



Normal Forms, Bifurcations and Finiteness Problems in Differential Equations

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On Finiteness In Differential Equations

Manuel Kauers



On Finiteness In Differential Equations:

On Finiteness in Differential Equations and Diophantine Geometry Dana Schlomiuk, 2005 This book focuses on finiteness conjectures and results in ordinary differential equations ODEs and Diophantine geometry During the past twenty five years much progress has been achieved on finiteness conjectures which are the offspring of the second part of Hilbert's 16th problem Even in its simplest case this is one of the very few problems on Hilbert's list which remains unsolved These results are about existence and estimation of finite bounds for the number of limit cycles occurring in certain families of ODEs The book describes this progress the methods used bifurcation theory asymptotic expansions methods of differential algebra or geometry and the specific results obtained The finiteness conjectures on limit cycles are part of a larger picture that also includes finiteness problems in other areas of mathematics in particular those in Diophantine geometry where remarkable results were proved during the same period of time There is a chapter devoted to finiteness results in D The volume can be used as an independent study text for advanced undergraduates and graduate students studying ODEs or applications of differential algebra to differential equations and Diophantine geometry It is also a good entry point for researchers interested these areas in particular in limit cycles of ODEs and in finiteness problems Contributors to the volume include Andrey Bolibrukh and Alexandru Buium Available from the AMS by A Buium is Arithmetic Differential Equations as Volume 118 in the Mathematical Surveys and Monographs series

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Finite Difference Methods for Ordinary and Partial Differential Equations Randall J. LeVeque, 2007-09-06. Introductory textbook from which students can approach more advanced topics relating to finite difference methods.

Nonstandard Finite Difference Models Of Differential Equations Ronald E. Mickens, 1993-12-23. This book provides a clear summary of the work of the author on the construction of nonstandard finite difference schemes for the numerical integration of differential equations. The major thrust of the book is to show that discrete models of differential equations exist such that the elementary types of numerical instabilities do not occur. A consequence of this result is that in general bigger step sizes can often be used in actual calculations and/or finite difference schemes can be constructed that are conditionally stable in many instances, whereas in using standard techniques no such schemes exist. The theoretical basis of this work is centered on the concepts of exact and best finite difference schemes. In addition, a set of rules is given for the discrete modeling of derivatives and nonlinear expressions that occur in differential equations. These rules often lead to a unique nonstandard finite difference model for a given differential equation.

Vanishing and Finiteness Results in Geometric Analysis Stefano Pigola, Marco Rigoli, Alberto G. Setti, 2008-05-28. This book describes very recent results involving an extensive use of analytical tools in the study of geometrical and topological properties of complete Riemannian manifolds. It analyzes in detail an extension of the Bochner technique to the noncompact setting, yielding conditions which ensure that solutions of geometrically significant differential equations either are trivial (vanishing results) or give rise to finite dimensional vector spaces (finiteness results). The book develops a range of methods from spectral theory and qualitative properties of solutions of PDEs to comparison theorems in Riemannian geometry and potential theory.

Finiteness Theorems for Limit Cycles I. U. S. Il'yashenko, 1991. This book is devoted to the following finiteness theorem: A polynomial vector field on the real plane has a finite number of limit cycles. To prove the theorem it suffices to note that limit cycles cannot accumulate on a polycycle of an analytic vector field. This approach necessitates investigation of the monodromy transformation, also known as the Poincaré return mapping or the first return mapping corresponding to this cycle. To carry out this investigation, this book utilizes five sources: The theory of Dulac, use of the complex domain, resolution of singularities, the geometric theory of normal forms, and superexact asymptotic series. In the introduction, the author presents results about this problem that were known up to the writing of the present book, with full proofs except in the case of the results in the local theory and theorems on resolution of singularities.

Normal Forms, Bifurcations and Finiteness Problems in Differential Equations Christiane Rousseau, Gert Sabidussi, 2004-02-29. Proceedings of the NATO Advanced Study Institute held in Montreal, Canada, from 8 to 19 July 2002.

