

# CONTEMPORARY MATHEMATICS

## Regular Differential Forms

Ernst Kunz and Rolf Waldi

AMERICAN MATHEMATICAL SOCIETY **VOLUME 79**

# Regular Differential Forms Contemporary Mathematics

## Vol 79

**Éric Charpentier, Etienne Ghys, Annick  
Lesne**



## **Regular Differential Forms Contemporary Mathematics Vol 79:**

**Regular Differential Forms** Ernst Kunz, Rolf Waldi, 1988 Suitable for students and researchers in commutative algebra algebraic geometry and neighboring disciplines this book introduces various sheaves of differential forms for equidimensional morphisms of finite type between noetherian schemes the most important being the sheaf of regular differential forms

**Multidimensional Residue Theory and Applications** Alekos Vidras, Alain Yger, 2023-10-18 Residue theory is an active area of complex analysis with connections and applications to fields as diverse as partial differential and integral equations computer algebra arithmetic or diophantine geometry and mathematical physics Multidimensional Residue Theory and Applications defines and studies multidimensional residues via analytic continuation for holomorphic bundle valued current maps This point of view offers versatility and flexibility to the tools and constructions proposed allowing these residues to be defined and studied outside the classical case of complete intersection The book goes on to show how these residues are algebraic in nature and how they relate and apply to a wide range of situations most notably to membership problems such as the Briançon-Skoda theorem and Hilbert's Nullstellensatz to arithmetic intersection theory and to tropical geometry This book will supersede the existing literature in this area which dates back more than three decades It will be appreciated by mathematicians and graduate students in multivariate complex analysis But thanks to the gentle treatment of the one dimensional case in Chapter 1 and the rich background material in the appendices it may also be read by specialists in arithmetic diophantine or tropical geometry as well as in mathematical physics or computer algebra

**Notices of the American Mathematical Society** American Mathematical Society, 1992

**Commutative Algebra** David Eisenbud, 2013-12-01 Commutative Algebra is best understood with knowledge of the geometric ideas that have played a great role in its formation in short with a view towards algebraic geometry The author presents a comprehensive view of commutative algebra from basics such as localization and primary decomposition through dimension theory differentials homological methods free resolutions and duality emphasizing the origins of the ideas and their connections with other parts of mathematics Many exercises illustrate and sharpen the theory and extended exercises give the reader an active part in complementing the material presented in the text One novel feature is a chapter devoted to a quick but thorough treatment of Gröbner basis theory and the constructive methods in commutative algebra and algebraic geometry that flow from it Applications of the theory and even suggestions for computer algebra projects are included This book will appeal to readers from beginners to advanced students of commutative algebra or algebraic geometry To help beginners the essential ideals from algebraic geometry are treated from scratch Appendices on homological algebra multilinear algebra and several other useful topics help to make the book relatively self contained Novel results and presentations are scattered throughout the text

**Contemporary Trends in Algebraic Geometry and Algebraic Topology** Shiing-Shen Chern, Lei Fu, Richard Martin Hain, 2002 The Wei Liang Chow and Kuo Tsai Chen Memorial Conference was proposed and held by Prof S S Chern in

Nankai Institute of Mathematics It was devoted to memorializing those two outstanding and original Chinese mathematicians who had made significant contributions to algebraic geometry and algebraic topology respectively It also provided a forum for leading mathematicians to expound and discuss their views on new ideas in these fields as well as trends in 21st Century mathematics About 100 mathematicians participated in the conference including Sir Michael Atiyah Jacob Palis Phillip Griffiths David Eisenbud Philippe Tondeur Yujiro Kawamata Tian Gang etc This invaluable volume contains the selected papers presented at the conference The topics include canonical maps of Gorenstein 3 folds fundamental groups of algebraic curves Chen's iterated integrals algebraic fiber spaces and others

*Triangulated Categories* Thorsten Holm, Peter Jørgensen, Raphaël Rouquier, 2010-06-24 Over the last few decades triangulated categories have become increasingly important to the extent that they can now be viewed as a unifying theory underlying major parts of modern mathematics This 2010 collection of survey articles written by leading experts covers fundamental aspects of triangulated categories as well as applications in algebraic geometry representation theory commutative algebra microlocal analysis and algebraic topology These self contained articles are a useful introduction for graduate students entering the field and a valuable reference for experts

*The Scientific Legacy of Poincare* Éric Charpentier, Etienne Ghys, Annick Lesne, 2010 Henri Poincare 1854 1912 was one of the greatest scientists of his time perhaps the last one to have mastered and expanded almost all areas in mathematics and theoretical physics He created new mathematical branches such as algebraic topology dynamical systems and automorphic functions and he opened the way to complex analysis with several variables and to the modern approach to asymptotic expansions He revolutionized celestial mechanics discovering deterministic chaos In physics he is one of the fathers of special relativity and his work in the philosophy of sciences is illuminating For this book about twenty world experts were asked to present one part of Poincare's extraordinary work Each chapter treats one theme presenting Poincare's approach and achievements along with examples of recent applications and some current prospects Their contributions emphasize the power and modernity of the work of Poincare an inexhaustible source of inspiration for researchers as illustrated by the Fields Medal awarded in 2006 to Grigori Perelman for his proof of the Poincare conjecture stated a century before This book can be read by anyone with a master's even a bachelor's degree in mathematics or physics or more generally by anyone who likes mathematical and physical ideas Rather than presenting detailed proofs the main ideas are explained and a bibliography is provided for those who wish to understand the technical details

