

Complex Algebraic Curves

FRANCES KIRWAN

London Mathematical Society
Student Texts **23**

Complex Algebraic Curves Kirwan

Rick Miranda



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Complex Algebraic Curves Frances Clare Kirwan, 1992-02-20 This development of the theory of complex algebraic curves was one of the peaks of nineteenth century mathematics They have many fascinating properties and arise in various areas of mathematics from number theory to theoretical physics and are the subject of much research By using only the basic techniques acquired in most undergraduate courses in mathematics Dr Kirwan introduces the theory observes the algebraic and topological properties of complex algebraic curves and shows how they are related to complex analysis

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Complex Algebraic Curves Frances Clare Kirwan, 1987 Complex Algebraic Curves China Edition Frances Kirwan, 1992

A Scrapbook of Complex Curve Theory Charles Herbert Clemens, 2002-12-10 This fine book by Herb Clemens quickly became a favorite of many algebraic geometers when it was first published in 1980 It has been popular with novices and experts ever since It is written as a book of impressions of a journey through the theory of complex algebraic curves Many topics of compelling beauty occur along the way A cursory glance at the subjects visited reveals a wonderfully eclectic selection from conics and cubics to theta functions Jacobians and questions of moduli By the end of the book the theme of theta functions becomes clear culminating in the Schottky problem The author's intent was to motivate further study and to stimulate mathematical activity The attentive reader will learn much about complex algebraic curves and the tools used to study them The book can be especially useful to anyone preparing a course on the topic of complex curves or anyone interested in supplementing his/her reading

Plane Algebraic Curves Gerd Fischer, 2001 This is an excellent introduction to algebraic geometry which assumes only standard undergraduate mathematical topics complex analysis rings and fields and topology Reading this book will help establish the geometric intuition that lies behind the more advanced ideas and techniques used in the study of higher dimensional varieties

Algebraic Curves and Riemann Surfaces Rick Miranda, 2025-10-10 The book was easy to understand with many examples The exercises were well chosen and served to give further examples and developments of the theory William Goldman University of Maryland In this book Miranda takes the approach that algebraic curves are best encountered for the first time over the complex numbers where the reader's classical intuition about surfaces integration and other concepts can be brought into play Therefore many examples of algebraic curves are presented in the first chapters In this way the book begins as a primer on Riemann surfaces with

complex charts and meromorphic functions taking center stage But the main examples come from projective curves and slowly but surely the text moves toward the algebraic category Proofs of the Riemann Roch and Serre Duality Theorems are presented in an algebraic manner via an adaptation of the adelic proof expressed completely in terms of solving a Mittag Leffler problem Sheaves and cohomology are introduced as a unifying device in the latter chapters so that their utility and naturalness are immediately obvious Requiring a background of one semester of complex variable theory and a year of abstract algebra this is an excellent graduate textbook for a second semester course in complex variables or a year long course in algebraic geometry

Algebraic Curves over a Finite Field J. W. P. Hirschfeld, Gabor Korchmaros, Fernando Torres, 2013-03-25 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 St hr 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

Frobenius Algebras and 2-D Topological Quantum Field Theories Joachim Kock, 2004 This 2003 book describes a striking connection between topology and algebra namely that 2D topological quantum field theories are equivalent to commutative Frobenius algebras The precise formulation of the theorem and its proof is given in terms of monoidal categories and the main purpose of the book is to develop these concepts from an elementary level and more generally serve as an introduction to categorical viewpoints in mathematics Rather than just proving the theorem it is shown how the result fits into a more general pattern concerning universal monoidal categories for algebraic structures Throughout the emphasis is on the interplay between algebra and topology with graphical interpretation of algebraic operations and topological structures described algebraically in terms of generators and relations The book will prove valuable to students or researchers entering this field who will learn a host of modern techniques that will prove useful for future work

The Practice of Algebraic Curves David Eisenbud, Joe Harris, 2024-11-07 This textbook provides readers with a working knowledge of the modern theory of complex projective algebraic curves Also known as compact Riemann surfaces such curves shaped the development of algebraic geometry itself making this theory essential background for

anyone working in or using this discipline Examples underpin the presentation throughout illustrating techniques that range across classical geometric theory modern commutative algebra and moduli theory The book begins with two chapters covering basic ideas including maps to projective space invertible sheaves and the Riemann Roch theorem Subsequent chapters alternate between a detailed study of curves up to genus six and more advanced topics such as Jacobians Hilbert schemes moduli spaces of curves Severi varieties dualizing sheaves and linkage of curves in 3 space Three chapters treat the refinements of the Brill Noether theorem including applications and a complete proof of the basic result Two chapters on free resolutions rational normal scrolls and canonical curves build context for Green s conjecture The book culminates in a study of Hilbert schemes of curves through examples A historical appendix by Jeremy Gray captures the early development of the theory of algebraic curves Exercises illustrations and open problems accompany the text throughout The Practice of Algebraic Curves offers a masterclass in theory that has become essential in areas ranging from algebraic geometry itself to mathematical physics and other applications Suitable for students and researchers alike the text bridges the gap from a first course in algebraic geometry to advanced literature and active research

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