Progress in Mathematical Physics

Elena Obolashvili

Higher Order Partial Differential Equations in Clifford Analysis

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Partial Differential Equations In Clifford Analysis

Fabrizio Colombo,Irene Sabadini,Franciscus Sommen,Daniele C. Struppa

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Partial Differential Equations in Clifford Analysis Elena Obolashvili,1999-01-06 Clifford analysis represents one of the most remarkable fields of modern mathematics With the recent finding that almost all classical linear partial differential equations of mathematical physics can be set in the context of Clifford analysis and that they can be obtained without applying any physical laws it appears that Clifford analysis itself can suggest new equations or new generalizations of classical equations that may have some physical content Partial Differential Equations in Clifford Analysis considers in a multidimensional space elliptic hyperbolic and parabolic operators related to Helmholtz Klein Gordon Maxwell Dirac and heat equations The author addresses two kinds of parabolic operators both related to the second order parabolic equations whose principal parts are the Laplacian and d Alembertian an elliptic type parabolic operator and a hyperbolic type parabolic operator She obtains explicit integral representations of solutions to various boundary and initial value problems and their properties and solves some two dimensional and non local problems Written for the specialist but accessible to non specialists as well Partial Differential Equations in Clifford Analysis presents new results reformulations refinements and extensions of familiar material in a manner that allows the reader to feel and touch every formula and problem Mathematicians and physicists interested in boundary and initial value problems partial differential equations and Clifford analysis will find this monograph a refreshing and insightful study that helps fill a void in the literature and in our knowledge

Higher Order Partial Differential Equations in Clifford Analysis Elena Obolashvili,2012-12-06 The most important thing is to write equations in a beautiful form and their success in applications is ensured Paul Dirac The uniqueness and existence theorems for the solutions of boundary and initial value problems for systems of high order partial differential equations PDE are sufficiently well known In this book the problems considered are those whose solutions can be represented in quadratures i e in an effective form Such problems have remarkable applications in mathematical physics the mechanics of deformable bodies electro magnetism relativistic quantum mechanics and some of their natural generalizations Almost all such problems can be set in the context of Clifford analysis Moreover they can be obtained without applying any physical laws a circumstance that gives rise to the idea that Clifford analysis itself can suggest generalizations of classical equations or new equations altogether that may have some physical content For that reason Clifford analysis represents one of the most remarkable fields in modem mathematics as well as in modem physics **Introduction to Clifford Analysis** Johan Ceballos,2020 This book pursues to exhibit how we can construct a Clifford type algebra from the classical one The basic idea of these lecture notes is to show how to calculate fundamental solutions to either first order differential operators of the form D _ i 0 n e_i _i or second order elliptic differential operators D D both with constant coefficients or combinations of this kind of operators After considering in detail how to find the fundamental solution we study the problem of integral representations in a classical Clifford algebra and in a dependent parameter Clifford algebra which generalizes the classical

one We also propose a basic method to extend the order of the operator for instance D n n N and how to produce integral representations for higher order operators and mixtures of them Although the Clifford algebras have produced many applications concerning boundary value problems initial value problems mathematical physics quantum chemistry among others in this book we do not discuss these topics as they are better discussed in other courses Researchers and practitioners will find this book very useful as a source book The reader is expected to have basic knowledge of partial differential equations and complex analysis When planning and writing these lecture notes we had in mind that they would be used as a resource by mathematics students interested in understanding how we can combine partial differential equations and Clifford analysis to find integral representations This in turn would allow them to solve boundary value problems and initial value problems To this end proofs have been described in rigorous detail and we have included numerous worked examples On the other hand exercises have not been included *Clifford Analysis and Boundary Value Problems of Partial Differential Equations* Wolfgang Sprössig,2000 **Applications of Clifford Analysis to Axially Symmetric Partial Differential Equations** J. Ryan,1988 **Clifford Algebras and Their Application in Mathematical Physics** Volker Dietrich,Klaus Habetha,Gerhard Jank,1998 Clifford Algebras continues to be a fast growing discipline with ever increasing applications in many scientific fields This volume contains the lectures given at the Fourth Conference on Clifford Algebras and their Applications in Mathematical Physics held at RWTH Aachen in May 1996 The papers represent an excellent survey of the newest developments around Clifford Analysis and its applications to theoretical physics Audience This book should appeal to physicists and mathematicians working in areas involving functions of complex variables associative rings and algebras integral transforms operational calculus partial differential equations and the mathematics of physics Complex Methods for Partial Differential Equations Heinrich Begehr,A. Okay Celebi,W. Tutschke,2013-12-01 This volume is a collection of manscripts mainly originating from talks and lectures given at the Workshop on Recent Trends in Complex Methods for Par tial Differential Equations held from July 6 to 10 1998 at the Middle East Technical University in Ankara Turkey sponsored by The Scientific and Tech nical Research Council of Turkey and the Middle East Technical University This workshop is a continuation oftwo workshops from 1988 and 1993 at the In ternational Centre for Theoretical Physics in Trieste Italy entitled Functional analytic Methods in Complex Analysis and Applications to Partial Differential Equations Since classical complex analysis of one and several variables has a long tra dition it is of high level But most of its basic problems are solved nowadays so that within the last few decades it has lost more and more attention The area of complex and functional analytic methods in partial differential equations however is still a growing and flourishing field in particular as these methods are not only applied Whithin the framework of holomorphic functions but are also combined with properties of generalized analytic functions This can be seen by the many books which recently were published in this field and also by the proceedings in this ISAAC series and the ISAAC congresses and workshops *Algebraic Structures in Partial Differential*

