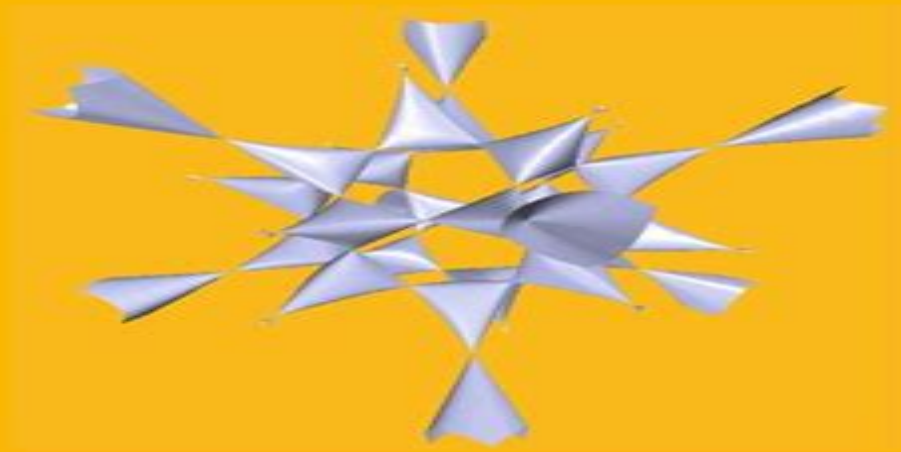


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# Vector Fields on Singular Varieties

1987



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**Handbook of Geometry and Topology of Singularities IV** José Luis Cisneros-Molina, Lê Dũng Tráng, José Seade, 2023-10-07 This is the fourth volume of the Handbook of Geometry and Topology of Singularities, a series that 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 twelve 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 to III. Amongst the topics studied in this volume are the Nash blow-up, the space of arcs in algebraic varieties, determinantal singularities, Lipschitz geometry, indices of vector fields, and 1-forms, motivic characteristic classes, the Hilbert-Samuel multiplicity, and comparison theorems that spring from the classical De Rham complex. Singularities are ubiquitous in mathematics and science in general. Singularity theory is a crucible where different types of mathematical problems interact; surprising connections are born, and simple questions lead to ideas which resonate 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.

**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

**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

Real and Complex Singularities Marcelo José Saia, José Seade, 2008 This book offers a selection of papers based on talks at the Ninth International Workshop on Real and Complex Singularities a series of biennial workshops organized by the Singularity Theory group at Sao Carlos S P Brazil The papers deal with all the different topics in singularity theory and its applications from pure singularity theory related to commutative algebra and algebraic geometry to those topics associated with various aspects of geometry to homotopy theory

**Singularity Theory** Denis Cheniot, Jean-Paul Brasselet, 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

**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

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**Applications** Boju Jiang,1989-11-28 This selection of papers from the Beijing conference gives a cross section of the current  
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research articles on topics including equivariant theory extensions of Nielsen theory periodic orbits of discrete and  
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### **Table of Contents Vector Fields On Singular Varieties Lecture Notes In Mathematics**

1. Understanding the eBook Vector Fields On Singular Varieties Lecture Notes In Mathematics
  - The Rise of Digital Reading Vector Fields On Singular Varieties Lecture Notes In Mathematics
  - Advantages of eBooks Over Traditional Books
2. Identifying Vector Fields On Singular Varieties Lecture Notes In Mathematics
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an eBook Vector Fields On Singular Varieties Lecture Notes In Mathematics
  - User-Friendly Interface
4. Exploring eBook Recommendations from Vector Fields On Singular Varieties Lecture Notes In Mathematics
  - Personalized Recommendations
  - Vector Fields On Singular Varieties Lecture Notes In Mathematics User Reviews and Ratings
  - Vector Fields On Singular Varieties Lecture Notes In Mathematics and Bestseller Lists

5. Accessing Vector Fields On Singular Varieties Lecture Notes In Mathematics Free and Paid eBooks
  - Vector Fields On Singular Varieties Lecture Notes In Mathematics Public Domain eBooks
  - Vector Fields On Singular Varieties Lecture Notes In Mathematics eBook Subscription Services
  - Vector Fields On Singular Varieties Lecture Notes In Mathematics Budget-Friendly Options
6. Navigating Vector Fields On Singular Varieties Lecture Notes In Mathematics eBook Formats
  - ePub, PDF, MOBI, and More
  - Vector Fields On Singular Varieties Lecture Notes In Mathematics Compatibility with Devices
  - Vector Fields On Singular Varieties Lecture Notes In Mathematics Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Vector Fields On Singular Varieties Lecture Notes In Mathematics
  - Highlighting and Note-Taking Vector Fields On Singular Varieties Lecture Notes In Mathematics
  - Interactive Elements Vector Fields On Singular Varieties Lecture Notes In Mathematics
8. Staying Engaged with Vector Fields On Singular Varieties Lecture Notes In Mathematics
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Vector Fields On Singular Varieties Lecture Notes In Mathematics
9. Balancing eBooks and Physical Books Vector Fields On Singular Varieties Lecture Notes In Mathematics
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Vector Fields On Singular Varieties Lecture Notes In Mathematics
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Vector Fields On Singular Varieties Lecture Notes In Mathematics
  - Setting Reading Goals Vector Fields On Singular Varieties Lecture Notes In Mathematics
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Vector Fields On Singular Varieties Lecture Notes In Mathematics
  - Fact-Checking eBook Content of Vector Fields On Singular Varieties Lecture Notes In Mathematics
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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