

**Mathematics and Its Applications**

**V.A. Vassiliev**

**Ramified Integrals,  
Singularities  
and Lacunas**



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# Ramified Integrals Singularities And Lacunas

**Corneliu Constantinescu, Wolfgang  
Filter, Karl Weber**



## **Ramified Integrals Singularities And Lacunas:**

*Ramified Integrals, Singularities and Lacunas* V.A. Vassiliev, 2012-10-13 Many special functions occurring in physics and partial differential equations can be represented by integral transformations the fundamental solutions of many PDEs Newton Coulomb potentials hypergeometric functions Feynman integrals initial data of inverse tomography problems etc The general picture of such transformations is as follows There is an analytic fibre bundle  $E \rightarrow T$  a differential form  $w$  on  $E$  whose restrictions on the fibres are closed and a family of cycles in these fibres parametrized by the points of  $T$  and depending continuously on these points Then the integral of the form  $w$  along these cycles is a function on the base The analytic properties of such functions depend on the monodromy action i.e. on the natural action of the fundamental group of the base in the homology of the fibre this action on the integration cycles defines the ramification of the analytic continuation of our function The study of this action which is a purely topological problem can answer questions about the analytic behaviour of the integral function for instance is this function single valued or at least algebraic what are the singular points of this function and what is its asymptotics close to these points In this book we study such analytic properties of three famous classes of functions the volume functions which appear in the Archimedes Newton problem on integrable bodies the Newton Coulomb potentials and the Green functions of hyperbolic equations studied in particular in the Hada mard Petrovskii Atiyah Bott Garding lacuna theory

*Ramified Integrals, Singularities and Lacunas* V.A. Vassiliev, 2012-12-06 Solutions to many problems of these theories are treated Subjects include the proof of multidimensional analogues of Newton's theorem on the nonintegrability of ovals extension of the proofs for the theorems of Newton Ivory Arnold and Givental on potentials of algebraic surfaces Also it is discovered for which  $d$  and  $n$  the potentials of degree  $d$  hyperbolic surfaces in actual symbol not reproducible are algebraic outside the surfaces the equivalence of local regularity the so called sharpness of fundamental solutions of hyperbolic PDEs and the topological Petrovskii Atiyah Bott Garding condition is proved and the geometrical characterization of domains of sharpness close to simple singularities of wave fronts is considered a stratified version of the Picard Lefschetz formula is proved and an algorithm enumerating topologically distinct Morsifications of real function singularities is given

**Singularities** Vladimir I. Arnold, Gert-Martin Greuel, Joseph H.M. Steenbrink, 2012-12-06 In July 1996 a conference was organized by the editors of this volume at the Mathematisches Forschungsinstitut Oberwolfach to honour Egbert Brieskorn on the occasion of his 60th birthday Most of the mathematicians invited to the conference have been influenced in one way or another by Brieskorn's work in singularity theory It was the first time that so many people from the Russian school could be present at a conference in singularity theory outside Russia This volume contains papers on singularity theory and its applications written by participants of the conference In many cases they are extended versions of the talks presented there The diversity of subjects of the contributions reflects singularity theory's relevance to topology analysis and geometry combining ideas and techniques from all of these fields as well as demonstrating the breadth of

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**Trends in Singularities** Anatoly Libgober, Mihai Tibar, 2012-12-06 The collection of papers in this volume represents recent advances in the understanding of the geometry and topology of singularities The book covers a broad range of topics which are in the focus of contemporary singularity theory Its idea emerged during two Singularities workshops held at the University of Lille USTL in 1999 and 2000 Due to the breadth of singularity theory a single volume can hardly give the complete picture of today's progress

Nevertheless this collection of papers provides a good snapshot of what is the state of affairs in the field at the turn of the century Several papers deal with global aspects of singularity theory Classification of families of plane curves with prescribed singularities were among the first problems in algebraic geometry Classification of plane cubics was known to Newton and classification of quartics was achieved by Klein at the end of the 19th century The problem of classification of curves of higher degrees was addressed in numerous works after that In the paper by Artal Carmona and Cogolludo the authors describe irreducible sextic curves having a singular point of type  $An_{15}$  and a large  $Le_{18}$  sum of Milnor numbers of other singularities They have discovered many interesting properties of these families In particular they have found new examples of so called Zariski pairs i e

