

ALGEBRAS AND APPLICATIONS

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# Resolution of Curve and Surface Singularities in Characteristic Zero


K. Kiyek  
and  
J.L. Vicente

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Kluwer Academic Publishers

# Resolution Of Curve And Surface Singularities

**Wolfram Decker, Gerhard  
Pfister, Mathias Schulze**



## Resolution Of Curve And Surface Singularities:

**Deformations of Surface Singularities** Andras Némethi, Agnes Szilárd, 2014-01-24 The present publication contains a special collection of research and review articles on deformations of surface singularities that put together serve as an introductory survey of results and methods of the theory as well as open problems and examples The aim is to collect material that will help mathematicians already working or wishing to work in this area to deepen their insight and eliminate the technical barriers in this learning process Additionally we introduce some material which emphasizes the newly found relationship with the theory of Stein fillings and symplectic geometry This links two main theories of mathematics low dimensional topology and algebraic geometry The theory of normal surface singularities is a distinguished part of analytic or algebraic geometry with several important results its own technical machinery and several open problems Recently several connections were established with low dimensional topology symplectic geometry and theory of Stein fillings This created an intense mathematical activity with spectacular bridges between the two areas The theory of deformation of singularities is the key object in these connections Resolution of Curve and Surface Singularities in Characteristic Zero K. Kiyek, J.L. Vicente, 2012-09-11 The Curves The Point of View of Max Noether Probably the oldest references to the problem of resolution of singularities are found in Max Noether's works on plane curves cf 148 149 And probably the origin of the problem was to have a formula to compute the genus of a plane curve The genus is the most useful birational invariant of a curve in classical projective geometry It was long known that for a plane curve of degree  $n$  having  $l$   $m$  ordinary singular points with respective multiplicities  $r_i$   $i \in \{1, \dots, m\}$  the genus  $p$  of the curve is given by the formula  $n^2 - \sum_{i=1}^m r_i^2 - \sum_{i < j} r_i r_j = 2p$  Of course the problem now arises how to compute the genus of a plane curve having some non ordinary singularities This leads to the natural question can we birationally transform any singular plane curve into another one having only ordinary singularities The answer is positive Let us give a flavor without proofs 2 on how Noether did it To solve the problem it is enough to consider a special kind of Cremona transformations namely quadratic transformations of the projective plane Let  $\mathcal{L}$  be a linear system of conics with three non collinear base points  $r$   $A_0$   $A_1$   $A_2$  and take a projective frame of the type  $A_0$   $A_1$   $A_2$   $U$  *Lectures on Resolution of Singularities (AM-166)* János Kollár, 2009-01-10 Resolution of singularities is a powerful and frequently used tool in algebraic geometry In this book János Kollár provides a comprehensive treatment of the characteristic 0 case He describes more than a dozen proofs for curves many based on the original papers of Newton Riemann and Noether Kollár goes back to the original sources and presents them in a modern context He addresses three methods for surfaces and gives a self contained and entirely elementary proof of a strong and functorial resolution in all dimensions Based on a series of lectures at Princeton University and written in an informal yet lucid style this book is aimed at readers who are interested in both the historical roots of the modern methods and in a simple and transparent proof of this important theorem *Normal Surface Singularities* András Némethi, 2022-10-07 This monograph provides a comprehensive introduction to the theory of complex

normal surface singularities with a special emphasis on connections to low dimensional topology In this way it unites the analytic approach with the more recent topological one combining their tools and methods In the first chapters the book sets out the foundations of the theory of normal surface singularities This includes a comprehensive presentation of the properties of the link as an oriented 3 manifold and of the invariants associated with a resolution combined with the structure and special properties of the line bundles defined on a resolution A recurring theme is the comparison of analytic and topological invariants For example the Poincaré series of the divisorial filtration is compared to a topological zeta function associated with the resolution graph and the sheaf cohomologies of the line bundles are compared to the Seiberg Witten invariants of the link Equivariant Ehrhart theory is introduced to establish surgery additivity formulae of these invariants as well as for the regularization procedures of multivariable series In addition to recent research the book also provides expositions of more classical subjects such as the classification of plane and cuspidal curves Milnor fibrations and smoothing invariants the local divisor class group and the Hilbert Samuel function It contains a large number of examples of key families of germs rational elliptic weighted homogeneous superisolated and splice quotient It provides concrete computations of the topological invariants of their links Casson Walker and Seiberg Witten invariants Turaev torsion and of the analytic invariants geometric genus Hilbert function of the divisorial filtration and the analytic semigroup associated with the resolution The book culminates in a discussion of the topological and analytic lattice cohomologies as categorifications of the Seiberg Witten invariant and of the geometric genus respectively and of the graded roots Several open problems and conjectures are also formulated Normal Surface Singularities provides researchers in algebraic and differential geometry singularity theory complex analysis and low dimensional topology with an invaluable reference on this rich topic offering a unified presentation of the major results and approaches

