

MR2383194 (2009a:11004a) 11-06 01A75

[Schinzel, Andrzej \(PL-PAN\)](#)

★ **Andrzej Schinzel selecta. Vol. I.**

Diophantine problems and polynomials.

Edited by Henryk Iwaniec, Władysław Narkiewicz and Jerzy Urbanowicz.

Heritage of European Mathematics.

European Mathematical Society (EMS), Zürich, 2007. xiv+

ISBN 978-3-03719-038-8

Citations

[From References: 7](#)

[From Reviews: 0](#)

MR2383195 (2009a:11004b) 11-06 01A75

[Schinzel, Andrzej \(PL-PAN\)](#)

★ **Andrzej Schinzel selecta. Vol. II.**

Elementary, analytic and geometric number theory.

Edited by Henryk Iwaniec, Władysław Narkiewicz and Jerzy Urbanowicz.

Heritage of European Mathematics.

European Mathematical Society (EMS), Zürich, 2007. pp. i-x and 859–1393.

ISBN 978-3-03719-038-8

Contents:

Vol. I. Part A. Diophantine equations and integral forms (16 papers), commentary by R. Tijdeman. Part B. Continued fractions (3 papers), commentary by Eugène Dubois. Part C. Algebraic number theory (10 papers), commentary by David W. Boyd and D. J. Lewis. Part D. Polynomials in one variable (17 papers), commentary by Michael Filaseta. Part E. Polynomials in several variables (10 papers), commentary by Umberto Zannier. Part F. Hilbert's irreducibility theorem (3 papers), commentary by Zannier.

Vol. II. Part G. Arithmetic functions (6 papers), commentary by Kevin Ford. Part H. Divisibility and congruences (11 papers), commentary by H. W. Lenstra, Jr. Part I. Primitive divisors (6 papers), commentary by C. L. Stewart. Part J. Prime numbers (5 papers), commentary by Jerzy Kaczorowski. Part K. Analytic number theory (4 papers), commentary by Kaczorowski. Part L. Geometry of numbers (4 papers), commentary by Wolfgang M. Schmidt. Part M. Other papers (5 papers), commentary by Stanisław Kwapien.

This is a two-volume selection of the work of Andrzej Schinzel (b. 1937), who is well-known for some 300 papers in several areas of number theory, and for his books *Selected topics on polynomials* [Univ. Michigan Press, Ann Arbor, Mich., 1982; [MR0649775](#)] and *Polynomials with special regard to reducibility* [Cambridge Univ. Press, Cambridge, 2000; [MR1770638](#)]. One hundred of his papers are reproduced here. The first volume covers Diophantine equations and integral forms; continued fractions; algebraic number theory; polynomials in one variable; polynomials in several variables; and Hilbert's irreducibility theorem. Volume 2 covers arithmetic functions; divisibility and congruences; primitive divisors; prime numbers; analytic number theory; geometry of numbers; and five papers on other topics. There are incisive commentaries on each of these 13 themes by well-known experts: R. Tijdeman, E. Dubois, D. W. Boyd, D. J. Lewis, M. Filaseta, U. Zannier, K. Ford, H. W. Lenstra, Jr., C. L. Stewart, J. Kaczorowski, W. M. Schmidt, S. Kwapieri and E. Szemerédi. Their lists of references to related work are very helpful to the reader.

This would be a nice addition to any university library. Priced at \$218, it should be attractive to individual number theorists too. The breadth and depth of Schinzel's work

are both remarkable. (I was unaware that the first thirty of his papers were published while he was an undergraduate in Warsaw.)

R. C. Baker

© *Copyright American Mathematical Society 2009, 2016*