

27. Februar 2001. U. Schoenwaelder; <http://www.math.rwth-aachen.de/~Ulrich.Schoenwaelder>
 HB = Hochschulbibl. RWTH, HBZ = <http://www.hbz-nrw.de/> (HBZ-CD-ROM Online), MB = Mathe-
 matikbibl., DB = Didaktikbibl. (Winter), FH = Bibl. Fachhochschule Aachen, FL = Fernleihe, IB Nr.
 Institutsbibliothek Nr., LB = HB-Lehrbuchsammlung, LS = HB-Lesesaal

LITERATUR ZUR ALGEBRAISCHEN ZAHLENTHEORIE

- [1] W. A. Adams and L. J. Goldstein. *Introduction to Number Theory*. Prentice-Hall, Inc., 1976. MB: 9094. Quadratic fields and forms. Chapters: 1 Introduction; 2 Divisibility and Primes; 3 Congruences; 4 The Law of Quadratic Reciprocity; 5 Arithmetic Functions (5.3 The Möbius Inversion Formula); 6 A Few Diophantine Equations; 7 The Gaussian Integers; 8 Arithmetic in Quadratic Fields; 9 Factorization Theory in Quadratic Fields; 10 Applications of the Factorization Theory to Diophantine Equations; 11 The Representation of Integers by Binary Quadratic Forms.
- [2] R. B. Allenby and E. J. Redfern. *Introduction to Number Theory with Computing*. 1989. MB: 14680.
- [3] E. Artin. *Algebraic Numbers and Algebraic Functions*. Gordon & Breach, 1967. MB: 4297.
- [4] S. I. Borewicz and I. R. Shafarevich. *Zahlentheorie*. Birkhäuser Verlag, 1966. MB: 3600, HB: 32 Za 5775.
- [5] N. Bourbaki. *Algèbre Commutative. Ch. 5: Entiers, Ch. 6: Valuations*. Éléments de Mathématique XXX. Actualités Scientifiques et Industrielles 1308. Hermann, Paris, 1964. MB: 4754 c-d.
- [6] Y. L. Cheung. Learning number theory with a computer algebra system. *Intern. J. Math. Ed. Sci. Techn.*, 27(3):379–?, 1996.
- [7] H. Cohen. *A Course in Computational Algebraic Number Theory*. GTM 138. Springer-Verlag, 1993. MB: 16831; HB: Bb 1244-138+1.
- [8] H. Cohn. *A Classical Invitation to Algebraic Numbers and Class Fields*. Universitext. Springer-Verlag, 1978, ²1988. MB: 10056. Tel. Rev.: Amer. Math. Monthly 86:1 (1979), 70.
- [9] R. Dedekind. *Theory of Algebraic Integers*. Cambridge Mathematical Library. Cambridge University Press, 1996. MB: 17 991. Part I: Translators Introduction (pp. 1–50); Part II: Translation by John Stillwell of: R. Dedekind, Sur la Théorie des Nombres Entiers Algébriques, Gauthiers-Villars, 1877 (pp. 51–152).
- [10] H. M. Edwards. *Fermat's Last Theorem. A Genetic Introduction to Algebraic Number Theory*. GTM 50. Springer-Verlag, 1977. MB: 9404.
- [11] A. Fröhlich and M. J. Taylor. *Algebraic Number Theory*. Cambridge Studies in Advanced Mathematics 27. Cambridge University Press, 1991. MB: 16171.
- [12] E. Grosswald. *Topics from the Theory of Numbers*. Birkhäuser, ²1984. MB: 12306. Ch. 10: The arithmetic of number fields; Ch. 11: Ideal theory; Ch. 14: Fermat's equation.
- [13] H. Hasse. *Zahlentheorie*. Akademie-Verlag, Berlin, ³1969. MB: . „Blauer Hasse“. Kap. II: Theorie der bewerteten Körper. Kap. III: Die Grundlagen der Arithmetik in algebraischen Zahlkörpern.
- [14] K. Ireland and M. Rosen. *A Classical Introduction to Algebraic Number Theory*. GTM 84. Springer-Verlag, 1982, 1993. MB: 11471. Rev.: Amer. Math. Monthly 91:5 (1984), 319–321.
- [15] N. Jacobson. *Basic Algebra I, II*. W. H. Freeman, 1980. II, Ch. 9: Valuation Theory; II, Ch. 10: Dedekind Domains.
- [16] G. J. Janusz. *Algebraic Number Fields*. Graduate Studies in Mathematics 7. AMS, ²1995, Jan. 1996. Rekl. in Notices AMS 42:11 (1995), 1370.
- [17] H. Koch. *Einführung in die klassische Mathematik I*. Springer-Verlag, 1986. MB: ?, HB: 1 Bb 1658. Zbl. 652.00001. English Transl.: Kluwer Acad. Publ. 1991.
- [18] H. Koch. Algebraic number fields. Encyclopedia of Mathematical Sciences 62. Number Theory II. Springer-Verlag, 1992. MB: 15893 b. Übersicht. Umfangreiches Literaturverzeichnis.
- [19] Helmut Koch. *Zahlentheorie: Algebraische Zahlen und Funktionen*. Vieweg Studium, Aufbaukurs Mathematik. Vieweg, 1997. ISBN 3-528-07272-5. MB:.
- [20] S. Lang. *Algebraic Numbers*. Addison-Wesley Series in Mathematics. Addison-Wesley, 1964. MB: ?
- [21] S. Lang. *Algebraic Number Theory*. Addison-Wesley Series in Mathematics. Addison-Wesley, 1970. MB: ?
- [22] S. Lang. *Algebraic Number Theory*. GTM 110. Springer-Verlag, ²1994. MB: ?
- [23] R. L. Long. *Algebraic Number Theory*. Marcel Dekker, 1977. MB: 9555. Bewertungen.
- [24] F. Lorenz. *Algebraische Zahlentheorie*. BI, 1993. MB:.
- [25] D. Lorenzini. *An Invitation to Arithmetic Geometry*. Graduate Studies in Mathematics 9. AMS, 1995. MB: . Rekl. in Notices AMS 42:12 (1995), 1574: connections between algebraic number theory and algebraic curves.
- [26] D. A. Marcus. *Number Fields*. Universitext. Springer-Verlag, 1977. MB: 9492. Ch. 4: Galois theory applied to prime decomposition.
- [27] Richard A. Mollin. *Fundamental Number Theory with Applications*. Discrete Mathematics and Its Applications. CRC Press via Springer, 1998. MB: ISBN 0-8493-3987-1.
- [28] Richard A. Mollin. *Algebraic Number Theory*. Discrete Mathematics and Its Applications. CRC Press via Springer, 1999. MB: 18855. ISBN 0-8493-3989-8.
- [29] W. Narkiewicz. *Elementary and Analytic Theory of Algebraic Numbers*. PWN, Warszawa, 1974. MB: ? Zbl. 276.12002.
- [30] J. Neukirch. *Algebraische Zahlentheorie*. Springer-Verlag, 1992. MB: 16296, HB: Bb 1842.
- [31] M. Pohst and H. Zassenhaus. *Algorithmic Algebraic Number Theory*. Encyclopedia of Mathematics and Its Applications. Cambridge Univ. Press, 1989. MB: ?
- [32] Michael Pohst, editor. *Algorithmic Methods in Algebra and Number Theory*, Aus: Journal of Symbolic Computation 4 (1987). Academic Press, 1987. MB: 14442. ISBN 0-12-559190-X.

