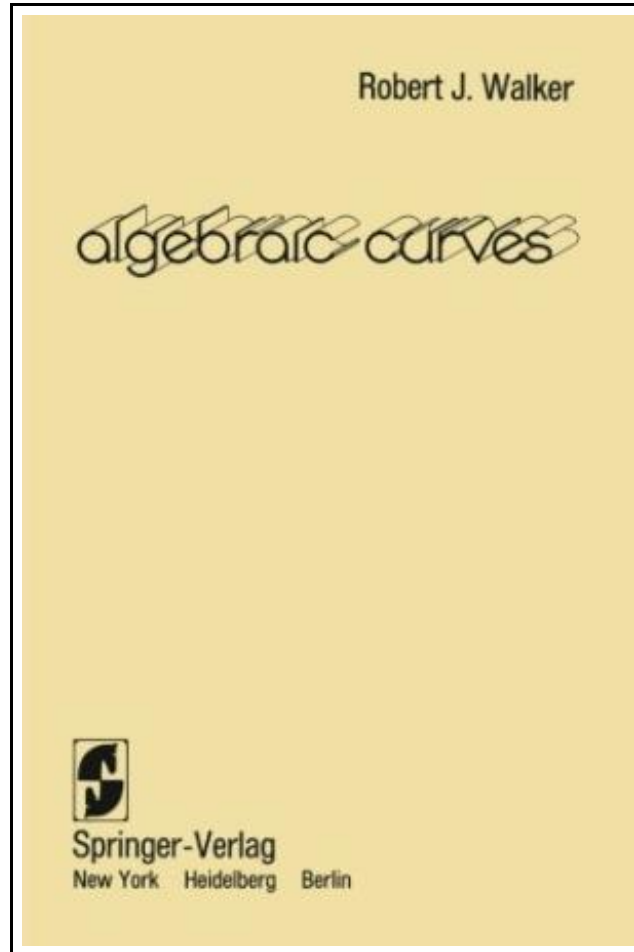# Algebraic Curves

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Reviews

It is really an incredible publication that we have possibly study. Of course, it really is engage in, continue to an interesting and amazing literature. You are going to like how the writer compose this publication.
(Bailey Lehner)

ALGEBRAIC CURVES

Book Condition: New. Publisher/Verlag: Springer, Berlin | This book was written to furnish a starting point for the study of algebraic geometry. The topics presented and methods of presenting them were chosen with the following ideas in mind; to keep the treat ment as elementary as possible, to introduce some of the recently devel oped algebraic methods of handling problems of algebraic geometry, to show how these methods are related to the older analytic and geometric methods, and to apply the general methods to specific geometric prob lems. These criteria led to a selection of topics from the theory of curves, centering around birational transformations and linear series. Experience in teaching the material showed the need of an intro duction to the underlying algebra and projective geometry, so this is supplied in the first two chapters. The inclusion of this material makes the book almost entirely self-contained. Methods of presentation, proof of theorems, and problems, have been adapted from various sources. We should mention, in particular, Severi-Laffier, Vorlesungen uber Algebraische Geometrie, van der Waerden, Algebraische Geometrie and Moderne Algebra, and lecture notes of S. Lefschetz and O. Zariski. We also wish to thank Mr. R. L. Beinert and Prof. G. L. Walker for suggestions and assistance with the proof, and particularly Prof. Saunders MacLane for a very careful examination and criticism of an early version of the work. R. J. WALKER Cornell University December 1, 1949 Contents Preface . | 'I. Algebraic Preliminaries.- 1. Set Theory.- Sets.- Single valued transformations.- Equivalence classes.- 2. Integral Domains and Fields.- Algebraic systems.- Integral domains.- Fields.- Homomorphisms of domains.- Exercises.- 3. Quotient Fields.- 4. Linear Dependence and Linear Equations.- Linear dependence.- Linear equations.- 5. Polynomials.- Polynomial domains.- The division transformation.- Exercise.- 6. Factorization in Polynomial Domains.- Factorization in domains.- Unique factorization of polynomials.- Exercises.-...

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