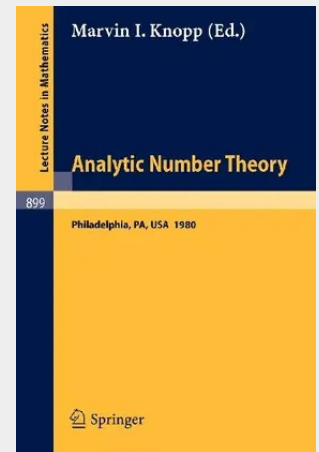


Analytic Number Theory

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An orthonormal system and its Lebesgue constants.- Mordell integrals and Ramanujan's "lost" notebook.- 5 Ramanujan's second notebook.- Oscillation theorems.- On the generalized density hypothesis, I.- The zeros of Hurwitz's zeta-function on $\sigma=1/2$.- Gaps between consecutive zeta zeros.- On the representation of the summatory functions of a class of arithmetical functions.- P-adic L-functions at $s=0$ and $s=1$.- Some problems and results on additive and multiplicative number theory.- Computations and generalizations on a remark of Ramanujan.- The arithmetic mean of the divisors of an integer.- The next Pellian equation.- Best Diophantine approximations for ternary linear forms, II.- Constructive elementary estimates for $M(x)$.- On the second largest prime divisor of an odd perfect number.- A complement to Rident's P-adic generalization of the Thue-Siegel-Roth theorem.- Cyclotomy for non-squarefree modul I.- Waring's problem for sets of density zero.- Sequences without arithmetic progressions.- On polygon groups.- Theta function identities and orthogonal polynomials.- Ramanujan congruences for $q(n)$.- Gaps in the Fourier series of automorphic forms.- Gaps in the Fourier series of automorphic forms II.- Modular functions revisited.- Bounding the norm of the Poincaré τ -operator.- Analysis on positive matrices as it might have occurred to Fourier.

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