893} \equiv 1$$

$$p_n \sim n \log n$$

$$x^n + y^n = z^n$$

$$a^{\phi(m)} \equiv 1 \pmod{m}$$

$$29968432034595 = 2^{12999999} \pm 1$$

$$x^m - y^n = 1$$

$$a^{p-1} \equiv 1 \pmod{p}$$

$$F_n = 2^{2^n} - 1$$

$$x^n + y^n = z^n$$

$$(p-1)! \equiv -1 \pmod{p}$$

Kenneth H. Rosen



Number Theory And Its Applications

Richard A. Mollin



Number Theory And Its Applications:

Fundamental Number Theory with Applications Richard A. Mollin, 2008-02-21 An update of the most accessible introductory number theory text available Fundamental Number Theory with Applications Second Edition presents a mathematically rigorous yet easy to follow treatment of the fundamentals and applications of the subject The substantial amount of reorganizing makes this edition clearer and more elementary in i Number Theory and Its Applications Fuhuo Li, Nianliang Wang, Shigeru Kanemitsu, 2013 This book emphasizes the role of symmetry and presents as many viewpoints as possible of an important phenomenon the functional equation of the associated zeta function It starts from the basics before warping into the space of new interest from the ground state to the excited state For example the Euler function is treated in several different places as the number of generators of a finite cyclic group as one counting the order of the multiplicative group of reduced residue classes modulo q and as the order and degree of the Galois group of the cyclotomic field respectively One of the important principles of learning is to work with the material many times This book presents many worked out examples and exercises to enhance the reader's comprehension on the topics covered in an in depth manner This is done in a different setting each time such that the reader will always be challenged For the keen reader even browsing the text alone without solving the exercises will yield some knowledge and enjoyment **Number Theory And Its**

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complete exponential sums Waring's problems Tarry's problems and Vinogradov's method Interest in number theory continued to flourish following the founding of the People's Republic of China The most noted accomplishments by Chinese mathematicians were focused on the solution of Goldbach's Conjecture and on the sieve method Although the Cultural Revolution interrupted research in number theory for more than 10 years the field is now growing in China A number of universities now have advanced programs in the subject and a wide variety of topics including the applications of number theory This volume contains nine survey articles and three articles on current research The collection emphasizes the accomplishments of Chinese number theorists during 1949-1979 a period when correspondence between China and other countries was discouraged The collection is intended not only to survey the significant contributions of Chinese mathematicians but also to reflect the latest developments and current state of research in number theory in China

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