



# Algebraic Curves over a Finite Field (Princeton Series in Applied Mathematics)

*J. W.P. Hirschfeld, G. Korchmáros, F. Torres*

Download now

[Click here](#) if your download doesn't start automatically

# Algebraic Curves over a Finite Field (Princeton Series in Applied Mathematics)

*J. W.P. Hirschfeld, G. Korchmáros, F. Torres*

**Algebraic Curves over a Finite Field (Princeton Series in Applied Mathematics)** J. W.P. Hirschfeld, G. Korchmáros, F. Torres

This book provides an accessible and self-contained introduction to the theory of algebraic curves over a finite field, a subject that has been of fundamental importance to mathematics for many years and that has essential applications in areas such as finite geometry, number theory, error-correcting codes, and cryptology. Unlike other books, this one emphasizes the algebraic geometry rather than the function field approach to algebraic curves.

The authors begin by developing the general theory of curves over any field, highlighting peculiarities occurring for positive characteristic and requiring of the reader only basic knowledge of algebra and geometry. The special properties that a curve over a finite field can have are then discussed. The geometrical theory of linear series is used to find estimates for the number of rational points on a curve, following the theory of Stöhr and Voloch. The approach of Hasse and Weil via zeta functions is explained, and then attention turns to more advanced results: a state-of-the-art introduction to maximal curves over finite fields is provided; a comprehensive account is given of the automorphism group of a curve; and some applications to coding theory and finite geometry are described. The book includes many examples and exercises. It is an indispensable resource for researchers and the ideal textbook for graduate students.

 [Download Algebraic Curves over a Finite Field \(Princeton Se ...pdf](#)

 [Read Online Algebraic Curves over a Finite Field \(Princeton ...pdf](#)

## **Download and Read Free Online Algebraic Curves over a Finite Field (Princeton Series in Applied Mathematics) J. W.P. Hirschfeld, G. Korchmáros, F. Torres**

---

### **From reader reviews:**

#### **Colleen Thompson:**

Hey guys, do you would like to finds a new book to learn? May be the book with the subject Algebraic Curves over a Finite Field (Princeton Series in Applied Mathematics) suitable to you? The book was written by renowned writer in this era. The particular book untitled Algebraic Curves over a Finite Field (Princeton Series in Applied Mathematics)is the main one of several books that everyone read now. That book was inspired many people in the world. When you read this publication you will enter the new age that you ever know prior to. The author explained their thought in the simple way, thus all of people can easily to be aware of the core of this reserve. This book will give you a great deal of information about this world now. So that you can see the represented of the world within this book.

#### **Todd Goff:**

The guide untitled Algebraic Curves over a Finite Field (Princeton Series in Applied Mathematics) is the reserve that recommended to you to learn. You can see the quality of the e-book content that will be shown to anyone. The language that creator use to explained their ideas are easily to understand. The author was did a lot of exploration when write the book, therefore the information that they share to your account is absolutely accurate. You also could possibly get the e-book of Algebraic Curves over a Finite Field (Princeton Series in Applied Mathematics) from the publisher to make you more enjoy free time.

#### **Eddie Drennan:**

Are you kind of hectic person, only have 10 or 15 minute in your morning to upgrading your mind ability or thinking skill perhaps analytical thinking? Then you are having problem with the book when compared with can satisfy your limited time to read it because pretty much everything time you only find reserve that need more time to be examine. Algebraic Curves over a Finite Field (Princeton Series in Applied Mathematics) can be your answer because it can be read by a person who have those short free time problems.

#### **Ronald Sadowski:**

You can spend your free time you just read this book this reserve. This Algebraic Curves over a Finite Field (Princeton Series in Applied Mathematics) is simple to create you can read it in the recreation area, in the beach, train in addition to soon. If you did not possess much space to bring the actual printed book, you can buy the particular e-book. It is make you much easier to read it. You can save typically the book in your smart phone. Therefore there are a lot of benefits that you will get when one buys this book.

**Download and Read Online Algebraic Curves over a Finite Field  
(Princeton Series in Applied Mathematics) J. W.P. Hirschfeld, G.  
Korchmáros, F. Torres #1VEYCH34ZRU**

## **Read Algebraic Curves over a Finite Field (Princeton Series in Applied Mathematics) by J. W.P. Hirschfeld, G. Korchmáros, F. Torres for online ebook**

Algebraic Curves over a Finite Field (Princeton Series in Applied Mathematics) by J. W.P. Hirschfeld, G. Korchmáros, F. Torres Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Algebraic Curves over a Finite Field (Princeton Series in Applied Mathematics) by J. W.P. Hirschfeld, G. Korchmáros, F. Torres books to read online.

## **Online Algebraic Curves over a Finite Field (Princeton Series in Applied Mathematics) by J. W.P. Hirschfeld, G. Korchmáros, F. Torres ebook PDF download**

**Algebraic Curves over a Finite Field (Princeton Series in Applied Mathematics) by J. W.P. Hirschfeld, G. Korchmáros, F. Torres Doc**

**Algebraic Curves over a Finite Field (Princeton Series in Applied Mathematics) by J. W.P. Hirschfeld, G. Korchmáros, F. Torres Mobipocket**

**Algebraic Curves over a Finite Field (Princeton Series in Applied Mathematics) by J. W.P. Hirschfeld, G. Korchmáros, F. Torres EPub**