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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.

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At Stanford, faculty in algebraic geometry and related fields use these methods to study the cohomology and geometry of the moduli space of curves, the foundations of Gromov-Witten theory, the geometry of algebraic cycles, and problems of enumerative geometry, as well as many other topics.

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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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Topics include:

Rational points on conics; p-adic numbers

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One of the most
important theorems
about elliptic curves is
the modularity
theorem, proved by
Wiles, Taylor, et. al.
twenty or so years ago,
which implies FLT.

These arguments also
depend heavily on
modern algebraic
geometry. Also, the
proof of the Sato--Tate
conjecture. Also, all
current progress on the

BSD conjecture.

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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
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polynomials, such as is
often covered in a one-
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