



Algebraic Surfaces

Robert Silhol



Algebraic Surfaces:

Algebraic Surfaces Lucian Badescu, 2013-03-14 The aim of this book is to present certain fundamental facts in the theory of algebraic surfaces defined over an algebraically closed field k of arbitrary characteristic The book is based on a series of talks given by the author in the Algebraic Geometry seminar at the Faculty of Mathematics University of Bucharest The main goal is the classification of nonsingular projective surfaces also called simply surfaces In the context of complex algebraic varieties the classification was obtained by Enriques and Castelnuovo Around 1960 Kodaira Kodl Kod2 revived and simplified the classification of complex algebraic surfaces and extended it to the case of compact analytic surfaces The problem of classifying surfaces in arbitrary characteristic remained open The first step in this direction was the purely algebraic proof valid in arbitrary characteristic due to Zariski Zarl Zar2 of Castelnuovo's criterion of rationality Then Mumford Mum3 Mum4 introduced several new ideas and the classification of surfaces in positive characteristic became possible Finally Bombieri and Mumford BM1 BM2 completed the classification of surfaces in arbitrary characteristic Their result was the following The same types of surfaces that exist in the case when k is the complex field arise in the general case if one sets aside certain pathologies that arise only in characteristic 2 or 3

Algebraic Surfaces Oscar Zariski, 2012-12-06 The aim of the present monograph is to give a systematic exposition of the theory of algebraic surfaces emphasizing the interrelations between the various aspects of the theory algebro geometric topological and transcendental To achieve this aim and still remain inside the limits of the allotted space it was necessary to confine the exposition to topics which are absolutely fundamental The present work therefore makes no claim to completeness but it does however cover most of the central points of the theory A presentation of the theory of surfaces to be effective at all must above all give the typical methods of proof used in the theory and their underlying ideas It is especially true of algebraic geometry that in this domain the methods employed are at least as important as the results The author has therefore avoided as much as possible purely formal accounts of results The proofs given are of necessity condensed for reasons of space but no attempt has been made to condense them beyond the point of intelligibility In many instances due to exigencies of simplicity and rigor the proofs given in the text differ to a greater or less extent from the proofs given in the original papers

Open Algebraic Surfaces Masayoshi Miyanishi, 2001 Open algebraic surfaces are a synonym for algebraic surfaces that are not necessarily complete An open algebraic surface is understood as a Zariski open set of a projective algebraic surface There is a long history of research on projective algebraic surfaces and there exists a beautiful Enriques Kodaira classification of such surfaces The research accumulated by Ramanujan Abhyankar Moh and Nagata and others has established a classification theory of open algebraic surfaces comparable to the Enriques Kodaira theory This research provides powerful methods to study the geometry and topology of open algebraic surfaces The theory of open algebraic surfaces is applicable not only to algebraic geometry but also to other fields such as commutative algebra invariant theory and singularities This book contains

a comprehensive account of the theory of open algebraic surfaces as well as several applications in particular to the study of affine surfaces Prerequisite to understanding the text is a basic background in algebraic geometry This volume is a continuation of the work presented in the author s previous publication Algebraic Geometry Volume 136 in the AMS series Translations of Mathematical Monographs

Non-complete Algebraic Surfaces M. Miyanishi,2006-11-15 **Algebraic Surfaces In Positive Characteristics: Purely Inseparable Phenomena In Curves And Surfaces** Masayoshi Miyanishi,Hiroyuki Ito,2020-06-29 Customarily the framework of algebraic geometry has been worked over an algebraically closed field of characteristic zero say over the complex number field However over a field of positive characteristics many unpredictable phenomena arise where analyses will lead to further developments In the present book we consider first the forms of the affine line or the additive group classification of such forms and detailed analysis The forms of the affine line considered over the function field of an algebraic curve define the algebraic surfaces with fibrations by curves with moving singularities These fibrations are investigated via the Mordell Weil groups which are originally introduced for elliptic fibrations This is the first book which explains the phenomena arising from purely inseparable coverings and Artin Schreier coverings In most cases the base surfaces are rational hence the covering surfaces are unirational There exists a vast unexplored world of unirational surfaces In this book we explain the Frobenius sandwiches as examples of unirational surfaces Rational double points in positive characteristics are treated in detail with concrete computations These kinds of computations are not found in current literature Readers by following the computations line after line will not only understand the peculiar phenomena in positive characteristics but also understand what are crucial in computations This type of experience will lead the readers to find the unsolved problems by themselves

Real Algebraic Surfaces Robert Silhol,2006-11-14 [Algebraic Surfaces](#) Oscar Zariski,1995-03-01 **On Degenerations of Algebraic Surfaces** Ulf Persson,1977 We will study the relationships between the components of a singular fiber and the non singular fiber in a family of surfaces over a disc Special emphasis will be put on the ties with classification theory of surfaces

Algebraic Surfaces and Holomorphic Vector Bundles Robert Friedman,1998-01-23 A novel feature of the book is its integrated approach to algebraic surface theory and the study of vector bundle theory on both curves and surfaces While the two subjects remain separate through the first few chapters they become much more tightly interconnected as the book progresses Thus vector bundles over curves are studied to understand ruled surfaces and then reappear in the proof of Bogomolov s inequality for stable bundles which is itself applied to study canonical embeddings of surfaces via Reider s method Similarly ruled and elliptic surfaces are discussed in detail before the geometry of vector bundles over such surfaces is analysed Many of the results on vector bundles appear for the first time in book form backed by many examples both of surfaces and vector bundles and over 100 exercises forming an integral part of the text Aimed at graduates with a thorough first year course in algebraic geometry as well as more advanced students and researchers in the areas of algebraic

geometry gauge theory or 4 manifold topology many of the results on vector bundles will also be of interest to physicists studying string theory

