

1. Record Nr.	UNINA9910462532603321
Titolo	Computational number theory [[electronic resource]] : proceedings of the Colloquium on Computational Number Theory held at Kossuth Lajos University, Debrecen (Hungary), September 4-9, 1989 // editors, Attila Petho ... [et al.]
Pubbl/distr/stampa	Berlin ; ; New York, : W. de Gruyter, 1991
ISBN	3-11-086595-5
Edizione	[Reprint 2011]
Descrizione fisica	1 online resource (356 p.)
Altri autori (Persone)	PethoAttila <1950->
Disciplina	512/.7
Soggetti	Number theory - Data processing Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Front matter -- Preface -- List of contributors -- Table of contents -- On the construction of primitive elements and primitive normal bases in a finite field / Stepanov, S.A. / Shparlinskiy, I.E. -- A numerical method for the determination of the cyclotomic polynomial coefficients / Grytczuk, A. / Tropak, B. -- Number systems / Kovács, . -- Fast converging series representations of real numbers and their implementations in digital processing / Melnichuk, Yu. V. -- On a polynomial transformation and its application to the construction of a public key cryptosystem / Pethö, A. -- Number-theoretic transforms and a theorem of Sylvester - Kronecker - Zsigmondy / Tasche, M. / Steidl, G. / Creutzburg, R. -- A probabilistic class group and regulator algorithm and its implementation / Buchmann, J. / Düllmann, S. -- Prime-producing quadratic polynomials and class numbers of quadratic orders / Halter-Koch, F. -- Applications of a new class number two criterion for real quadratic fields / Mollin, R.A. -- On a solution of a class number two problem for a family of real quadratic fields / Mollin, R.A. / Williams, H.C. -- Cubic number fields with exceptional units / Ennola, V. -- Enumeration of totally complex quartic fields of small discriminant / Ford, D. -- Class number computation by cyclotomic or elliptic units / Nakamura, K. -- Computing fundamental units from independent units / Arenz, B. -- A note on index divisors / Pohst, M.

-- Computation of independent units in number fields by a combination of the methods of Buchmann/Pethö and Pohst / Zassenhaus / Schröter, U. -- Hecke actions on classes of ternary quadratic forms / Birch, B.J. -- Computation of singular moduli by multi-valued modular equations / Cohn, Harvey -- Congruent numbers and elliptic curves / Serf, P. -- The rank of elliptic curves upon quadratic extension / Schneiders, U. / Zimmer, H. G. -- On the resolution of some diophantine equations / Gaál, I. -- Index form equations in cubic number fields / Schulte, . -- On the practical solution of the Thue-Mahler equation / Tzanakis, N. / Weger, B.M.M. de -- Some results on Thue equations and Thue-Mahler equations / Evertse, J.H. / -- On the solution of the diophantine equation $G_n = P(x)$ with sieve algorithm / Nemes, I. -- On Thue equations associated with certain quartic number fields / Stroeker, R.J. -- KANT - a tool for computations in algebraic number fields / Graf, J. / -- SIMATH - a computer algebra system / Hollinger, C. / Serf, P.