Inequalities for Finite Difference

Equations B.G. Pachpatte, 2001-12-13 A treatise on finite difference inequalities that have important applications to theories of various classes of finite difference and sum difference equations including several linear and nonlinear finite difference inequalities appearing for the first time in book form *Numerical Solution of Partial Differential Equations by the Finite Element Method* Claes Johnson, 2012-05-23 An accessible introduction to the finite element method for solving numeric problems this volume offers the keys to an important technique in computational mathematics Suitable for advanced undergraduate and graduate courses it outlines clear connections with applications and considers numerous examples from a variety of science and engineering related specialties This text encompasses all varieties of the basic linear partial differential equations including elliptic parabolic and hyperbolic problems as well as stationary and time dependent problems Additional topics include finite element methods for integral equations an introduction to nonlinear problems and considerations of unique developments of finite element techniques related to parabolic problems including methods for automatic time step control The relevant mathematics are expressed in non technical terms whenever possible in the interests of keeping the treatment accessible to a majority of students *D-Finite Functions* Manuel Kauers, 2023-11-08 Defined as solutions of linear differential or difference equations with polynomial coefficients D finite functions play an important role in various areas of mathematics This book is a comprehensive introduction to the theory of these functions with a special emphasis on computer algebra algorithms for computing with them algorithms for detecting relations from given data for evaluating D finite functions for executing closure properties for obtaining various kinds of explicit expressions for factoring operators and for definite and indefinite symbolic summation and integration are explained in detail The book comes with batteries included in the sense that it requires no background in computer algebra as the relevant facts from this area are summarized in the beginning This makes the book accessible to a wide range of readers from mathematics students who plan to work themselves on D finite functions to researchers who want to apply the theory to their own work Hundreds of exercises invite the reader to apply the techniques in the book and explore further aspects of the theory on their own Solutions to all exercises are given in the appendix When algorithms for D finite functions came up in the early 1990s computer proofs were met with a certain skepticism Fortunately these times are over and computer algebra has become a standard tool for many mathematicians Yet this powerful machinery is still not as widely known as it deserves This book helps to spread the word that certain tasks can be safely delegated to a computer algebra system and also what the limitations of these techniques are Finiteness Conditions and Generalized Soluble Groups Derek J.S. Robinson, 2013-03-14 This book is a study of group theoretical properties of two disparate kinds firstly finiteness conditions or generalizations of finiteness and secondly generalizations of solubility or nilpotence It will be particularly interesting to discuss groups which possess properties of both types The origins of the subject may be traced back to the nineteen twenties and thirties and are associated with the names of R Baer S N Cernikov K A Hirsch A G Kurosh O Schmidt and H Wielandt

Since this early period the body of theory has expanded at an increasingly rapid rate through the efforts of many group theorists particularly in Germany Great Britain and the Soviet Union Some of the highest points attained can perhaps be found in the work of P Hall and A I Mal'cev on infinite soluble groups Kuras's well known book The theory of groups has exercised a strong influence on the development of the theory of infinite groups this is particularly true of the second edition in its English translation of 1955 To cope with the enormous increase in knowledge since that date a third volume containing a survey of the contents of a very large number of papers but without proofs was added to the book in 1967

The Arnoldfest Vladimir Igorevich Arnol'd, Edward Bierstone, This volume presents articles originating from invited talks at an exciting international conference held at The Fields Institute in Toronto celebrating the sixtieth birthday of the renowned mathematician Vladimir Arnold Experts from the world over including several from Arnold's school gave illuminating talks and lively poster sessions The presentations focused on Arnold's main areas of interest singularity theory the theory of curves symmetry groups dynamical systems mechanics and related areas of mathematics The book begins with notes of three lectures by V Arnold given in the framework of the Institute's Distinguished Lecturer program The topics of the lectures are

- 1 From Hilbert's Superposition Problem to Dynamical Systems
- 2 Symplectization Complexification and Mathematical Trinities
- 3 Topological Problems in Wave Propagation Theory and Topological Economy Principle in Algebraic Geometry

Arnold's three articles include insightful comments on Russian and Western mathematics and science Complementing the first is Jurgen Moser's Recollections concerning some of the history of KAM theory

Partial Differential Equations and the Finite Element Method Pavel Šolín, 2005-12-13 A systematic introduction to partial differential equations and modern finite element methods for their efficient numerical solution Partial Differential Equations and the Finite Element Method provides a much needed clear and systematic introduction to modern theory of partial differential equations PDEs and finite element methods FEM Both nodal and hierarchic concepts of the FEM are examined Reflecting the growing complexity and multiscale nature of current engineering and scientific problems the author emphasizes higher order finite element methods such as the spectral or hp FEM A solid introduction to the theory of PDEs and FEM contained in Chapters 1-4 serves as the core and foundation of the publication Chapter 5 is devoted to modern higher order methods for the numerical solution of ordinary differential equations ODEs that arise in the semidiscretization of time dependent PDEs by the Method of Lines MOL Chapter 6 discusses fourth order PDEs rooted in the bending of elastic beams and plates and approximates their solution by means of higher order Hermite and Argyris elements Finally Chapter 7 introduces the reader to various PDEs governing computational electromagnetics and describes their finite element approximation including modern higher order edge elements for Maxwell's equations The understanding of many theoretical and practical aspects of both PDEs and FEM requires a solid knowledge of linear algebra and elementary functional analysis such as functions and linear operators in the Lebesgue Hilbert and Sobolev spaces These topics are discussed with the help of many illustrative examples in Appendix A

