

# Bibliografía

- [1] J. H. Bruinier, G. van der Geer, G. Harder, and D. Zagier. *The 1-2-3 of modular forms*. Universitext. Springer-Verlag, Berlin, 2008. Lectures from the Summer School on Modular Forms and their Applications held in Nordfjordeid, June 2004, Edited by K. Ranestad.
- [2] J. W. S. Cassels. *Lectures on elliptic curves*, volume 24 of *London Mathematical Society Student Texts*. Cambridge University Press, Cambridge, 1991.
- [3] W. Castryck. A shortened classical proof of the quadratic reciprocity law. *Amer. Math. Monthly*, 115(6):550–551, 2008.
- [4] R. V. Churchill and J. W. Brown. *Complex variables and applications*. McGraw-Hill Book Co., New York, fourth edition, 1984.
- [5] J. Cilleruelo and A. Córdoba. *La teoría de los números*. Biblioteca Mondadori. Mondadori España, Madrid, 1992.
- [6] H. Cohen. *A course in computational algebraic number theory*, volume 138 of *Graduate Texts in Mathematics*. Springer-Verlag, Berlin, 1993.
- [7] H. Cohen. *Number theory. Vol. I. Tools and Diophantine equations*, volume 239 of *Graduate Texts in Mathematics*. Springer, New York, 2007.
- [8] H. Cohen. *Number theory. Vol. II. Analytic and modern tools*, volume 240 of *Graduate Texts in Mathematics*. Springer, New York, 2007.
- [9] H. Cohn. *Advanced number theory*. Dover Publications Inc., New York, 1980. Reprint of *A second course in number theory*, 1962, Dover Books on Advanced Mathematics.
- [10] A. C. Cojocaru and M. R. Murty. *An introduction to sieve methods and their applications*, volume 66 of *London Mathematical Society Student Texts*. Cambridge University Press, Cambridge, 2006.

- [11] A. Córdoba. *Lecciones de teoría de los números*, volume 20 of *Publicaciones del Departamento de Matemáticas, Universidad de Extremadura*. Universidad de Extremadura, Facultad de Ciencias, Departamento de Matemáticas, Badajoz, 1987.
- [12] A. Córdoba. Disquisitio numerorum. *Gac. R. Soc. Mat. Esp.*, 4(1):249–260, 2001.
- [13] A. Córdoba. *La saga de los números*. Crítica, 2006.
- [14] D. A. Cox. *Primes of the form  $x^2 + ny^2$* . A Wiley-Interscience Publication. John Wiley & Sons Inc., New York, 1989. Fermat, class field theory and complex multiplication.
- [15] H. Davenport. *Multiplicative number theory*, volume 74 of *Graduate Texts in Mathematics*. Springer-Verlag, New York-Berlin, second edition, 1980. Revised by H. L. Montgomery.
- [16] H. M. Edwards. *Riemann's zeta function*. Academic Press, New York-London, 1974. Pure and Applied Mathematics, Vol. 58.
- [17] W. J. Ellison. *Les nombres premiers*. Publications de l'Institut de Mathématique de l'Université de Nancago, No. IX. Hermann, Paris, 1975. En collaboration avec M. Mendès France.
- [18] Euclid. *Euclid's Elements. All thirteen books complete in one volume. The T. L. Heath translation. Edited by D. Densmore*. Santa Fe, NM: Green Lion Press, 2002.
- [19] J. Friedlander and H. Iwaniec. *Opera de cribro*, volume 57 of *American Mathematical Society Colloquium Publications*. American Mathematical Society, Providence, RI, 2010.
- [20] C. F. Gauss. *Disquisitiones arithmeticae*. Springer-Verlag, New York, 1986. Translated and with a preface by A. A. Clarke, Revised by W. C. Waterhouse, C. Greither and A. W. Grootendorst and with a preface by Waterhouse.
- [21] A. O. Gel'fond and Yu. V. Linnik. *Elementary methods in the analytic theory of numbers*. Translated from the Russian by D. E. Brown. Translation edited by I. N. Sneddon. International Series of Monographs in Pure and Applied Mathematics, Vol. 92. Pergamon Press, Oxford, 1966.
- [22] G. H. Hardy and E. M. Wright. *An introduction to the theory of numbers*. Oxford University Press, Oxford, sixth edition, 2008. Revised by D. R. Heath-Brown and J. H. Silverman, With a foreword by A. Wiles.

