

1. Record Nr.	UNISA996466622403316
Autore	Adleman Leonard M.
Titolo	Primality testing and Abelian varieties over finite fields // Leonard M. Adleman, Ming-Deh A. Huang
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer-Verlag, , [1992] ©1992
ISBN	3-540-47021-2
Edizione	[1st ed. 1992.]
Descrizione fisica	1 online resource (VIII, 144 p.)
Collana	Lecture Notes in Mathematics ; ; 1512
Classificazione	14K15 11A51 68Q25
Disciplina	512.72
Soggetti	Numbers, Prime Abelian varieties Finite fields (Algebra)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	Acknowledgement -- Overview of the algorithm and the proof of the main theorem -- Reduction of main theorem to three propositions -- Proof of proposition 1 -- Proof of proposition 2 -- Proof of proposition 3.
Sommario/riassunto	From Gauss to G del, mathematicians have sought an efficient algorithm to distinguish prime numbers from composite numbers. This book presents a random polynomial time algorithm for the problem. The methods used are from arithmetic algebraic geometry, algebraic number theory and analytic number theory. In particular, the theory of two dimensional Abelian varieties over finite fields is developed. The book will be of interest to both researchers and graduate students in number theory and theoretical computer science.