Equations Related to Complex and Clifford Analysis ,2010 *Analysis of Dirac Systems and Computational Algebra* Fabrizio Colombo,Irene Sabadini,Franciscus Sommen,Daniele C. Struppa,2004-09-23 The main treatment is devoted to the analysis of systems of linear partial differential equations PDEs with constant coefficients focusing attention on null solutions of Dirac systems All the necessary classical material is initially presented Geared toward graduate students and researchers in hyper complex analysis Clifford analysis systems of PDEs with constant coefficients and mathematical physics

Functional-analytic and Complex Methods, Their Interactions, and Applications to Partial Differential Equations Helmut Florian,2001 Functional analysis is not only a tool for unifying mathematical analysis but it also provides the background for today s rapid development of the theory of partial differential equations Using concepts of functional analysis the field of complex analysis has developed methods such as the theory of generalized analytic functions for solving very general classes of partial differential equations This book is aimed at promoting further interactions of functional analysis partial differential equations and complex analysis including its generalizations such as Clifford analysis New interesting problems in the field of partial differential equations concern for instance the Dirichlet problem for hyperbolic equations Applications to mathematical physics address mainly Maxwell s equations crystal optics dynamical problems for cusped bars and conservation laws Sample Chapter s Hyperbolic Equations Waves and the Singularity Theory 858 KB Contents Boundary Value Problems and Initial Value Problems for Partial Differential Equations Applications of Functional Analytic and Complex Methods to Mathematical Physics Partial Complex Differential Equations in the Plane Complex Methods in Higher Dimensions Readership Researchers lecturers and graduate students in the fields of analysis differential equations applied mathematics and mathematical physics **Progress in Partial Differential Equations The Metz Surveys 2** Michel Chipot,1993-11-01 This volume presents papers from the conferences given at the University of Metz in 1992 and presents some recent advances in various important domains of partial differential equations and applied mathematics A special attempt has been made to make this work accessible to young researchers and non specialists

Hypercomplex Analysis Irene Sabadini,Michael Shapiro,Franciscus Sommen,2009-04-21 Contains selected papers from the ISAAC conference 2007 and invited contributions This book covers various topics that represent the main streams of research in hypercomplex analysis as well as the expository articles It is suitable for researchers and postgraduate students in various areas of mathematical analysis **Topics in Mathematical Analysis** Paolo Ciatti,2008 This volume consists of a series of lecture notes on mathematical analysis The contributors have been selected on the basis of both their outstanding scientific level and their clarity of exposition Thus the present collection is particularly suited to young researchers and graduate students Through this volume the editors intend to provide the reader with material otherwise difficult to find and written in a manner which is also accessible to nonexperts *Partial Differential Equations In Sobolev And Analytic Spaces* Aissa Boukarou,Khaled Zennir,Svetlin G Georgiev,2025-01-10 Partial Differential Equations PDEs are fundamental in fields

