

*Algebraic Geometry And Arithmetic Curves Oxford Graduate Texts
In Mathematics*



Algebraic Geometry And Arithmetic Curves

This book provides a general introduction to the theory of schemes, followed by applications to arithmetic surfaces and to the theory of reduction of algebraic curves. The book is essentially self-contained, including the necessary material on commutative algebra. The prerequisites are therefore few, and the book should suit a graduate student.

Algebraic Geometry and Arithmetic Curves

This new-in-paperback edition provides a general introduction to algebraic and arithmetic geometry, starting with the theory of schemes, followed by applications to arithmetic surfaces and to the theory of reduction of algebraic curves.

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This book is a general introduction to the theory of schemes, followed by applications to arithmetic surfaces and to the theory of reduction of algebraic curves. The first part introduces basic objects such as schemes, morphisms, base change, local properties (normality, regularity, Zariski's Main Theorem). This is followed by the more global aspect: coherent sheaves and a finiteness theorem ...

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This book is a general introduction to the theory of schemes, followed by applications to arithmetic surfaces and to the theory of reduction of algebraic curves. The first part introduces basic objects such as schemes, morphisms, base change, local properties (normality, regularity, Zariski's Main Theorem).

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Readings | Introduction to Arithmetic Geometry ...

theory of algebraic curves from the viewpoint of modern algebraic geometry, but without excessive prerequisites. We have assumed that the reader is familiar with some basic properties of rings, ideals, and polynomials, such as is often covered in a one-semester course in modern algebra; additional commutative algebra is developed in later ...

ALGEBRAIC CURVES - Mathematics

Algebraic geometry is a branch of mathematics, classically studying zeros of multivariate

polynomials. Modern algebraic geometry is based on the use of abstract algebraic techniques, mainly from commutative algebra, for solving geometrical problems about these sets of zeros. The fundamental objects of study in algebraic geometry are algebraic varieties, which are geometric manifestations of ...

Algebraic geometry - Wikipedia

Algebraic geometry emerged from analytic geometry after 1850 when topology, complex analysis, and algebra were used to study algebraic curves. An algebraic curve C is the graph of an equation $f(x, y) = 0$, with points at infinity added, where $f(x, y)$ is a polynomial, in two complex

Algebraic geometry | mathematics | Britannica.com

Gröbner basis theory and real algebraic geometry are among more applied subfields of modern algebraic geometry. Arithmetic geometry is an active field combining algebraic geometry and number theory. Other directions of research involve moduli spaces and complex geometry. Algebro-geometric methods are commonly applied in string and brane theory.

Geometry - Wikipedia

SOLUTIONS TO ALGEBRAIC GEOMETRY AND ARITHMETIC CURVES BY QING LIU CIHAN BAHRAN_ I will collect my solutions to some of the exercises in this book in this document. Section 2.1 1. Let $\bar{A} = k[[T]]$ be the ring of formal power series with coefficients in a field k . Determine $\text{Spec } \bar{A}$. Note that every nonzero $f \in \bar{A}$ can be written as $f = T^n g$ where $n \geq 0$ and g is a power

Section 2 - Math User Home Pages

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An algebraic variety of dimension one. An algebraic curve is the most frequently studied object in algebraic geometry. In the sequel, an algebraic curve means an irreducible algebraic curve over an algebraically closed field. For the line, i.e. any divisor of degree zero is a principal divisor ...

Algebraic curve - Encyclopedia of Mathematics

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graphs, and discuss some applications in arithmetic and algebraic geometry. All graphs considered here are supposed to be connected. 1. Algebraic geometry of metric graphs In this section, we provide some background on algebraic geometry of metric graphs, and explain the link from algebraic geometry of curves to that of metric graphs. The ...

GEOMETRY OF GRAPHS AND APPLICATIONS IN ARITHMETIC AND ...

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Our individual research interests at SFU cover a broad spectrum, including toric geometry, linear subspaces of varieties, modular curves, and rational points on hyperelliptic curves. The algebraic and arithmetic geometry group runs a regularly meeting research seminar. For more information, see link here...

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