Complex Algebraic Surfaces Arnaud Beauville,1996-06-28 Developed over more than a century and still an active area of research today the classification of algebraic surfaces is an intricate and fascinating branch of mathematics In this book Professor Beauville gives a lucid and concise account of the subject following the strategy of F Enriques but expressed simply in the language of modern topology and sheaf theory so as to be accessible to any budding geometer This volume is self contained and the exercises succeed both in giving the flavour of the extraordinary wealth of examples in the classical subject and in equipping the reader with most of the techniques needed for research

Theory of Algebraic Surfaces Kunihiko Kodaira,2020-09-17 This is an English translation of the book in Japanese published as the volume 20 in the series of Seminar Notes from The University of Tokyo that grew out of a course of lectures by Professor Kunihiko Kodaira in 1967 It serves as an almost self contained introduction to the theory of complex algebraic surfaces including concise proofs of Gorenstein s theorem for curves on a surface and Noether s formula for the arithmetic genus It also discusses the behavior of the pluri canonical maps of surfaces of general type as a practical application of the general theory The book is aimed at graduate students and also at anyone interested in algebraic surfaces and readers are expected to have only a basic knowledge of complex manifolds as a prerequisite

Algebraic Surfaces Oscar Zariski,1899-1986 This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it This work is in the public domain in the United States of America and possibly other nations Within the United States you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work Scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public To ensure a quality reading experience this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy to read typeface We appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant

Algebraic Surfaces Игорь Ростиславович Шафаревич,1967 Revised reports based on the seminars on the theory of algebraic surfaces held in 1961 1963

Algebraic Geometry II I.R. Shafarevich,1995-12-21 This two part volume contains numerous examples and insights on various topics The authors have taken pains to present the material rigorously and coherently This book will be immensely useful to mathematicians and graduate students working in algebraic geometry arithmetic algebraic geometry complex analysis and related fields

Algebraic Curves and Surfaces Laurent Busé,Fabrizio Catanese,Elisa Postinghel,2024-05-06 This volume collects the lecture notes of the school TiME2019 Treasures in Mathematical Encounters The aim of this book is manifold it intends to overview the wide topic of algebraic curves and surfaces also with a view to higher dimensional varieties from different aspects the historical development that led to the theory of algebraic surfaces and the classification theorem of algebraic surfaces by Castelnuovo and Enriques the use of such

a classical geometric approach as the one introduced by Castelnuovo to study linear systems of hypersurfaces and the algebraic methods used to find implicit equations of parametrized algebraic curves and surfaces ranging from classical elimination theory to more modern tools involving syzygy theory and Castelnuovo Mumford regularity Since our subject has a long and venerable history this book cannot cover all the details of this broad topic theory and applications but it is meant to serve as a guide for both young mathematicians to approach the subject from a classical and yet computational perspective and for experienced researchers as a valuable source for recent applications

Algebraic Surfaces Oscar Zariski, 1899-1986
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Algebraic Surfaces Lucian Silvestru Badescu, 2014-01-15 An Introduction to the Theory of Algebraic Surfaces Oscar Zariski, 2006-11-14 **Lectures on Curves on an Algebraic Surface** David Mumford, 2016-03-02 These lectures delivered by Professor Mumford at Harvard in 1963 1964 are devoted to a study of properties of families of algebraic curves on a non singular projective algebraic curve defined over an algebraically closed field of arbitrary characteristic The methods and techniques of Grothendieck which have so changed the character of algebraic geometry in recent years are used systematically throughout Thus the classical material is presented from a new viewpoint

Resolution of Singularities of Embedded Algebraic Surfaces Shreeram Abhyankar, 1998-03-05 The common solutions of a finite number of polynomial equations in a finite number of variables constitute an algebraic variety The degrees of freedom of a moving point on the variety is the dimension of the variety A one dimensional variety is a curve and a two dimensional variety is a surface A three dimensional variety may be called a solid Most points of a variety are simple points Singularities are special points or points of multiplicity greater than one Points of multiplicity two are double points points of multiplicity three are triple points and so on A nodal point of a curve is a double point where the curve crosses itself such as the alpha curve A cusp is a double point where the curve has a beak The vertex of a cone provides an example of a surface singularity A reversible change of variables gives a birational transformation of a variety Singularities of a variety may be resolved by birational transformations

Unveiling the Energy of Verbal Beauty: An Mental Sojourn through **Algebraic Surfaces**

In a global inundated with monitors and the cacophony of quick connection, the profound power and mental resonance of verbal artistry frequently diminish into obscurity, eclipsed by the regular barrage of noise and distractions. However, situated within the musical pages of **Algebraic Surfaces**, a fascinating work of fictional elegance that pulses with fresh thoughts, lies an unforgettable trip waiting to be embarked upon. Published with a virtuoso wordsmith, this magical opus instructions visitors on a mental odyssey, delicately exposing the latent possible and profound impact stuck within the complex internet of language. Within the heart-wrenching expanse with this evocative examination, we can embark upon an introspective exploration of the book is key styles, dissect their charming publishing model, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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Algebraic Surfaces Introduction

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