V.I. Arnold
S.M. Gusein-Zade
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Singularities of Differentiable Maps, Volume 1

Classification of Critical Points,
Caustics and Wave Fronts

Singularities Of Differentiable Maps The Classification Of Critical Points Caustics And Wave Fronts Vol 1

Thomas Griffiths

Singularities Of Differentiable Maps The Classification Of Critical Points Caustics And Wave Fronts Vol 1:
    Singularities of Differentiable Maps Vladimir I. Arnol'd,1985   *Singularities of Differentiable Maps, Volume 1* V.I. Arnold,S.M. Gusein-Zade,Alexander N. Varchenko,2012-05-24 Singularity theory is a far reaching extension of maxima and minima investigations of differentiable functions with implications for many different areas of mathematics engineering catastrophe theory and the theory of bifurcations and science The three parts of this first volume of a two volume set deal with the stability problem for smooth mappings critical points of smooth functions and caustics and wave front singularities The second volume describes the topological and algebro geometrical aspects of the theory monodromy intersection forms oscillatory integrals asymptotics and mixed Hodge structures of singularities The first volume has been adapted for the needs of non mathematicians presupposing a limited mathematical background and beginning at an elementary level With this foundation the book s sophisticated development permits readers to explore more applications than previous books on singularities   Singularities of Differentiable Maps V.I. Arnold,Alexander Varchenko,S.M. Gusein-Zade,1985-01-01 there is nothing so enthralling so grandiose nothing that stuns or captivates the human soul quite so much as a first course in a science After the first five or six lectures one already holds the brightest hopes already sees oneself as a seeker after truth I too have wholeheartedly pursued science passionately as one would a beloved woman I was a slave and sought no other sun in my life Day and night I crammed myself bending my back ruining myself over my books I wept when I beheld others exploiting science fot personal gain But I was not long enthralled The truth is every science has a beginning but never an end they go on for ever like periodic fractions Zoology for example has discovered thirty five thousand forms of life A P Chekhov On the road In this book a start is made to the zoology of the singularities of differentiable maps This theory is a young branch of analysis which currently occupies a central place in mathematics it is the crossroads of paths leading from very abstract corners of mathematics such as algebraic and differential geometry and topology Lie groups and algebras complex manifolds commutative algebra and the like to the most applied areas such as differential equations and dynamical systems optimal control the theory of bifurcations and catastrophes short wave and saddle point asymptotics and geometrical and wave optics   **Singularities of Differentiable Maps - Vol. I: the Classification of Critical Points Caustics and Wave Fronts** Vladimir Igorevic Arnold,1985   **Handbook of Geometry and Topology of Singularities VII** José Luis Cisneros-Molina,Lê Dũng Tráng,José Seade,2025-03-01 This is the seventh 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 fourteen chapters that provide an in depth and reader friendly introduction to various important aspects of singularity theory The volume begins with an outstanding exposition on Jim Damon s contributions to singularity theory and its applications Jim passed away in 2022 and he was one of the greatest mathematicians of recent times having made remarkable contributions to singularity theory and its applications

mostly to medical image computing The next chapter focuses on the singularities of real functions and their bifurcation sets Then we look at the perturbation theory of polynomials and linear operators complex analytic frontal singularities the global singularity theory of differentiable maps and the singularities of holomorphic functions from a global point of view The volume continues with an overview of new tools in singularity theory that spring from symplectic geometry and Floer type homology theories Then it looks at the derivation of Lie algebras of isolated singularities and the three dimensional rational isolated complete intersection singularities as well as recent developments in algebraic K stability and the stable degeneration conjecture This volume also contains an interesting survey on V filtrations a theory began by Malgrange and Kashiwara that can be used to study nearby and vanishing cycle functors and introduced by Deligne Then we present a panoramic view of the Hodge toric and motivic methods in the study of Milnor fibers in singularity theory both from local and global points of view The Monodromy conjecture is also explained this is a longstanding open problem in singularity theory that lies at the crossroads of number theory algebra analysis geometry and topology This volume closes with recent developments in the study of the algebraic complexity of optimization problems in applied algebraic geometry and algebraic statistics 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, Algebraic Geometry, Commutative Algebra, and Related Topics* Gert-Martin Greuel,Luis Narváez Macarro,Sebastià Xambó-Descamps,2018-09-18 This volume brings together recent original research and survey articles by leading experts in several fields that include singularity theory algebraic geometry and commutative algebra The motivation for this collection comes from the wide ranging research of the distinguished mathematician Antonio Campillo in these and related fields Besides his influence in the mathematical community stemming from his research Campillo has also endeavored to promote mathematics and mathematicians networking everywhere especially in Spain Latin America and Europe Because of his impressive achievements throughout his career we dedicate this book to Campillo in honor of his 65th birthday Researchers and students from the world wide and in particular Latin American and European communities in singularities algebraic geometry commutative algebra coding theory and other fields covered in the volume will have interest in this book   **Differential Geometry from a Singularity Theory Viewpoint** Shyuichi E. T. Al IZUMIYA,2015-10-29 Differential Geometry from a Singularity Theory Viewpoint provides a new look at the fascinating and classical subject of the differential geometry of surfaces in Euclidean spaces The book uses singularity theory to capture some key geometric features of surfaces It describes the theory of contact and its link with the theory of caustics and wavefronts It then uses the powerful techniques of these theories to deduce geometric information about surfaces embedded in 3 4 and 5 dimensional Euclidean spaces The book also includes recent work of the authors and their collaborators on the geometry of sub manifolds in Minkowski spaces   *Lectures on Analytic Differential Equations* I︠U︡. S. Il′i︠a︡shenko,S. Yakovenko,2008 The book combines the features of a graduate level textbook with those of a research monograph and survey of the recent results on