Singularities in Geometry and Topology Jean-Paul Brasselet, 2007 Singularity theory appears in numerous branches of mathematics as well as in many emerging areas such as robotics control theory imaging and various evolving areas in physics The purpose of this proceedings volume is to cover recent developments in singularity theory and to introduce young researchers from developing countries to singularities in geometry and topology The contributions discuss singularities in both complex and real geometry As such they provide a natural continuation of the previous school on singularities held at ICTP 1991 which is recognized as having had a major influence in the field

**Introduction to Complex Theory of Differential Equations** Anton Savin, Boris Sternin, 2017-03-28 This book discusses the complex theory of differential equations or more precisely the theory of differential equations on complex analytic manifolds Although the theory of differential equations on real manifolds is well known it is described in thousands of papers and its usefulness requires no comments or explanations to date specialists on differential equations have not focused on the complex theory of partial differential equations However as well as being remarkably beautiful this theory can be used to solve a number of problems in real theory for instance the Poincaré balayage problem and the mother body problem in geophysics The monograph does not require readers to be familiar with advanced notions in complex analysis differential equations or topology With its numerous examples and exercises it appeals to advanced undergraduate and graduate students and also to researchers wanting to familiarize themselves with the subject

**Applied Picard-Lefschetz**

**Theory** V. A. Vasil'ev, 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 complete intersections 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 of problems 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 mathematicians and mathematical physicists interested in algebraic geometry complex analysis singularity theory asymptotic methods potential theory and hyperbolic operators

**Nonlinear Integral Equations in Abstract Spaces** Dajun Guo, V. Lakshmikantham, Xinzhi Liu, 2013-11-22 Many problems arising in the physical sciences engineering biology and applied mathematics lead to mathematical models described by nonlinear integral equations in abstract spaces The theory of nonlinear integral equations in abstract spaces is a fast growing field with important applications to a number of areas of analysis as well as other branches of science This book is devoted to a comprehensive treatment of nonlinear integral equations in abstract spaces It is the first book that is dedicated to a systematic development of this subject and it includes the developments during recent years Chapter 1 introduces some basic results in analysis which will be used in later chapters Chapter 2 which is a main portion of this book deals with nonlinear integral equations in Banach spaces including equations of Fredholm type of Volterra type and equations of Hammerstein type Some applications to nonlinear differential equations in Banach spaces are given We also discuss an integral equation modelling infectious disease as a typical application In Chapter 3 we investigate the first order and second order nonlinear integro differential equations in Banach spaces including equations of Volterra type and equations of mixed type Chapter 4 is devoted to nonlinear impulsive integral equations in Banach spaces and their applications to nonlinear impulsive differential equations in Banach spaces

**Integral Transformations, Operational Calculus, and Generalized Functions** R.G. Buschman, 2013-11-27 It is not the object of the author to present comprehensive coverage of any particular integral transformation or of any particular development of generalized functions for there are books available in which this is done Rather this consists more of an introductory survey in which various ideas are explored The Laplace transformation is taken as the model type of an integral transformation and a number of its properties are developed later the Fourier transformation is introduced The operational calculus of Mikusinski is presented as a method of introducing generalized

functions associated with the Laplace transformation The construction is analogous to the construction of the rational numbers from the integers Further on generalized functions associated with the problem of extension of the Fourier transformation are introduced This construction is analogous to the construction of the reals from the rationals by means of Cauchy sequences A chapter with sections on a variety of transformations is adjoined Necessary levels of sophistication start low in the first chapter but they grow considerably in some sections of later chapters Background needs are stated at the beginnings of each chapter Many theorems are given without proofs which seems appropriate for the goals in mind A selection of references is included Without showing many of the details of rigor it is hoped that a strong indication is given that a firm mathematical foundation does actually exist for such entities as the Dirac delta function

Existence Theory for Nonlinear Integral and Integrodifferential Equations Donal O'Regan, Maria Meehan, 2012-12-06 The theory of integral and integrodifferential equations has advanced rapidly over the last twenty years Of course the question of existence is an age old problem of major importance This monograph is a collection of some of the most advanced results to date in this field The book is organized as follows It is divided into twelve chapters Each chapter surveys a major area of research Specifically some of the areas considered are Fredholm and Volterra integral and integrodifferential equations resonant and nonresonant problems in integral inclusions stochastic equations and periodic problems We note that the selected topics reflect the particular interests of the authors Donal O'Regan Maria Meehan

