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Plane Algebraic Curves

Gerd Fischer

Plane Algebraic Curves

Julian Lowell Coolidge



Plane Algebraic Curves:

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

Introduction to Plane Algebraic Curves Ernst Kunz, 2007-06-10 Employs proven conception of teaching topics in commutative algebra through a focus on their applications to algebraic geometry a significant departure from other works on plane algebraic curves in which the topological analytic aspects are stressed Requires only a basic knowledge of algebra with all necessary algebraic facts collected into several appendices Studies algebraic curves over an algebraically closed field K and those of prime characteristic which can be applied to coding theory and cryptography Covers filtered algebras the associated graded rings and Rees rings to deduce basic facts about intersection theory of plane curves applications of which are standard tools of computer algebra Examples exercises figures and suggestions for further study round out this fairly self contained textbook

Plane Algebraic Curves C. Orzech, 1981-01-01 Plane Algebraic Curves is a classroom tested textbook for advanced undergraduate and beginning graduate students in mathematics The book introduces the contemporary notions of algebraic varieties morphisms of varieties and adeles to the classical subject of plane curves over algebraically closed fields By restricting the rigorous development of these notions to a traditional context the book makes its subject accessible without extensive algebraic prerequisites Once the reader's intuition for plane curves has evolved there is a discussion of how these objects can be generalized to higher dimensional settings These features as well as a proof of the Riemann-Roch Theorem based on a combination of geometric and algebraic considerations make the book a good foundation for more specialized study in algebraic geometry commutative algebra and algebraic function fields Plane Algebraic Curves is suitable for readers with a variety of backgrounds and interests The book begins with a chapter outlining prerequisites and contains informal discussions giving an overview of its material and relating it to non algebraic topics which would be familiar to the general reader There is an explanation of why the algebraic genus of a hyperelliptic curve agrees with its geometric genus as a compact Riemann surface as well as a thorough description of how the classically important elliptic curves can be described in various normal forms The book concludes with a bibliography which students can incorporate into their further studies Book jacket

A Guide to Plane Algebraic Curves Keith Kendig, 2011 This Guide is a friendly introduction to plane algebraic curves It emphasizes geometry and intuition and the presentation is kept concrete You'll find an abundance of pictures and examples to help develop your intuition about the subject which is so basic to understanding and asking fruitful questions Highlights of the elementary theory are covered which for some could be an end in itself and for others an invitation to investigate further Proofs when given are mostly sketched some in more detail but typically with less References to texts that provide further discussion are often included Computer algebra software has

made getting around in algebraic geometry much easier Algebraic curves and geometry are now being applied to areas such as cryptography complexity and coding theory robotics biological networks and coupled dynamical systems Algebraic curves were used in Andrew Wiles proof of Fermat's Last Theorem and to understand string theory you need to know some algebraic geometry There are other areas on the horizon for which the concepts and tools of algebraic curves and geometry hold tantalizing promise This introduction to algebraic curves will be appropriate for a wide segment of scientists and engineers wanting an entrance to this burgeoning subject **Plane Algebraic Curves** BRIESKORN,KNÖRRER,2013-11-11

Plane Algebraic Curves C. Orzech,2024-12-11 This book introduces the contemporary notions of algebraic varieties morphisms of varieties and adeles to the classical subject of plane curves over algebraically closed fields It is useful for advanced undergraduate and beginning graduate students in mathematics Plane Algebraic Curves HardPress,Hilton Harold 1876, B.,2013-01 Unlike some other reproductions of classic texts 1 We have not used OCR Optical Character Recognition as this leads to bad quality books with introduced typos 2 In books where there are images such as portraits maps sketches etc We have endeavoured to keep the quality of these images so they represent accurately the original artefact Although occasionally there may be certain imperfections with these old texts we feel they deserve to be made available for future generations to enjoy Elementary Geometry of Algebraic Curves Christopher G. Gibson,1998-11-26 Here is an introduction to plane algebraic curves from a geometric viewpoint designed as a first text for undergraduates in mathematics or for postgraduate and research workers in the engineering and physical sciences The book is well illustrated and contains several hundred worked examples and exercises From the familiar lines and conics of elementary geometry the reader proceeds to general curves in the real affine plane with excursions to more general fields to illustrate applications such as number theory By adding points at infinity the affine plane is extended to the projective plane yielding a natural setting for curves and providing a flood of illumination into the underlying geometry A minimal amount of algebra leads to the famous theorem of Bezout while the ideas of linear systems are used to discuss the classical group structure on the cubic

Plane Algebraic Curves Egbert Brieskorn,Horst Knörrer,2012-08-26 In a detailed and comprehensive introduction to the theory of plane algebraic curves the authors examine this classical area of mathematics that both figured prominently in ancient Greek studies and remains a source of inspiration and a topic of research to this day Arising from notes for a course given at the University of Bonn in Germany Plane Algebraic Curves reflects the authors concern for the student audience through its emphasis on motivation development of imagination and understanding of basic ideas As classical objects curves may be viewed from many angles This text also provides a foundation for the comprehension and exploration of modern work on singularities In the first chapter one finds many special curves with very attractive geometric presentations the wealth of illustrations is a distinctive characteristic of this book and an introduction to projective geometry over the complex numbers In the second chapter one finds a very simple proof of Bezout's theorem and a detailed discussion of cubics The heart of this

book and how else could it be with the first author is the chapter on the resolution of singularities always over the complex numbers Especially remarkable is the outlook to further work on the topics discussed with numerous references to the literature Many examples round off this successful representation of a classical and yet still very much alive subject

Mathematical Reviews *Plane Algebraic Curves* Egbert Brieskorn, Horst Knörrer, 1986 **Plane Algebraic Curves** Harold Hilton, 1920 **Algebraic Curves** William Fulton, 1989 **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 **Plane Algebraic Curves** Eric John Fyfe Primrose, 1955 **PLANE ALGEBRAIC CURVES** HAROLD. HILTON, 2018 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 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 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 **Plane Algebraic Curves** Wallace Smith, 1947 **On the Arrangement of the Real Branches of Plane Algebraic Curves** Virginia Ragsdale, 1906 **A Topological Study of Certain Plane Algebraic Curves** Lucy Elizabeth Berger, 1925 **A Treatise on Algebraic Plane Curves** Julian Lowell Coolidge, 1931 The fundamental properties of polynomials Elementary properties of curves Real curves Real circuits of curves Elementary invariant theory Projective theory of singular points Plucker's equations and Klein's equations Covariant curves Metrical properties of curves The singular points The reduction of singularities Development in series Clustering singularities Adjoint curves and Plucker's equations Systems of points on a curve Abelian integrals Singular points of correspondences Moduli and limiting values Curves of special type Non linear series of groups of points on a curve Higher theory of correspondences Parametric representation of the general curve A sketch Rational curves Postulation of linear systems by points

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