*Trends in Contemporary Mathematics* Vincenzo Ancona, Elisabetta Strickland, 2014-08-27 The topics faced in this book cover a large spectrum of current trends in mathematics such as Shimura varieties and the Langlands program zonotopal combinatorics non linear potential theory variational methods in imaging Riemann holonomy and algebraic geometry mathematical problems arising in kinetic theory Boltzmann systems Pell's equations in polynomials deformation theory in non commutative algebras This work contains a selection of contributions written by international leading mathematicians who were speakers at the INdAM Day

an initiative born in 2004 to present the most recent developments in contemporary mathematics

**Books in Series,**  
**1876-1949** R.R. Bowker Company, 1982     *Modern Aspects of Dynamical Systems* Manfred Einsiedler, Giovanni Forni, Vadim Kaloshin, Jasmin Raissy, 2024-10-02 This book provides an overview of recent advances in the theory of dynamical systems with a particular emphasis on their connections to other areas of mathematical research including number theory geometry mathematical physics complex analysis and celestial mechanics Compiling the lecture notes from some of the contributions presented at the C I M E school Modern Aspects of Dynamical Systems held in Cetraro in August 2021 the contributions are the following Homogeneous dynamics and Diophantine problems by Manfred Einsiedler Effective ergodic theory for translation flow by Giovanni Forni Integrability and rigidity for convex billiards by Vadim Kaloshin Holomorphic dynamics by Jasmin Raissy and Exponentially small phenomena and its role in the dynamics by Tere Martinez Seara These notes are suitable for graduate students and young researchers interested in an introduction to some of the modern research areas within the field of dynamical systems

Commutative Algebra Irena Peeva, 2013-02-01 This contributed volume brings together the highest quality expository papers written by leaders and talented junior mathematicians in the field of Commutative Algebra Contributions cover a very wide range of topics including core areas in Commutative Algebra and also relations to Algebraic Geometry Algebraic Combinatorics Hyperplane Arrangements Homological Algebra and String Theory The book aims to showcase the area especially for the benefit of junior mathematicians and researchers who are new to the field it will aid them in broadening their background and to gain a deeper understanding of the current research in this area Exciting developments are surveyed and many open problems are discussed with the aspiration to inspire the readers and foster further research

**Invariants of quadratic differential forms** Oswald Veblen, 1927     Fractal Geometry and Dynamical Systems in Pure and Applied Mathematics II David Carfi, Michel L. Lapidus, Erin P. J. Pearse, Machiel van Frankenhuijsen, 2013-10-24 This volume contains the proceedings from three conferences the PISRS 2011 International Conference on Analysis Fractal Geometry Dynamical Systems and Economics held November 8 12 2011 in Messina Italy the AMS Special Session on Fractal Geometry in Pure and Applied Mathematics in memory of Beno t Mandelbrot held January 4 7 2012 in Boston MA and the AMS Special Session on Geometry and Analysis on Fractal Spaces held March 3 4 2012 in Honolulu HI Articles in this volume cover fractal geometry and various aspects of dynamical systems in applied mathematics and the applications to other sciences Also included are articles discussing a variety of connections between these subjects and various areas of physics engineering computer science technology economics and finance as well as of mathematics including probability theory in relation with statistical physics and heat kernel estimates geometric measure theory partial differential equations in relation with condensed matter physics global analysis on non smooth spaces the theory of billiards harmonic analysis and spectral geometry The companion volume Contemporary Mathematics Volume 600 focuses on the more mathematical aspects of fractal geometry and dynamical systems

Microlocal Analysis and Inverse Problems in

Tomography and Geometry Eric Todd Quinto, Plamen D. Stefanov, Gunther Uhlmann, 2024-09-23 Microlocal Analysis has proven to be a powerful tool for analyzing and solving inverse problems including answering questions about stability uniqueness recovery of singularities etc This volume presents several studies on microlocal methods in problems in tomography integral geometry geodesic transforms travel time tomography thermoacoustic tomography Compton CT cosmology nonlinear inverse problems and others