CHAPTER 1 INTRODUCTION AND PRELIMINARIES 1 1 Introduction The aim of this book is firstly to provide a comprehensive existence theory for integral and integrodifferential equations and secondly to present some specialised topics in integral equations which we hope will inspire further research in the area To this end the first part of the book deals with existence principles and results for nonlinear Fredholm and Volterra integral and integrodifferential equations on compact and half open intervals while selected topics which reflect the particular interests of the authors such as nonresonance and resonance problems equations in Banach spaces inclusions and stochastic equations are presented in the latter part

*Extremal Polynomials and Riemann Surfaces* Andrei Bogatyrev, 2012-05-31 The problems of conditional optimization of the uniform or  $C$  norm for polynomials and rational functions arise in various branches of science and technology Their numerical solution is notoriously difficult in case of high degree functions The book develops the classical Chebyshev's approach which gives analytical representation for the solution in terms of Riemann surfaces The techniques born in the remote at the first glance branches of mathematics such as complex analysis Riemann surfaces and Teichmüller theory foliations braids topology are applied to approximation problems The key feature of this book is the usage of beautiful ideas of contemporary mathematics for the solution of applied problems and their effective numerical realization This is one of the few books where the computational aspects of the higher genus Riemann surfaces are illuminated Effective work with the moduli spaces of algebraic curves provides wide opportunities for numerical experiments in mathematics and theoretical physics

**Advanced Integration Theory** Corneliu

Constantinescu, Wolfgang Filter, Karl Weber, 2012-12-06 Since about 1915 integration theory has consisted of two separate branches the abstract theory required by probabilists and the theory preferred by analysts that combines integration and topology As long as the underlying topological space is reasonably nice e g locally compact with countable basis the abstract theory and the topological theory yield the same results but for more complicated spaces the topological theory gives stronger results than those provided by the abstract theory The possibility of resolving this split fascinated us and it was one of the reasons for writing this book The unification of the abstract theory and the topological theory is achieved by using new definitions in the abstract theory The integral in this book is defined in such a way that it coincides in the case of Radon measures on Hausdorff spaces with the usual definition in the literature As a consequence our integral can differ in the classical case Our integral however is more inclusive It was defined in the book C Constantinescu and K Weber in collaboration with A

**Integration on Infinite-Dimensional Surfaces and Its Applications** A. V. Uglov, 2000-01-31

This book presents the theory of integration over surfaces in abstract topological vector space Applications of the theory in different fields such as infinite dimensional distributions and differential equations including boundary value problems stochastic processes approximation of functions and calculus of variation on a Banach space are treated in detail Audience This book will be of interest to specialists in functional analysis and those whose work involves measure and integration probability theory and stochastic processes partial differential equations and mathematical physics

**Proceedings of the International Congress of Mathematicians** S.D. Chatterji, 2012-12-06 Since the first ICM was held in Zurich in 1897 it has become the pinnacle of mathematical gatherings It aims at giving an overview of the current state of different branches of mathematics and its applications as well as an insight into the treatment of special problems of exceptional importance The proceedings of the ICMs have provided a rich chronology of mathematical development in all its branches and a unique documentation of contemporary research They form an indispensable part of every mathematical library The Proceedings of the International Congress of Mathematicians 1994 held in Zurich from August 3rd to 11th 1994 are published in two volumes Volume I contains an account of the organization of the Congress the list of ordinary members the reports on the work of the Fields Medalists and the Nevanlinna Prize Winner the plenary one hour addresses and the invited addresses presented at Section Meetings 1-6 Volume II contains the invited address for Section Meetings 7-19 A complete author index is included in both volumes the content of these impressive two volumes sheds a certain light on the present state of mathematical sciences and anybody doing research in mathematics should look carefully at these Proceedings For young people beginning research this is even more important so these are a must for any serious mathematics library The graphical presentation is as always with Birkhäuser excellent Revue Roumaine de Mathématiques pures et Appliquées

