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Klaus Gürlebeck  
Wolfgang Sprößig  
**Quaternionic Analysis  
and Elliptic Boundary  
Value Problems**

**Birkhäuser**

# Quaternionic Analysis And Elliptic Boundary Value Problems International Series Of Numerical Mathematics Volume 89

**Beniamino Murgante, Sanjay  
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## **Quaternionic Analysis And Elliptic Boundary Value Problems International Series Of Numerical Mathematics Volume 89:**

**Quaternionic Analysis and Elliptic Boundary Value Problems** Gürlebeck, Sprössig, 2013-03-08      **Numerical Methods in Approximation Theory, Vol. 9** D. Braess, L.L. Schumaker, 2013-03-11 This book is the official proceedings of a conference on Numerical Methods in Approximation Theory which was held at the Mathematisches Forschungsinstitut in Oberwolfach during the week of November 24-30 1991. It contains refereed and edited papers by 20 of the 49 participants. The book is dedicated to the memory of Prof. Lothar Collatz who maintained a long and active interest in numerical approximation. It is the ninth in a series of volumes published by Birkhäuser resulting from conferences on the subject held at Oberwolfach and co-organized by Prof. Collatz. We now briefly describe the contents of the book. The paper of BASZEN, SKI, DELVOS and JESTER deals with blending using sine double series expansions of functions defined on the unit square. In addition to giving explicit error estimates for partial sums and for interpolating sine polynomials, they also show that Boolean sums yield almost the same asymptotic error estimates as the conventional tensor product approach but with a reduced number of terms. The paper of BEATSON and LIGHT discusses approximation by quasi-interpolants which are sums of scaled translates of a one-parameter family of functions. They do not require reproduction of low degree polynomials but nevertheless are able to give error bounds and analyze quasi-interpolation based on Gaussians and exponentials. BINEV and JETTER deal with multivariate interpolation using shifts of a single basis function. They treat both gridded data and scattered data. As examples, they consider box splines and certain radial basis functions.      Quaternionic Closed Operators, Fractional Powers and Fractional Diffusion Processes Fabrizio Colombo, Jonathan Gantner, 2019-07-10 This book presents a new theory for evolution operators and a new method for defining fractional powers of vector operators. This new approach allows to define new classes of fractional diffusion and evolution problems. These innovative methods and techniques based on the concept of  $S$  spectrum can inspire researchers from various areas of operator theory and PDEs to explore new research directions in their fields. This monograph is the natural continuation of the book *Spectral Theory on the  $S$  Spectrum for Quaternionic Operators* by Fabrizio Colombo, Jonathan Gantner and David P. Kimsey. **Operator Theory Advances and Applications Vol. 270**      **Quaternionic Hilbert Spaces and Slice Hyperholomorphic Functions** Daniel Alpay, Fabrizio Colombo, Irene Sabadini, 2024-12-09 The purpose of the present book is to develop the counterparts of Banach and Hilbert spaces in the setting of slice hyperholomorphic functions. Banach and Hilbert spaces of analytic functions in one or several complex variables play an important role in analysis and related fields. Besides their intrinsic interest, such spaces have numerous applications. The book is divided into three parts. In the first part, some foundational material on quaternionic functions and functional analysis is introduced. The second part is the core of the book and contains various types of function spaces ranging from the Hardy spaces also in the fractional case to the Fock space extended to the case of

quaternions The third and final part present some further generalization Researchers in functional analysis and hypercomplex analysis will find this book a key contribution to their field but also researchers in mathematical physics especially in quantum mechanics will benefit from the insights presented *Regular Functions of a Quaternionic Variable* Graziano Gentili, Caterina Stoppato, Daniele C. Struppa, 2022-09-23 This book surveys the foundations of the theory of slice regular functions over the quaternions introduced in 2006 and gives an overview of its generalizations and applications As in the case of other interesting quaternionic function theories the original motivations were the richness of the theory of holomorphic functions of one complex variable and the fact that quaternions form the only associative real division algebra with a finite dimension  $n \geq 2$  Slice regular functions quickly showed particularly appealing features and developed into a full fledged theory while finding applications to outstanding problems from other areas of mathematics For instance this class of functions includes polynomials and power series The nature of the zero sets of regular functions is particularly interesting and strictly linked to an articulate algebraic structure which allows several types of series expansion and the study of singularities Integral representation formulas enrich the theory and are fundamental to the construction of a noncommutative functional calculus Regular functions have a particularly nice differential topology and are useful tools for the construction and classification of quaternionic orthogonal complex structures where they compensate for the scarcity of conformal maps in dimension four This second expanded edition additionally covers a new branch of the theory the study of regular functions whose domains are not axially symmetric The volume is intended for graduate students and researchers in complex or hypercomplex analysis and geometry function theory and functional analysis in general *Computational Science and Its Applications -- ICCSA 2013* Beniamino Murgante, Sanjay Misra, Maurizio Carlini, Carmelo Torre, Hong-Quang Nguyen, David Taniar, Bernady O. Apduhan, Osvaldo Gervasi, 2013-06-22 The five volume set LNCS 7971 7975 constitutes the refereed proceedings of the 13th International Conference on Computational Science and Its Applications ICCSA 2013 held in Ho Chi Minh City Vietnam in June 2013 Apart from the general track ICCSA 2013 also include 33 special sessions and workshops in various areas of computational sciences ranging from computational science technologies to specific areas of computational sciences such as computer graphics and virtual reality There are 46 papers from the general track and 202 in special sessions and workshops *Flow in Porous Media* J. Douglas, U. Hornung, 2012-12-06 Jim Douglas Jr These proceedings reflect some of the thoughts expressed at the Oberwolfach Conference on Porous Media held June 21 27 1992 organized by Jim Douglas Jr Ulrich Hornung and Cornelius J van Duijn Forty five scientists attended the conference and about thirty papers were presented Fourteen manuscripts were submitted for the proceedings and are incorporated in this volume they cover a number of aspects of flow and transport in porous media Indeed there are 223 individual references in the fourteen papers but fewer than fifteen are cited in more than one paper The papers appear in alphabetical order on the basis of the first author A brief introduction to each paper is given below Allen and Curran consider a variety of questions