analysis and geometry of differential equations in the real and complex domain As a graduate textbook it includes self contained sometimes considerably simplified demonstrations of several fundamental results which previously appeared only in journal publications desingularization of planar analytic vector fields existence of analytic separatrices positive and negative results on the Riemann Hilbert problem Ecalle Voronin and Martinet Ramis moduli solution of the Poincare problem on the degree of an algebraic separatrix etc As a research monograph it explores in a systematic way the algebraic decidability of local classification problems rigidity of holomorphic foliations etc Each section ends with a collection of problems partly intended to help the reader to gain understanding and experience with the material partly drafting demonstrations of the mor The exposition of the book is mostly geometric though the algebraic side of the constructions is also prominently featured on several occasions the reader is introduced to adjacent areas such as intersection theory for divisors on the projective plane or geometric theory of holomorphic vector bundles with meromorphic connections The book provides the reader with the principal tools of the modern theory of analytic differential equations and intends to serve as a standard source for references in this area   Applied Picard-Lefschetz Theory V. A. Vasilʹev,2002 Many important functions of mathematical physics are defined as integrals depending on parameters The Picard Lefschetz theory studies how analytic and qualitative properties of such integrals regularity algebraicity ramification singular points etc depend on the monodromy of corresponding integration cycles In this book V A Vassiliev presents several versions of the Picard Lefschetz theory including the classical local monodromy theory of singularities and completeintersections Pham s generalized Picard Lefschetz formulas stratified Picard Lefschetz theory and also twisted versions of all these theories with applications to integrals of multivalued forms The author also shows how these versions of the Picard Lefschetz theory are used in studying a variety ofproblems arising in many areas of mathematics and mathematical physics In particular he discusses the following classes of functions volume functions arising in the Archimedes Newton problem of integrable bodies Newton Coulomb potentials fundamental solutions of hyperbolic partial differential equations multidimensional hypergeometric functions generalizing the classical Gauss hypergeometric integral The book is geared toward a broad audience of graduate students research mathematiciansand mathematical physicists interested in algebraic geometry complex analysis singularity theory asymptotic methods potential theory and hyperbolic operators   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   New Trends in Sub-Riemannian Geometry Fabrice Baudoin,Luca Rizzi,2025-01-27 This volume contains the proceedings of the AMS EMS SMF Special Session on Sub Riemannian Geometry and Interactions held from July 18 20 2022 at the Universit de Grenoble Alpes Grenoble France Sub Riemannian geometry is a generalization of Riemannian one where a smooth metric is defined only on a preferred subset of tangent directions Under the so called H rmander condition all points are connected by finite length curves giving rise to a well defined metric space Sub Riemannian geometry is nowadays a lively branch of mathematics connected with probability harmonic and complex analysis subelliptic PDEs geometric measure theory optimal transport calculus of variations and potential analysis The articles in this volume present some developments of a broad range of topics in sub Riemannian geometry including the theory of sub elliptic operators holonomy spectral theory and the geometry of the exponential map   **Elemente der Mathematik** ,1989 Elemente der Mathematik EL publishes survey articles about important developments in the field of mathematics stimulating shorter communications that tackle more specialized questions and papers that report on the latest advances in mathematics and applications in other disciplines The journal does not focus on basic research Rather its articles seek to convey to a wide circle of readers teachers students engineers professionals in industry and administration the relevance intellectual challenge and vitality of mathematics today The Problems Section covering a diverse range of exercises of varying degrees of difficulty encourages an active grappling with mathematical problems   **Analysis and Singularities** V. M. Zakalyukin,A. A. Davydov,2007   **Singularities of Differentiable Maps** V.I. Arnold,A.N. Varchenko,S.M. Gusein-Zade,2012-12-06 The present volume is the second volume of the book Singularities of Differentiable Maps by V 1 Arnold A N Varchenko and S M Gusein Zade The first volume subtitled Classification of critical points caustics and wave fronts was published by Moscow Nauka in 1982 It will be referred to in this text simply as Volume 1 Whilst the first volume contained the zoology of differentiable maps that is it was devoted to a description of what where and how singularities could be encountered this volume contains the elements of the anatomy and physiology of singularities of differentiable functions This means that the questions considered in it are about the structure of singularities and how they function Another distinctive feature of the present volume is that we take a hard look at questions for which it is important to work in the complex domain where the first volume was devoted to themes for which on the whole it was not important which field real or complex we were considering Such topics as for example decomposition of singularities the connection between singularities and Lie algebras and the asymptotic behaviour of different integrals depending on parameters become clearer in the complex domain The book consists of three parts In the first part we consider the topological structure of isolated critical points of holomorphic

functions We describe the fundamental topological characteristics of such critical points vanishing cycles distinguished bases intersection matrices monodromy groups the variation operator and their interconnections and method of calculation

Singularities of Differentiable Maps Vladimir Igorevich Arnolʹd,Sabir Medzhidovich Guseĭn-Zade,Aleksandr Nikolaevich Varchenko,1988   **Russian Journal of Mathematical Physics** ,2003   Geometry and Topology of Caustics -- Caustics ... ,2006   **Deutsche Bibliographie** ,1989   **Journal of the Mathematical Society of Japan** Nihon Sūgakkai,2000   *St. Petersburg Mathematical Journal* ,2003

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