**Handbook of Global Analysis**

Demeter Krupka, David Saunders, 2011-08-11 This is a comprehensive exposition of topics covered by the American Mathematical Society's classification Global Analysis dealing with modern developments in calculus expressed using abstract

terminology It will be invaluable for graduate students and researchers embarking on advanced studies in mathematics and mathematical physics This book provides a comprehensive coverage of modern global analysis and geometrical mathematical physics dealing with topics such as structures on manifolds pseudogroups Lie groupoids and global Finsler geometry the topology of manifolds and differentiable mappings differential equations including ODEs differential systems and distributions and spectral theory variational theory on manifolds with applications to physics function spaces on manifolds jets natural bundles and generalizations and non commutative geometry Comprehensive coverage of modern global analysis and geometrical mathematical physics Written by world experts in the field Up to date contents

*Representation of Lie Groups and Special Functions* N.Ja. Vilenkin,A.U. Klimyk,2013-04-17 In 1991 1993 our three volume book Representation of Lie Groups and Special Functions was published When we started to write that book in 1983 editors of Kluwer Academic Publishers expressed their wish for the book to be of encyclopaedic type on the subject Interrelations between representations of Lie groups and special functions are very wide This width can be explained by existence of different types of Lie groups and by richness of the theory of their representations This is why the book mentioned above spread to three big volumes Influence of representations of Lie groups and Lie algebras upon the theory of special functions is lasting This theory is developing further and methods of the representation theory are of great importance in this development When the book Representation of Lie Groups and Special Functions vol 1 3 was under preparation new directions of the theory of special functions connected with group representations appeared New important results were discovered in the traditional directions This impelled us to write a continuation of our three volume book on relationship between representations and special functions The result of our further work is the present book The three volume book published before was devoted mainly to studying classical special functions and orthogonal polynomials by means of matrix elements Clebsch Gordan and Racah coefficients of group representations and to generalizations of classical special functions that were dictated by matrix elements of representations

**Spectral Properties of Noncommuting Operators** Brian Jefferies,2004-05-13 Forming functions of operators is a basic task of many areas of linear analysis and quantum physics Weyl's functional calculus initially applied to the position and momentum operators of quantum mechanics also makes sense for finite systems of selfadjoint operators By using the Cauchy integral formula available from Clifford analysis the book examines how functions of a finite collection of operators can be formed when the Weyl calculus is not defined The technique is applied to the determination of the support of the fundamental solution of a symmetric hyperbolic system of partial differential equations and to proving the boundedness of the Cauchy integral operator on a Lipschitz surface

**Superanalysis** Andrei Y. Khrennikov,2012-12-06 defined as elements of Grassmann algebra an algebra with anticommuting generators The derivatives of these elements with respect to anticommuting generators were defined according to algebraic laws and nothing like Newton's analysis arose when Martin's approach was used Later during the next twenty years the algebraic apparatus developed by Martin was used



in all mathematical works We must point out here the considerable contribution made by F A Berezin G 1 Kac D A Leites B Kostant In their works they constructed a new division of mathematics which can naturally be called an algebraic superanalysis Following the example of physicists researchers called the investigations carried out with the use of commuting and anticommuting coordinates supermathematics all mathematical objects that appeared in supermathematics were called superobjects although of course there is nothing super in supermathematics However despite the great achievements in algebraic superanalysis this formalism could not be regarded as a generalization to the case of commuting and anticommuting variables from the ordinary Newton analysis What is more Schwinger's formalism was still used in practically all physical works on an intuitive level and physicists regarded functions of anticommuting variables as real functions maps of sets and not as elements of Grassmann algebras In 1974 Salam and Strathdee proposed a very apt name for a set of super points They called this set a superspace Boolean Valued Analysis A. G. Kusraev, Samson Semenovich Kutateladze, 1999 Boolean valued analysis is a technique for studying properties of an arbitrary mathematical object by comparing its representations in two different set theoretic models whose construction utilises principally distinct Boolean algebras The use of two models for studying a single object is a characteristic of the so called non standard methods of analysis Application of Boolean valued models to problems of analysis rests ultimately on the procedures of ascending and descending the two natural functors acting between a new Boolean valued universe and the von Neumann universe

Arnold's Problems Vladimir I. Arnold, 2004-06-24 Vladimir Arnold is one of the most outstanding mathematicians of our time Many of these problems are at the front line of current research

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### Ramified Integrals Singularities And Lacunas Introduction

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