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# Plane Algebraic Curves

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# Plane Algebraic Curves

**Egbert Brieskorn, Horst Knörrer**



## Plane Algebraic Curves:

**Plane Algebraic Curves** Egbert Brieskorn, Horst Knörrer, 2012-08-27 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

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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* 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 **Introduction to Plane Algebraic Curves** Ernst Kunz,2008-11-01 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** Egbert Brieskorn,Horst Knörrer,1986 **Ebene Algebraische Kurven** BRIESKORN,KNÖRRER,1988-01-01 **Plane Algebraic Curves** Harold Hilton,1920 **Plane Algebraic Curves** Egbert Brieskorn,Horst Knörrer,2012-08-26 In a detailed and comprehensive introduction to the theory of

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