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in Mathematics

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**Singularities of
Differentiable Maps
Volume II**



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Singularities Of Differentiable Maps Vol 2 Monodromy And Asymptotic Integrals

**Vladimir Igorevich Arnol'd, Vladimir I.
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Singularities Of Differentiable Maps Vol 2 Monodromy And Asymptotic Integrals:

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 I 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, Volume 2 Elionora Arnold, S.M. Gusein-Zade, Alexander N. Varchenko, 2012-05-16 The present volume is the second in a two volume set entitled *Singularities of Differentiable Maps* While the first volume subtitled *Classification of Critical Points* and originally published as Volume 82 in the *Monographs in Mathematics* series contained the zoology of differentiable maps that is it was devoted to a description of what where and how singularities could be encountered this second volume concentrates on elements of the anatomy and physiology of singularities of differentiable functions The questions considered are about the structure of singularities and how they function

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Singularities of Differentiable Maps V.I. Arnold, A.N. Varchenko, S.M. Gusein-Zade, 2012-12-06 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 for 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

Mathematical Methods in Liquid Crystal Optics and Lens Design Eric Stachura, 2024-08-20 Freeform lens design has numerous applications in imaging aerospace and biomedicine Due to recent advancements in precision cutting and grinding the manufacturing of freeform optical lenses with very high precision is now possible However there is still a significant lack of mathematical literature on the subject and essentially none related to liquid crystals Liquid crystals are appealing for use in imaging due to their flexibility and unique electro optical properties This book fills a gap in mathematical literature and attracts focus to liquid crystals for freeform lens design It provides a rigorous mathematical perspective on liquid crystal optics focusing on ray tracing in the geometric optics regime A mathematical foundation is set to study lens design and ray tracing problems in liquid crystals Additionally it addresses absolute instruments which are devices that image without any optical aberrations These instruments cannot be designed through transformation optics and until recently only a handful of examples were known Mathematically this is a largely untapped area of research yet the applications are profound Finally the book describes several open directions revealing the richness of the intersection of liquid crystal optics and mathematical analysis The content of this book will prove invaluable for researchers of mathematical optics as well as those interested in liquid crystal theory in addition to those mathematics graduate students aiming to understand the physical basis of light propagation in liquid crystals *Ludwig Faddeev Memorial Volume: A Life In Mathematical Physics* Mo-lin Ge, Antti

Niemi, Kok Khoo Phua, Leon A Takhtajan, 2018-05-21 Ludwig Faddeev is widely recognized as one of the titans of 20th century mathematical physics His fundamental contributions to scattering theory quantum gauge theories and the theory of classical and quantum completely integrable systems played a key role in shaping modern mathematical physics Ludwig Faddeev's major achievements include the solution of the three body problem in quantum mechanics the mathematical formulation of quantum gauge theories and corresponding Feynman rules Hamiltonian and algebraic methods in mathematical physics with applications to gauge theories with anomalies quantum systems with constraints and solitons the discovery of the algebraic structure of classical and quantum integrable systems and quantum groups and solitons with the topology of knots Faddeev's

name is imprinted in many areas of mathematics and theoretical physics including Faddeev's equations and Faddeev's Green function in scattering theory Faddeev-Popov ghosts and Faddeev-Popov determinant in gauge theories Gardner-Faddeev-Zakharov bracket for the KdV equation Faddeev-Zamolodchikov algebra in quantum integrable systems Faddeev-Reshetikhin-Takhtajan construction in the theory of quantum groups knotted solitons in the Skyrme-Faddeev model and many others Ludwig Faddeev founded the St Petersburg school of modern mathematical physics and distinguished himself by serving the mathematics community for over three decades including his leadership of the International Mathematical Union in the period of 1986-1990 He was conferred numerous prizes and memberships of prestigious institutions in recognition of the importance of his work These include the Dannie Heineman Prize for Mathematical Physics the Dirac Medal the Max Planck Medal the Shaw Prize and the Lomonosov Gold Medal among others A gathering of contributions from some of the biggest names in mathematics and physics this volume serves as a tribute to this legendary figure Volume contributors include Fields medalist Sir Michael Atiyah Jürgen Fröhlich Roman Jackiw Vladimir Korepin Nikita Nekrasov Andrzej Neveu Alexander M Polyakov Samson Shatashvili Fedor Smirnov as well as Nobel laureates Frank Wilczek and C N Yang [p-Adic Analysis, Arithmetic and Singularities](#) Carlos Galindo, Alejandro Melle Hernández, Julio José Moyano-Fernández, Wilson A.

