Chapter 7

Singular curves

Up to this point our attention has been given almost entirely to *nonsingular* curves. In this chapter we shall look at *singular* projective curves in $\mathbf{P}_2$. However the study of the singularities of curves is a huge subject (see e.g. [Brieskorn & Knörrer 86] and the references therein) and we shall be able to cover only a tiny fraction of it.

In §7.1 we shall construct a "resolution of singularities" $\tilde{C}$ for any singular projective curve C in $\mathbf{P}_2$, in the sense that $\tilde{C}$ is a compact Riemann surface with a surjective continuous map $\pi : \tilde{C} \longrightarrow C$ such that $\pi^{-1}(Sing(C))$ is a finite set of points in $\tilde{C}$ and the restriction of π to the complement of this set in $\tilde{C}$ is a holomorphic bijection onto the nonsingular part of C. In §7.2 we shall investigate what a singular curve looks like near a singular point, using a method which goes back to Newton. Finally in §7.3 we shall give a description of the topology of singular curves.

7.1   Resolution of singularities

In this section we shall relate the complex projective curve

$$C = \{[x, y, z] \in \mathbf{P}_2 \ : \ P(x, y, z) = 0\}$$

to the holomorphic functions $y(x)$ defined on open subsets of $\mathbf{C}$ satisfying

$$P(x, y(x), 1) = 0.$$

The implicit function theorem of complex analysis (see Appendix B) tells us that if $[a, b, c] \in C$ satisfies

$$c \neq 0 \neq \frac{\partial P}{\partial y}(a, b, c)$$

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Kenji Ueno

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Algebraic Geometry III A.N. Parshin,I.R. Shafarevich,2013-04-17 Starting with the end of the seventeenth century one of the most interesting directions in mathematics attracting the attention as J Bernoulli Euler Jacobi Legendre Abel among others has been the study of integrals of the form r dz l Aw T TO W where w is an algebraic function of z Such integrals are now called abelian Let us examine the simplest instance of an abelian integral one where w is defined by the polynomial equation 1 where the polynomial on the right hand side has no multiple roots In this case the function Aw is called an elliptic integral The value of Aw is determined up to mv nv where v and v are complex numbers and m and n are 1 2 1 2 integers The set of linear combinations mv nv forms a lattice H C C and 1 2 so to each elliptic integral Aw we can associate the torus C H 2 On the other hand equation 1 defines a curve in the affine plane C 2 2 z w Let us complete C2 to the projective plane lP lP C by the addition of the line at infinity and let us also complete the curve defined 2 by equation 1 The result will be a nonsingular closed curve E C lP which can also be viewed as a Riemann surface Such a curve is called an elliptic curve

Algebraic Curves and Riemann Surfaces Rick Miranda,1995 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 centre stage But the main examples come fromprojective curves and slowly but surely the text moves toward the algebraic category Proofs of the Riemann Roch and Serre Dualtiy 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 andcohomology are introduced as a unifying device in the later chapters so that their utility and naturalness are immediately obvious Requiring a background of one term of complex variable theory and a year of abstract algebra this is an excellent graduate textbook for a second term course in complex variables or a year long course in algebraic geometry **Complex Algebraic Curves China Edition** Frances Kirwan,1992 **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 代数几何/III/代数曲面,代数曲线的黎曼曲面方面/代数曲线黎曼曲面/Algebraic geometry A. N. Parshin,Igor' Rostislavovich Shafarevich,1998 Algebraic Geometry I V.I. Danilov,V.V. Shokurov,2013-12-01 From the reviews This volume consists of two papers The first written by V V Shokurov is devoted to the theory of Riemann surfaces and algebraic curves It is an excellent overview of the theory of relations between Riemann surfaces and their models complex algebraic curves in complex projective spaces The second paper written by V I Danilov discusses algebraic varieties and schemes I can recommend the book as a very good introduction to the basic algebraic geometry European Mathematical Society Newsletter 1996 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   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   **Algebraic Curves** Maxim E. Kazaryan,Sergei K. Lando,Victor V. Prasolov,2019-01-21 This book offers a concise yet thorough introduction to the notion of moduli spaces of complex algebraic curves Over the last few decades this notion has become central not only in algebraic geometry but in mathematical physics including string theory as well The book begins by studying individual smooth algebraic curves including the most beautiful ones before addressing families of curves Studying families of algebraic curves often proves to be more efficient than studying individual curves these families and their total spaces can still be smooth even if there are singular curves among their members A major discovery of the 20th century attributed to P Deligne and D Mumford was that curves with only mild singularities form smooth compact moduli spaces An unexpected byproduct of this discovery was the realization that the analysis of more complex curve singularities is not a necessary step in understanding the geometry of the moduli spaces The book does not use the sophisticated machinery of modern algebraic geometry and most classical objects related to curves such as Jacobian space of holomorphic differentials the Riemann Roch theorem and Weierstrass points are treated at a basic level that does not require a profound command of algebraic geometry but which is sufficient for extending them to vector bundles and other geometric objects associated to moduli spaces Nevertheless it offers clear information on the construction of the moduli spaces and provides readers with tools for practical operations with this notion Based on several lecture courses given by the authors at the Independent University of Moscow and Higher School of Economics the book also includes a wealth of problems making it

suitable not only for individual research but also as a textbook for undergraduate and graduate coursework   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   *Algebraic Geometry III* A.N. Parshin,I.R. Shafarevich,2014-03-12 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   Algebraic Geometry III A.N. Parshin,Игорь Ростиславович Шафаревич,1998 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   Algebraic Geometry I V.I. Danilov,V.V. Shokurov,2006-12-15 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   **A Scrapbook of Complex Curve Theory** C. Herbert Clemens,2013-11-11 This is a book of impressions of a journey through the theory of com plex algebraic curves It is neither self contained balanced nor particularly tightly organized As with any notebook made on a journey what appears is that which strikes the writer s fancy Some topics appear because of their compelling intrinsic beauty Others are left out because for all their impor tance the traveler found them boring or was too dull or lazy to give them their due Looking back at the end of the journey one can see that a common theme in fact does emerge as is so often the case that theme is the theory of theta functions In fact very much of the material in the book is prepara tion for our study of the final topic the so called Schottky problem More than once in fact we tear ourselves away from interesting topics leading elsewhere and return to our main route   **An Introduction to Algebraic Geometry** Kenji Ueno,1997 This introduction to algebraic geometry allows readers to grasp the fundamentals of the subject with only linear algebra and calculus as prerequisites After a brief history of the subject the book introduces projective spaces and projective varieties and explains plane curves and resolution of their singularities The volume further develops the geometry of algebraic curves and treats congruence zeta functions of algebraic curves over a finite field It concludes with a complex analytical discussion of algebraic curves The

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