*Harmonic Analysis on Symmetric Spaces—Higher Rank Spaces, Positive Definite Matrix Space and Generalizations* Audrey Terras, 2016-04-26 This text is an introduction to harmonic analysis on symmetric spaces focusing on advanced topics such as higher rank spaces positive definite matrix space and generalizations It is intended for beginning graduate students in mathematics or researchers in physics or engineering As with the introductory book entitled *Harmonic Analysis on Symmetric Spaces Euclidean Space the Sphere and the Poincaré Upper Half Plane* the style is informal with an emphasis on motivation concrete examples history and applications The symmetric spaces considered here are quotients  $X = G/K$  where  $G$  is a non compact real Lie group such as the general linear group  $GL_n(\mathbb{R})$  or  $GL_n(\mathbb{C})$  of all  $n \times n$  non singular real matrices and  $K$  is the maximal compact subgroup of orthogonal matrices Other examples are Siegel's upper half plane and the quaternionic upper half plane In the case of the general linear group one can identify  $X$  with the space  $P_n$  of  $n \times n$  positive definite symmetric matrices Many corrections and updates have been incorporated in this new edition Updates include discussions of random matrix theory and quantum chaos as well as recent research on modular forms and their corresponding L functions in higher rank Many applications have been added such as the solution of the heat equation on  $P_n$  the central limit theorem of Donald St P Richards for  $P_n$  results on densest lattice packing of spheres in Euclidean space and  $GL_n$  analogs of the Weyl law for eigenvalues of the Laplacian in plane domains Topics featured throughout the text include inversion formulas for Fourier transforms central limit theorems fundamental domains in  $X$  for discrete groups such as the modular group  $GL_n(\mathbb{Z})$  of  $n \times n$  matrices with integer entries and determinant 1 connections with the problem of finding densest lattice packings of spheres in Euclidean space automorphic forms Hecke operators L functions and the Selberg trace formula and its applications in spectral theory as well as number theory

**Poisson Geometry in Mathematics and Physics** Giuseppe Dito, 2008 This volume is a collection of articles by speakers at the Poisson 2006 conference The program for Poisson 2006 was an overlap of topics that included deformation quantization generalized complex structures differentiable stacks normal forms and group valued moment maps and reduction

**Nonlinear Optical and Atomic Systems** Christophe Besse, Jean-Claude Garreau, 2015-08-26 Focusing on the interface between mathematics and physics this book offers an introduction to the physics the mathematics and the numerical simulation of nonlinear systems in optics and atomic physics The text covers a wide spectrum of current research on the subject which is an extremely active field in physics and mathematical physics with a very broad range of implications both for fundamental science and technological applications light propagation in microstructured optical fibers Bose Einstein

condensates disordered systems and the newly emerging field of nonlinear quantum mechanics Accessible to PhD students this book will also be of interest to post doctoral researchers and seasoned academics *Geometric Algebra Applications Vol. I* Eduardo Bayro-Corrochano, 2018-06-20 The goal of the Volume I Geometric Algebra for Computer Vision Graphics and Neural Computing is to present a unified mathematical treatment of diverse problems in the general domain of artificial intelligence and associated fields using Clifford or geometric algebra Geometric algebra provides a rich and general mathematical framework for Geometric Cybernetics in order to develop solutions concepts and computer algorithms without losing geometric insight of the problem in question Current mathematical subjects can be treated in an unified manner without abandoning the mathematical system of geometric algebra for instance multilinear algebra projective and affine geometry calculus on manifolds Riemann geometry the representation of Lie algebras and Lie groups using bivector algebras and conformal geometry By treating a wide spectrum of problems in a common language this Volume I offers both new insights and new solutions that should be useful to scientists and engineers working in different areas related with the development and building of intelligent machines Each chapter is written in accessible terms accompanied by numerous examples figures and a complementary appendix on Clifford algebras all to clarify the theory and the crucial aspects of the application of geometric algebra to problems in graphics engineering image processing pattern recognition computer vision machine learning neural computing and cognitive systems [The Asian Journal of Mathematics](#) ,2003 **Introduction to Applied Nonlinear Dynamical Systems and Chaos** Stephen Wiggins, 2006-04-18 Mathematics is playing an ever more important role in the physical and biological sciences provoking a blurring of boundaries between scientific disciplines and a resurgence of interest in the modern as well as the classical techniques of applied mathematics This renewal of interest both in search and teaching has led to the establishment of the series Texts in Applied Mathematics TAM The development of new courses is a natural consequence of a high level of excitement on the research frontier as newer techniques such as numerical and symbolic computer systems dynamical systems and chaos mix with and reinforce the traditional methods of applied mathematics Thus the purpose of this textbook series is to meet the current and future needs of these advances and to encourage the teaching of new courses TAM will publish textbooks suitable for use in advanced undergraduate and beginning graduate courses and will complement the Applied Mathematical Sciences AMS series which will focus on advanced textbooks and research level monographs Pasadena California J E Marsden Providence Rhode Island L Sirovich College Park Maryland S S Antman Preface to the Second Edition This edition contains a significant amount of new material The main reason for this is that the subject of applied dynamical systems theory has seen explosive growth and expansion throughout the 1990s Consequently a student needs a much larger toolbox today in order to begin research on significant problems

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