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"Basic Algebraic Geometry, Volume I" is a revised and expanded new edition of the first four chapters of Shafarevich's well-known introductory book on algebraic geometry. The author has added plenty of new, mostly concrete geometrical material such as Grassmannian varieties, plane cubic curves, the cubic surface, degenerations of quadrics and elliptic curves, the Bertini theorems, normal surface singularities.

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Chapter 1 discusses a number of the basic ideas of algebraic geometry; this first section treats some examples to prepare the ground for these ideas. 1.1 Plane Curves Analgebraic plane curve is a curve consisting of the points of the plane whose coordinates x, y satisfy an equation $f(x, y) = 0$, where f is a nonconstant polynomial.

~~Igor R. Shafarevich Basic Algebraic Geometry 1~~

"The author's two-volume textbook 'Basic Algebraic Geometry' is one of the most popular standard primers in the field. ... the author's unique classic is a perfect first introduction to the geometry of algebraic varieties for students and nonspecialists, and the current, improved third edition will maintain this outstanding role of the textbook in the relevant literature without any ...

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Basic Algebraic Geometry 1: Varieties in Projective Space Igor R. Shafarevich (auth.) Shafarevich's Basic Algebraic Geometry has been a classic and universally used introduction to the subject since its first appearance over 40 years ago.

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Algebraic varieties are the central objects of study in algebraic geometry, a sub-field of mathematics. Classically, an algebraic variety is defined as the set of solutions of a system of polynomial equations over the real or complex numbers. Modern definitions generalize this concept in several different ways, while attempting to preserve the geometric intuition behind the original definition. Conventions regarding the definition of an algebraic variety differ slightly. For example, some defini

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Shafarevich's Basic Algebraic Geometry has been a classic and universally used introduction to the subject since its first appearance over 40 years ago. As the translator writes in a preface note, "For all [advanced undergraduate and beginning graduate] students, and for the many specialists in other branches of math who need a liberal education in algebraic geometry, Shafarevich's book ...

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My recommendations are Fulton's Algebraic Curves (available for free online in PDF format), Eisenbud's Commutative Algebra with a View Towards Algebraic Geometry (of course, this contains much more than you need, but it's outstanding in all aspects), Harris's Algebraic Geometry: A First Course, and probably also Mumford's Red Book.

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Algebraic Varieties over the Field of Complex Numbers and Complex Analytic Manifolds. Front Matter. Pages 307-307. PDF. ... Pages 380-408. Back Matter. Pages 409-439. PDF. About this book. Keywords. Algebraic Basic Manifold algebra function geometry mathematics . Authors and affiliations. Igor R. Shafarevich. 1; 1. Steklov Mathematical ...

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The 15 years that have elapsed since the first edition have seen the appearance of many beautiful books treating various branches of algebraic geometry. However, as far as I know, no other author has been attracted to the aim which this book set itself: to give an overall view of the many varied aspects of algebraic geometry, without going too far afield into the different theories.

Shafarevich's Basic Algebraic Geometry has been a classic and universally used introduction to the subject since its first appearance over 40 years ago. As the translator writes in a preface note, "For all [advanced undergraduate and beginning graduate] students, and for the many specialists in other branches of math who need a liberal education in algebraic geometry, Shafarevich's book is a must." The third edition, in addition to some minor corrections, now offers a new treatment of the Riemann-Roch theorem for curves, including a proof from first principles. Shafarevich's book is an attractive and accessible introduction to algebraic geometry, suitable for beginning students and nonspecialists, and the new edition is set to remain a popular introduction to the field.

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The second volume of Shafarevich's introductory book on algebraic geometry focuses on schemes, complex algebraic varieties and complex manifolds. As with first volume the author has revised the text and added new material. Although the material is more advanced than in Volume 1 the algebraic apparatus is kept to a minimum making the book accessible to non-specialists. It can be read independently of the first volume and is suitable for beginning graduate students.

The second volume of Shafarevich's introductory book on algebraic varieties and complex manifolds. As with Volume 1, the author has revised the text and added new material, e.g. as a section on real algebraic curves. Although the material is more advanced than in Volume 1 the algebraic apparatus is kept to a minimum, making the book accessible to non-specialists. It can be read independently of Volume 1 and is suitable for beginning graduate students in mathematics as well as those in theoretical physics.

"... To sum up, this book helps to learn algebraic geometry in a short time, its concrete style is enjoyable for students and reveals the beauty of mathematics." --Acta Scientiarum Mathematicarum

This short and readable introduction to algebraic geometry will be ideal for all undergraduate mathematicians coming to the subject for the first time.

This two-part EMS volume provides a succinct summary of complex algebraic geometry, coupled with a lucid introduction to the recent work on the interactions between the classical area of the geometry of complex algebraic curves and their Jacobian varieties. An excellent companion to the older classics on the subject.

An introduction to abstract algebraic geometry, with the only prerequisites being results from commutative algebra, which are stated as needed, and some elementary topology. More than 400 exercises distributed throughout the book offer specific examples as well as more specialised topics not treated in the main text, while three appendices present brief accounts of some areas of current research. This book can thus be used as textbook for an introductory course in algebraic geometry following a basic graduate course in algebra. Robin Hartshorne studied algebraic geometry with Oscar Zariski and David Mumford at Harvard, and with J.-P. Serre and A. Grothendieck in Paris. He is the author of "Residues and Duality", "Foundations of Projective Geometry", "Ample Subvarieties of Algebraic Varieties", and numerous research titles.

Beginning algebraic geometers are well served by Uneno's inviting introduction to the language of schemes. Grothendieck's schemes and Zariski's emphasis on algebra and rigor are primary sources for this introduction to a rich mathematical subject. Uneno's book is a self-contained text suitable for an introductory course on algebraic geometry.