such as physics and engineering underpinning our understanding of sound heat diffusion electrostatics electrodynamics thermodynamics fluid dynamics elasticity general relativity and quantum mechanics They also arise in areas like differential geometry and the calculus of variations This book focuses on recent investigations of PDEs in Sobolev and analytic spaces It consists of twelve chapters starting with foundational definitions and results on linear metric normed and Banach spaces which are essential for introducing weak solutions to PDEs Subsequent chapters cover topics such as Lebesgue integration Lp spaces distributions Fourier transforms Sobolev and Bourgain spaces and various types of KdV equations Advanced topics include higher order dispersive equations local and global well posedness and specific classes of Kadomtsev Petviashvili equations This book is intended for specialists like mathematicians physicists engineers and biologists It can serve as a graduate level textbook and a reference for multiple disciplines **Modern Trends in Hypercomplex Analysis** Swanhild Bernstein,Uwe Kähler,Irene Sabadini,Franciscus Sommen,2016-11-21 This book contains a selection of papers presented at the session Quaternionic and Clifford Analysis at the 10th ISAAC Congress held in Macau in August 2015 The covered topics represent the state of the art as well as new trends in hypercomplex analysis and its applications **Functional-analytic And Complex Methods, Their Interactions, And Applications To Partial Differential Equations - Proceedings Of The International Graz Workshop** Helmut Florian,Norbert Ortner,Franz Josef Schnitzer,Wolfgang Tutschke,2001-11-12 Functional analysis is not only a tool for unifying mathematical analysis but it also provides the background for today s rapid development of the theory of partial differential equations Using concepts of functional analysis the field of complex analysis has developed methods such as the theory of generalized analytic functions for solving very general classes of partial differential equations This book is aimed at promoting further interactions of functional analysis partial differential equations and complex analysis including its generalizations such as Clifford analysis New interesting problems in the field of partial differential equations concern for instance the Dirichlet problem for hyperbolic equations Applications to mathematical physics address mainly Maxwell s equations crystal optics dynamical problems for cusped bars and conservation laws remove a remove *Quaternionic and Clifford Calculus for Physicists and Engineers* Klaus Gürlebeck,Wolfgang Sprössig,1997 Quarternionic calculus covers a branch of mathematics which uses computational techniques to help solve problems from a wide variety of physical systems which are mathematically modelled in 3 4 or more dimensions Examples of the application areas include thermodynamics hydrodynamics geophysics and structural mechanics Focusing on the Clifford algebra approach the authors have drawn together the research into quarternionic calculus to provide the non expert or research student with an accessible introduction to the subject This book fills the gap between the theoretical representations and the requirements of the user **Operator Theory for Complex and Hypercomplex Analysis** Enrique Ramírez de Arellano,1998 This book presents a collection of papers on certain aspects of general operator theory related to classes of important operators singular integral Toeplitz and Bergman opertors convolution operators on Lie groups pseudodifferential

operators etc The study of these operators arises from integral representations for different classes of functions enriches pure opertor theory and is influential and beneficial for important areas of analysis Particular attention is paid to the fruitful interplay of recent developments of complex and hypercomplex analysis on one side and to operator theory on the other The majority of papers illustrate this interplay as well as related applications The papers represent the proceedings of the conference Operator Theory and Complex and Hypercomplex Analysis held in Decenber 1994 in Mexico City *Progress in Analysis* International Society for Analysis, Applications, and Computation. Congress,2003-01-01 The biannual ISAAC congresses provide information about recent progress in the whole area of analysis including applications and computation This book constitutes the proceedings of the third meeting Contents Volume 1 Function Spaces and Fractional Calculus V I Burenkov Asymptotic Decomposition Methods of Small Parameters Averaging Theory J A Dubinski Integral Transforms and Applications S Saitoh et al Analytic Functionals Hyperfunctions and Generalized Functions M Morimoto Geometric Function Theory G Kohr omplex Function Spaces R Aulaskari Value Distribution Theory and Complex Dynamics C C Yang Clifford Analysis K Grlebeck et al Octonions T Dray Nonlinear Potential Theory O Martio Classical and Fine Potential Theory Holomorphic and Finely Holomorphic Functions P Tamrazov Differential Geometry and Control Theory for PDEs B Gulliver et al Differential Geometry and Quantum Physics Dynamical Systems B Fiedler Attractors for Partial Differential Equations G Raugel Spectral Theory of Differential Operators B Vainberg Pseudodifferential Operators Quantization and Signal Analysis M W Wong Microlocal Analysis B W Schulze Volume 2 Complex and Functional Analytic Methods in PDEs A Cialdea et al Geometric Properties of Solutions of PDEs R Magnanini Qualitative Properties of Solutions of Hyperbolic and SchrAdinger Equations M Reissig Homogenization Moving Boundaries and Porous Media A Bourgeat Constructive Methods in Applied Problems P Krutitskii Waves in Complex Media R P Gilbert Nonlinear Waves I Lasiecka Mathematical Analysis of Problems in Solid Mechanics K Hackl Direct and Inverse Scattering L Fishman Inverse Problems G N Makrakis et al Mathematical Methods in Non Destructive Evaluation and Non Destructive Testing A Wirgin Numerical Methods for PDEs Systems and Optimization A Ben Israel I Herrera Readership Graduate students and researchers in real complex numerical analysis as well as mathematical physics Progress in Analysis Heinrich G. W. Begehr,Robert Pertsch Gilbert,Man Wah Wong,2003 The biannual ISAAC congresses provide information about recent progress in the whole area of analysis including applications and computation This book constitutes the proceedings of the third meeting

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