

## ARITHMETIC THEORY OF ELLIPTIC CURVES%0A

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[An Introduction to the Theory of Elliptic Curves \[pdf\]](#)  
 An Introduction to the Theory of Elliptic Curves The Discrete Logarithm Problem Fix a group  $G$  and an element  $g \in G$ . The Discrete Logarithm Problem (DLP) for  $G$  is: The Arithmetic of Elliptic Curves | Joseph H. Silverman ...

The theory of elliptic curves is distinguished by its long history and by the diversity of the methods that have been used in its study. This book treats the arithmetic theory of elliptic curves in its modern formulation, through the use of basic algebraic number theory and algebraic geometry. The

[Elliptic curve - Wikipedia](#)

In mathematics, an elliptic curve is a plane algebraic curve defined by an equation of the form  $y^2 = x^3 + ax + b$  ( $\displaystyle y^2 = x^3 + ax + b$ ) that is non-singular; that is, it has no cusps or self-intersections.

[Elliptic Curves: Function Theory, Geometry, Arithmetic ...](#)

The subject of elliptic curves is one of the jewels of nineteenth-century mathematics, whose masters were Abel, Gauss, Jacobi, and Legendre. This book presents an introductory account of the subject in the style of the original discoverers, with references to and comments about more recent and modern developments.

[The Arithmetic of Elliptic Curves \(2nd Edition\)](#)

The Arithmetic of Elliptic Curves is a graduate-level textbook designed to introduce the reader to an important topic in modern mathematics. The theory of elliptic curves is distinguished by its long history and by the diversity of the methods that have been used in its study. This book treats the arithmetic theory of elliptic curves in its modern formulation, through the use of basic algebraic number theory and algebraic geometry. The book begins with a brief discussion of the necessary

[J.S. Milne: Elliptic Curves](#)

Among the many works on the arithmetic of elliptic curves, I mention here only the survey article Cassels 1966, which gave the 1st modern exposition of the subject, Tate's Haverford lectures (reproduced in Silverman and Tate 1992),

[Mathematical Foundations of Elliptic Curve Cryptography](#)

Introduction If one drew a map of mathematical theories, the theory of elliptic curves would lie very much near the center of that map. It draws from and connects several integral parts of mathematics: analysis

[Arithmetic surface - Wikipedia](#)

In mathematics, an arithmetic surface over a Dedekind domain  $R$  with fraction field is a geometric object having one conventional dimension, and one other dimension provided by the infinitude of the primes.

**Silverman, The Arithmetic of Elliptic Curves - RAS**

The basic (global) theorems in the arithmetic of elliptic curves are the Mordell-Weil theorem, which is proven in Chapter VIII and analyzed more closely in Chapter X, and Siegel's theorem, which is proven in Chapter IX.

**Elliptic Curves: Function Theory, Geometry, Arithmetic ...**

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**Arithmetic Theory of Elliptic Curves - PDF Free Download**

The arithmetic of elliptic curves is a rapidly developing branch of mathematics, at the boundary of number theory, algebra, arithmetic algebraic geometry and complex analysis. ~ The pioneering research in this field in the early twentieth century, mainly due to H. Poincaré and B. Levi, the origin of the modern arithmetic theory of elliptic curves goes back to L. J. Mordell's theorem.

**Algebraic Theory of Elliptic Curves | Curve | Field ...**

Arithmetic of Elliptic Curves In this chapter we shall study elliptic curves over fields  $K$  that are of interest to number theorists: finite fields,  $p$ -adic fields and number fields.

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The theory of elliptic curves is distinguished by its long history and by the diversity of the methods that have been used in its study. This book treats the arithmetic approach in its modern formulation, through the use of basic algebraic number theory and algebraic geometry.

**Arithmetic of the level four theta model of elliptic curves**

In this paper, we present a new model for elliptic curves that we call the level four theta model. This model is defined over any finite field and is obtained from Riemann theta functions of level four. We show that the group law is unified and study its completeness. Over binary fields, we present

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