- [33] H. Pollard and H. G. Diamond. *The Theory of Algebraic Numbers*. MAA, ²1975. MB: ? Elementary parts of classical algebraic number theory.
- [34] H. E. Rose. *A Course in Number Theory*. Clarendon Press, ²1995 paperback. MB: Including briefly the latest work on Fermat's last theorem.
- [35] P. Samuel. *Algebraic Theory of Numbers*. Kershaw Publ. Co., London, 1972. MB: ? Franz. Original: Théorie algébrique des nombres, Hermann, Paris, 1967.
- [36] M. R. Schroeder. *Number Theory in Science and Communication. With Applications in Cryptography, Physics, Biology, Digital Information, and Computing*. Springer Series in Information Sciences 7. Springer-Verlag, 1984. MB: 12448. Historical Remarks on Fermat's Last Theorem: 95–96.
- [37] H. Schubart. *Einführung in die klassische und moderne Zahlentheorie*. Unitexte. Vieweg, 1974. MB: 7836.
- [38] D. Shanks. *Solved and Unsolved Problems in Number Theory*. 1962, ³1993. MB:.
- [39] I. N. Stewart and D. O. Tall. *Algebraic Number Theory*. Chapman and Hall Mathematics Series. Chapman and Hall, 1979, ²1987. MB: 10481, HB: Bf7181.
- [40] A. Weil. *Basic Number Theory*. Die Grundlehren der mathematischen Wissenschaften 144; Classics in Mathematics. Springer-Verlag, 1967, 1995. MB: 3867.
- [41] E. Weiss. *Algebraic Number Theory*. International series in pure and applied mathematics. McGraw-Hill, 1963. MB: . Beginnt mit Bewertungstheorie.