Zúñiga-Galindo, 2022-05-11 This volume contains the proceedings of the 2019 Luis A Santal Summer School on p-Adic Analysis Arithmetic and Singularities which was held from June 24-28 2019 at the Universidad Internacional Menéndez Pelayo Santander Spain The main purpose of the book is to present and analyze different incarnations of the local zeta functions and their multiple connections in mathematics and theoretical physics Local zeta functions are ubiquitous objects in mathematics and theoretical physics At the mathematical level local zeta functions contain geometry and arithmetic information about the set of zeros defined by a finite number of polynomials In terms of applications in theoretical physics these functions play a central role in the regularization of Feynman amplitudes and Koba-Nielsen type string amplitudes among other applications This volume provides a gentle introduction to a very active area of research that lies at the intersection of number theory p-adic analysis algebraic geometry singularity theory and theoretical physics Specifically the book introduces p-adic analysis the theory of Archimedean p-adic and motivic zeta functions singularities of plane curves and their Poincaré series among other similar topics It also contains original contributions in the aforementioned areas written by renowned specialists This book is an important reference for students and experts who want to delve quickly into the area of local zeta functions and their many connections in mathematics and theoretical physics **NIST Handbook of**

Mathematical Functions Hardback and CD-ROM Frank W. J. Olver, 2010-05-17 The new standard reference on mathematical functions replacing the classic but outdated handbook from Abramowitz and Stegun Includes PDF version

Computer Algebra in Scientific Computing V.G. Ganzha, E.W. Mayr, E.V. Vorozhtsov, 2006-09-12 This book constitutes the refereed proceedings of the 9th International Workshop on Computer Algebra in Scientific Computing CASC 2006 The

book presents 25 revised full papers together with 2 invited papers covering various expanding applications of computer algebra to scientific computing the computer algebra systems themselves and the CA algorithms Topics addressed are studies in Gr bner bases polynomial algebra homological algebra quantifier elimination celestial mechanics and more

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 Partial Differential Equations II Yu.V. Egorov,A.I. Komech,M.A. Shubin,2013-12-01 This book the first printing of which was published as Volume 31 of the Encyclopaedia of Mathematical Sciences contains a survey of the modern theory of general linear partial differential equations and a detailed review of equations with constant coefficients Readers will be interested in an introduction to microlocal analysis and its applications including singular integral operators pseudodifferential operators Fourier integral operators and wavefronts a survey of the most important results about the mixed problem for hyperbolic equations a review of asymptotic methods including short wave asymptotics the Maslov canonical operator and spectral asymptotics a detailed description of the applications of distribution theory to partial differential equations with constant coefficients including numerous interesting special topics **Algorithmic Probability and Combinatorics** Manuel Lladser,2010-07-30 This volume contains the proceedings of the AMS Special Sessions on Algorithmic Probability and Combinatorics held at DePaul University on October 5 6 2007 and at the University of British Columbia on October 4 5 2008 This volume collects cutting edge research and expository on algorithmic probability and combinatorics It includes contributions by well established experts and younger researchers who use generating functions algebraic and probabilistic methods as well as asymptotic analysis on a daily basis Walks in the quarter plane and random walks quantum rotor and self avoiding permutation tableaux and random permutations are considered In addition articles in the volume present a variety of saddle point and geometric methods for the asymptotic analysis of the coefficients of single and multivariable generating functions associated with combinatorial objects and discrete random structures The volume should appeal to pure and applied mathematicians as well as mathematical physicists in particular anyone interested in computational aspects of probability combinatorics and enumeration Furthermore the expository or partly expository papers included in this volume should serve as an entry point to

this literature not only to experts in other areas but also to graduate students *Reviews in Global Analysis, 1980-86 as Printed in Mathematical Reviews* ,1988 *Reviews in Complex Analysis, 1980-86* ,1989 **Fewnomials** A. G. Khovanskiĭ, The ideology of the theory of fewnomials is the following real varieties defined by simple not cumbersome systems of equations should have a simple topology One of the results of the theory is a real transcendental analogue of the Bezout theorem for a large class of systems of k transcendental equations in k real variables the number of roots is finite and can be explicitly estimated from above via the complexity of the system A more general result is the construction of a category of real transcendental manifolds that resemble algebraic varieties in their properties These results give new information on level sets of elementary functions and even on algebraic equations The topology of geometric objects given via algebraic equations real algebraic curves surfaces singularities etc quickly becomes more complicated as the degree of the equations increases It turns out that the complexity of the topology depends not on the degree of the equations but only on the number of monomials appearing in them This book provides a number of theorems estimating the complexity of the topology of geometric objects via the cumbersomeness of the defining equations In addition the author presents a version of the theory of fewnomials based on the model of a dynamical system in the plane Pfaff equations and Pfaff manifolds are also studied

Sbornik ,1993 Mathematical Reviews ,2001 International Books in Print, 1995 Barbara Hopkinson,[Anonymus AC01401231],1995 Singularities of Differentiable Maps Vladimir Igorevich Arnol'd,Vladimir I. Arnol'd,1988

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