which is provided as a service for those readers who need to gain the necessary background or require a refresher tutorial Appendix B presents several finite element computations rooted in practical engineering problems and demonstrates the benefits of using higher order FEM Numerous finite element algorithms are written out in detail alongside implementation discussions Exercises including many that involve programming the FEM are designed to assist the reader in solving typical problems in engineering and science Specifically designed as a coursebook this student tested publication is geared to upper level undergraduates and graduate students in all disciplines of computational engineering and science It is also a practical problem solving reference for researchers engineers and physicists

Handbook of Geometry and Topology of Singularities V: Foliations Felipe Cano, José Luis Cisneros-Molina, Lê Dũng Tráng, José Seade, 2024-06-05 This is the fifth 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 Singularities are ubiquitous in mathematics and science in general and singularity theory is a crucible where different types of mathematical problems converge surprising connections are born and simple questions lead to ideas which resonate in other parts of the subject and in other subjects This Volume V focuses on singular holomorphic foliations which is a multidisciplinary field and a whole area of mathematics in itself Singular foliations arise for instance by considering The fibers of a smooth map between differentiable manifolds with singularities at the critical points The integral lines of a vector field or the action of a Lie group on a manifold The singularities are the orbits with special isotropy The kernel of appropriate 1 forms The singularities are the zeros of the form Open books which naturally appear in singularity theory as foliations with singular set the binding These important examples highlight the deep connections between foliations and singularity theory This volume like its companion Volume VI also focused on foliations consists of nine chapters authored by world experts which provide in depth and reader friendly introductions to some of the foundational aspects of the theory These introductions also give insights into important lines of further research The volume starts with a foreword by one of the current world leaders in the theory of complex foliations The book is addressed to graduate students and newcomers to the theory as well as to specialists who can use it as a guidebook

Partial differential equations: an essay towards an entirely new method of integrating them Samuel Earnshaw, 1871

Number Theory Arising From Finite Fields John Knopfmacher, Wen-Bin Zhang, 2001-04-10 Number Theory Arising from Finite Fields Analytic and Probabilistic Theory offers a discussion of the advances and developments in the field of number theory arising from finite fields It emphasizes mean value theorems of multiplicative functions the theory of additive formulations and the normal distribution of values from additive functions

Spaces of Dynamical Systems Sergei Yu. Pilyugin, 2019-08-05

Discrete Causal Theory Benjamin F. Dribus, 2017-04-26 This book evaluates and suggests potentially critical improvements to causal set theory one of the best motivated approaches to the outstanding problems of fundamental physics Spacetime structure is of central importance to physics beyond general relativity and the standard

model The causal metric hypothesis treats causal relations as the basis of this structure The book develops the consequences of this hypothesis under the assumption of a fundamental scale with smooth spacetime geometry viewed as emergent This approach resembles causal set theory but differs in important ways for example the relative viewpoint emphasizing relations between pairs of events and relationships between pairs of histories is central The book culminates in a dynamical law for quantum spacetime derived via generalized path summation

Dynamical Systems V V.I. Arnold, V.S. Afraimovich, Yu.S. Il'yashenko, L.P. Shil'nikov, 2013-12-01 Bifurcation theory and catastrophe theory are two well known areas within the field of dynamical systems Both are studies of smooth systems focusing on properties that seem to be manifestly non smooth Bifurcation theory is concerned with the sudden changes that occur in a system when one or more parameters are varied Examples of such are familiar to students of differential equations from phase portraits Understanding the bifurcations of the differential equations that describe real physical systems provides important information about the behavior of the systems Catastrophe theory became quite famous during the 1970 s mostly because of the sensation caused by the usually less than rigorous applications of its principal ideas to hot topics such as the characterization of personalities and the difference between a genius and a maniac Catastrophe theory is accurately described as singularity theory and its genuine applications The authors of this book previously published as Volume 5 of the Encyclopaedia have given a masterly exposition of these two theories with penetrating insight

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