### **Topology of Algebraic Varieties and Singularities** José Ignacio

Cogolludo-Agustín, Eriko Hironaka, 2011 This volume contains invited expository and research papers from the conference Topology of Algebraic Varieties in honour of Anatoly Libgober's 60th birthday held June 22-26 2009 in Jaca Spain

### **Handbook of Geometry and Topology of Singularities III** José Luis Cisneros-Molina, Lê Dũng Tráng, José

Seade, 2022-06-06 This is the third volume of the Handbook of Geometry and Topology of Singularities a series which aims to provide an accessible account of the state of the art of the subject its frontiers and its interactions with other areas of research This volume consists of ten chapters which provide an in depth and reader friendly survey of various important aspects of singularity theory Some of these complement topics previously explored in volumes I and II such as for instance Zariski's equisingularity the interplay between isolated complex surface singularities and 3 manifold theory stratified Morse theory constructible sheaves the topology of the non critical levels of holomorphic functions and intersection cohomology Other chapters bring in new subjects such as the Thom-Mather theory for maps characteristic classes for singular varieties mixed Hodge structures residues in complex analytic varieties nearby and vanishing cycles and more Singularities are

ubiquitous in mathematics and science in general Singularity theory interacts energetically with the rest of mathematics acting as a crucible where different types of mathematical problems interact surprising connections are born and simple questions lead to ideas which resonate in other parts of the subject and in other subjects Authored by world experts the various contributions deal with both classical material and modern developments covering a wide range of topics which are linked to each other in fundamental ways The book is addressed to graduate students and newcomers to the theory as well as to specialists who can use it as a guidebook

*On the Resolution of Higher Singularities of Algebraic Curves Into Ordinary Nodes* Buz M. Walker, 1906 *On the Resolution of Higher Singularities of Algebraic Curves Into Ordinary Modes* Buz M. Walker, 1906 *The Resolution of Singular Algebraic Varieties* David Ellwood, Herwig Hauser, Shigefumi Mori, Josef

Schicho, 2014-12-12 Resolution of Singularities has long been considered as being a difficult to access area of mathematics

The more systematic and simpler proofs that have appeared in the last few years in zero characteristic now give us a much better understanding of singularities They reveal the aesthetics of both the logical structure of the proof and the various methods used in it The present volume is intended for readers who are not yet experts but always wondered about the intricacies of resolution As such it provides a gentle and quite comprehensive introduction to this amazing field The book may tempt the reader to enter more deeply into a topic where many mysteries especially the positive characteristic case await to be disclosed Titles in this series are co published with the Clay Mathematics Institute Cambridge MA **Compact**

**Complex Surfaces** W. Barth, K. Hulek, Chris Peters, A. van de Ven, 2015-05-22 In the 19 years which passed since the first edition was published several important developments have taken place in the theory of surfaces The most sensational one concerns the differentiable structure of surfaces Twenty years ago very little was known about differentiable structures on 4 manifolds but in the meantime Donaldson on the one hand and Seiberg and Witten on the other hand have found inspired by gauge theory totally new invariants Strikingly together with the theory explained in this book these invariants yield a wealth of new results about the differentiable structure of algebraic surfaces Other developments include the systematic use of nef divisors in accordance with the progress made in the classification of higher dimensional algebraic varieties a better understanding of Kahler structures on surfaces and Reid's new approach to adjoint mappings All these developments have been incorporated in the present edition though the Donaldson and Seiberg Witten theory only by way of examples Of course we use the opportunity to correct some minor mistakes which we either have discovered ourselves or which were communicated to us by careful readers to whom we are much obliged **Arithmetic and Geometry Around**

**Hypergeometric Functions** Rolf-Peter Holzapfel, Muhammed Uludag, M. Yoshida, 2007-06-28 This volume comprises lecture notes survey and research articles originating from the CIMPA Summer School Arithmetic and Geometry around

Hypergeometric Functions held at Galatasaray University Istanbul June 13 25 2005 It covers a wide range of topics related to hypergeometric functions thus giving a broad perspective of the state of the art in the field **Introduction to Lipschitz**

**Geometry of Singularities** Walter Neumann, Anne Pichon, 2021-01-11 This book presents a broad overview of the important recent progress which led to the emergence of new ideas in Lipschitz geometry and singularities and started to build bridges to several major areas of singularity theory Providing all the necessary background in a series of introductory lectures it also contains Pham and Teissier's previously unpublished pioneering work on the Lipschitz classification of germs of plane complex algebraic curves While a real or complex algebraic variety is topologically locally conical it is in general not metrically conical there are parts of its link with non trivial topology which shrink faster than linearly when approaching the special point The essence of the Lipschitz geometry of singularities is captured by the problem of building classifications of the germs up to local bi Lipschitz homeomorphism The Lipschitz geometry of a singular space germ is then its equivalence class in this category The book is aimed at graduate students and researchers from other fields of geometry who are interested in studying the multiple open questions offered by this new subject