- [23] Y. Hellegouarch. *Invitation to the mathematics of Fermat-Wiles*. Academic Press, Inc., San Diego, CA, 2002. Translated from the second (2001) French edition by Leila Schneps.
- [24] M. D. Hirschhorn. Partial fractions and four classical theorems of number theory. *Amer. Math. Monthly*, 107(3):260–264, 2000.
- [25] M. D. Hirschhorn. The number of representations of a number by various forms. *Discrete Math.*, 298(1-3):205–211, 2005.
- [26] L. K. Hua. *Introduction to number theory*. Springer-Verlag, Berlin, 1982. Translated from the Chinese by P. Shiu.
- [27] K. F. Ireland and M. I. Rosen. *A classical introduction to modern number theory*, volume 84 of *Graduate Texts in Mathematics*. Springer-Verlag, New York-Berlin, 1982. Revised edition of it Elements of number theory.
- [28] A. Ivić. *The Riemann zeta-function*. Dover Publications Inc., Mineola, NY, 2003. Theory and applications, Reprint of the 1985 original [Wiley, New York; MR0792089 (87d:11062)].
- [29] H. Iwaniec. Almost-primes represented by quadratic polynomials. *Invent. Math.*, 47(2):171–188, 1978.
- [30] H. Iwaniec. *Topics in classical automorphic forms*, volume 17 of *Graduate Studies in Mathematics*. American Mathematical Society, Providence, RI, 1997.
- [31] H. Iwaniec. *Lectures on the Riemann zeta function*, volume 62 of *University Lecture Series*. American Mathematical Society, Providence, RI, 2014.
- [32] H. Iwaniec and E. Kowalski. *Analytic number theory*, volume 53 of *American Mathematical Society Colloquium Publications*. American Mathematical Society, Providence, RI, 2004.
- [33] K. Kato, N. Kurokawa, and T. Saito. *Number theory. 1*, volume 186 of *Translations of Mathematical Monographs*. American Mathematical Society, Providence, RI, 2000. Fermat’s dream, Translated from the 1996 Japanese original by M. Kuwata, Iwanami Series in Modern Mathematics.
- [34] K. Kato, N. Kurokawa, and T. Saito. *Number theory. 2*, volume 240 of *Translations of Mathematical Monographs*. American Mathematical Society, Providence, RI, 2011. Introduction to class field theory, Translated from the 1998 Japanese original by M. Kuwata and K. Nomizu, Iwanami Series in Modern Mathematics.

- [35] A. Ya. Khinchin. *Continued fractions*. Dover Publications, Inc., Mineola, NY, russian edition, 1997. With a preface by B. V. Gnedenko, Reprint of the 1964 translation.
- [36] A. W. Knap. *Elliptic curves*, volume 40 of *Mathematical Notes*. Princeton University Press, Princeton, NJ, 1992.
- [37] N. Kurokawa, M. Kurihara, and T. Saito. *Number theory. 3*, volume 242 of *Translations of Mathematical Monographs*. American Mathematical Society, Providence, RI, 2012. Iwasawa theory and modular forms, Translated from the Japanese by M. Kuwata, Iwanami Series in Modern Mathematics.
- [38] F. Lemmermeyer. *Reciprocity laws*. Springer Monographs in Mathematics. Springer-Verlag, Berlin, 2000. From Euler to Eisenstein.
- [39] J. E. Littlewood. The quickest proof of the prime number theorem. *Acta Arith.*, 18:83–86, 1971.
- [40] Á. Lozano-Robledo. *Number theory and geometry*, volume 35 of *Pure and Applied Undergraduate Texts*. American Mathematical Society, Providence, RI, 2019. An introduction to arithmetic geometry.
- [41] S. J. Miller and R. Takloo-Bighash. *An invitation to modern number theory*. Princeton University Press, Princeton, NJ, 2006. With a foreword by P. Sarnak.
- [42] H. L. Montgomery. *Ten lectures on the interface between analytic number theory and harmonic analysis*, volume 84 of *CBMS Regional Conference Series in Mathematics*. Published for the Conference Board of the Mathematical Sciences, Washington, DC; by the American Mathematical Society, Providence, RI, 1994.
- [43] H. L. Montgomery and R. C. Vaughan. *Multiplicative number theory. I. Classical theory*, volume 97 of *Cambridge Studies in Advanced Mathematics*. Cambridge University Press, Cambridge, 2007.
- [44] M. R. Murty. *Problems in analytic number theory*, volume 206 of *Graduate Texts in Mathematics*. Springer, New York, second edition, 2008. Readings in Mathematics.
- [45] W. Narkiewicz. *Elementary and analytic theory of algebraic numbers*. Springer Monographs in Mathematics. Springer-Verlag, Berlin, third edition, 2004.
- [46] D. J. Newman. *Analytic number theory*, volume 177 of *Graduate Texts in Mathematics*. Springer-Verlag, New York, 1998.

- [47] R. A. Rankin. *Modular forms and functions*. Cambridge University Press, Cambridge-New York-Melbourne, 1977.
- [48] H. E. Rose. *A course in number theory*. Oxford Science Publications. The Clarendon Press, Oxford University Press, New York, 1988.
- [49] K. H. Rosen. *Elementary number theory and its applications*. Addison-Wesley, Reading, MA, fourth edition, 2000.
- [50] J.-P. Serre. *A course in arithmetic*. Springer-Verlag, New York, 1973. Translated from the French, Graduate Texts in Mathematics, No. 7.
- [51] J. H. Silverman and J. T. Tate. *Rational points on elliptic curves*. Undergraduate Texts in Mathematics. Springer, Cham, second edition, 2015.
- [52] M. Spivak. *Calculus Vol. I, II*. Editorial Reverté, Barcelona, 1984.
- [53] E. C. Titchmarsh. *The theory of the Riemann zeta-function*. The Clarendon Press, Oxford University Press, New York, second edition, 1986. Edited and with a preface by D. R. Heath-Brown.
- [54] B. L. van der Waerden. *Algebra. Vol 1*. Frederick Ungar Publishing Co., New York, 1970. Translated by Fred Blum and John R. Schulenberger.
- [55] B. Veklych. A minimalist proof of the law of quadratic reciprocity. *Amer. Math. Monthly*, 126(10):928, 2019.
- [56] I. M. Vinogradov. *The method of trigonometrical sums in the theory of numbers*. Dover Publications Inc., Mineola, NY, 2004. Translated from the Russian, revised and annotated by K. F. Roth and A. Davenport, Reprint of the 1954 translation.
- [57] B. F. Wyman. What is a reciprocity law? *Amer. Math. Monthly*, 79:571–586; correction, *ibid.* 80 (1973), 281, 1972.