**Singularity Theory** Denis Chéniot, 2007 The Singularity School and Conference took place in Luminy Marseille from January 24th to February 25th 2005 More than 180 mathematicians from over 30 countries converged to discuss recent developments in singularity theory The volume contains the elementary and advanced courses conducted by singularities specialists during the conference general lectures on singularity theory and lectures on applications of the theory to various domains The subjects range from geometry and topology of singularities through real and complex singularities to applications of singularities

[Singularities and Topology of Hypersurfaces](#) Alexandru Dimca, 2012-12-06

**Handbook of Geometry and Topology of Singularities I** José Luis Cisneros Molina, Dũng Tráng Lê, José Seade, 2020-10-24 This volume consists of ten articles which provide an in depth and reader friendly survey of some of the foundational aspects of singularity theory Authored by world experts the various contributions deal with both classical material and modern developments covering a wide range of topics which are linked to each other in fundamental ways Singularities are ubiquitous in mathematics and science in general Singularity theory interacts energetically with the rest of mathematics acting as a crucible where different types of mathematical problems interact surprising connections are born and simple questions lead to ideas which resonate in other parts of the subject This is the first volume in a series which aims to provide an accessible account of the state of the art of the subject its frontiers and its interactions with other areas of research The book is addressed to graduate students and newcomers to the theory as well as to specialists who can use it as a guidebook

*Singularity Theory: Dedicated To Jean-paul Brasselet On His 60th Birthday - Proceedings Of The 2005 Marseille Singularity School And Conference* Jean-paul Brasselet, Denis Cheniot, Nicolas Dutertre, Claudio Murolo, Anne Pichon, David Trotman, 2007-02-08 The Singularity School and Conference took place in Luminy Marseille from January 24th to February 25th 2005 More than 180 mathematicians from over 30 countries converged to discuss recent developments in singularity theory The volume contains the elementary and advanced courses conducted by singularities specialists during the conference general lectures on singularity theory and lectures on applications of the

theory to various domains The subjects range from geometry and topology of singularities through real and complex singularities to applications of singularities

**Algebraic Geometry: Sundance 1988** Brian Harbourne, 1991 This volume contains the proceedings of the NSF CBMS Regional Conference on Algebraic Geometry held in Sundance Utah in July 1988 The conference focused on algebraic curves and related varieties Some of the papers collected here represent lectures delivered at the conference some report on research done during the conference while others describe related work carried out elsewhere

**Enriques Surfaces I** François Cossec, Igor Dolgachev, Christian Liedtke, 2025-05-21 This book consisting of two volumes gives a contemporary account of the study of the class of projective algebraic surfaces known as Enriques surfaces These surfaces were discovered more than 125 years by F Enriques in an attempt to extend the characterization of rational algebraic curves to the case of algebraic surfaces The novel feature of the present exposition is that no assumption on the characteristic of the ground field is assumed This requirement calls for exploring the geometry of such surfaces by purely geometric and arithmetic methods that do not rely on transcendental methods such as the theory of periods of algebraic surfaces of type K3 which are close relatives of Enriques surfaces Some of the methods use many technical tools from algebraic geometry that are discussed in Volume 1 and may be a useful source of references for the study of algebraic surfaces over fields of positive characteristic Volume 1 also contains a detailed exposition of the theory of elliptic surfaces over fields of arbitrary characteristic The first volume is an essential and greatly extended revision of Enriques Surfaces I published in 1989 by Birkhäuser and co authored by F Cossec and I Dolgachev Included is a new chapter devoted to the theory of moduli of Enriques surfaces The two volumes together contain many examples and an extensive bibliography made up of more than 700 items

**Real and Complex Singularities** M. Manoel, M. C. Romero Fuster, C. T. C. Wall, 2010-10-07 The biennial meetings at São Carlos have helped create a worldwide community of experts and young researchers working on singularity theory with a special focus on applications to a wide variety of topics in both pure and applied mathematics The tenth meeting celebrating the 60th birthdays of Terence Gaffney and Maria Aparecida Soares Ruas was a special occasion attracting the best known names in the area This volume contains contributions by the attendees including three articles written or co authored by Gaffney himself and survey articles on the existence of Milnor fibrations global classifications and graphs pairs of foliations on surfaces and Gaffney's work on equisingularity

**Singularities and Computer Algebra** Wolfram Decker, Gerhard Pfister, Mathias Schulze, 2017-03-29 This book arose from a conference on Singularities and Computer Algebra which was held at the Pfalz Akademie Lambrecht in June 2015 in honor of Gert Martin Greuel's 70th birthday This unique volume presents a collection of recent original research by some of the leading figures in singularity theory on a broad range of topics including topological and algebraic aspects classification problems deformation theory and resolution of singularities At the same time the articles highlight a variety of techniques ranging from theoretical methods to practical tools from computer algebra Greuel himself made major contributions to the development of both singularity theory and

computer algebra With Gerhard Pfister and Hans Schenemann he developed the computer algebra system SINGULAR which has since become the computational tool of choice for many singularity theorists The book addresses researchers whose work involves singularity theory and computer algebra from the PhD to expert level



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