related to the simulation of ground water contamination Accurate water velocities are essential for acceptable results and the authors apply mixed finite elements to the pressure equation to obtain these velocities Since fine grids are required to resolve heterogeneities standard iterative procedures are too slow for practical simulation the authors introduce a parallelizable multigrid based iterative scheme for the lowest order Raviart Thomas mixed method Contaminant transport is approximated through a finite element collocation procedure and an alternating direction modified method of characteristics technique is employed to time step the simulation Computational experiments carried out on an nCube 2 computer

**Mathematical Modelling and Simulation of Electrical Circuits and Semiconductor Devices** Randolph Bank, R. Bulirsch, H. Gajewski, K. Merten, 2012-12-06 Progress in today's high technology industries is strongly associated with the development of new mathematical tools A typical illustration of this partnership is the mathematical modelling and numerical simulation of electric circuits and semiconductor devices At the second Oberwolfach conference devoted to this important and timely field scientists from around the world mainly applied mathematicians and electrical engineers from industry and universities presented their new results Their contributions forming the body of this work cover electric circuit simulation device simulation and process simulation Discussions on experiences with standard software packages and improvements of such packages are included In the semiconductor area special lectures were given on new modelling approaches numerical techniques and existence and uniqueness results In this connection mention is made for example of mixed finite element methods an extension of the Baliga Patankar technique for a three dimensional simulation and the connection between semiconductor equations and the Boltzmann equations

**Michele Sce's Works in Hypercomplex Analysis** Fabrizio Colombo, Irene Sabadini, Daniele C. Struppa, 2020-10-24 This book presents English translations of Michele Sce's most important works originally written in Italian during the period 1955-1973 on hypercomplex analysis and algebras of hypercomplex numbers Despite their importance these works are not very well known in the mathematics community because of the language they were published in Possibly the most remarkable instance is the so called Fueter Sce mapping theorem which is a cornerstone of modern hypercomplex analysis and is not yet understood in its full generality This volume is dedicated to revealing and describing the framework Sce worked in at an exciting time when the various generalizations of complex analysis in one variable were still in their infancy In addition to faithfully translating Sce's papers the authors discuss their significance and explain their connections to contemporary research in hypercomplex analysis They also discuss many concrete examples that can serve as a basis for further research The vast majority of the results presented here will be new to readers allowing them to finally access the original sources with the benefit of comments from fellow mathematicians active in the field of hypercomplex analysis As such the book offers not only an important chapter in the history of hypercomplex analysis but also a roadmap for further exciting research in the field

*Quaternionic Analysis and Elliptic Boundary Value Problems* Klaus Gürlebeck, Wolfgang Sprössig, 1990

*Clifford Algebras* Rafal Ablamowicz, 2012-12-06 The

invited papers in this volume provide a detailed examination of Clifford algebras and their significance to analysis geometry mathematical structures physics and applications in engineering While the papers collected in this volume require that the reader possess a solid knowledge of appropriate background material they lead to the most current research topics With its wide range of topics well established contributors and excellent references and index this book will appeal to graduate students and researchers

**Integral Equations** Wolfgang Hackbusch, 2012-12-06 The theory of integral equations has been an active research field for many years and is based on analysis function theory and functional analysis On the other hand integral equations are of practical interest because of the boundary integral equation method which transforms partial differential equations on a domain into integral equations over its boundary This book grew out of a series of lectures given by the author at the Ruhr Universitat Bochum and the Christian Albrecht Universitat zu Kiel to students of mathematics The contents of the first six chapters correspond to an intensive lecture course of four hours per week for a semester Readers of the book require background from analysis and the foundations of numerical mathematics Knowledge of functional analysis is helpful but to begin with some basic facts about Banach and Hilbert spaces are sufficient The theoretical part of this book is reduced to a minimum in Chapters 2 4 and 5 more importance is attached to the numerical treatment of the integral equations than to their theory Important parts of functional analysis e g the Riesz Schauder theory are presented without proof We expect the reader either to be already familiar with functional analysis or to become motivated by the practical examples given here to read a book about this topic We recall that also from a historical point of view functional analysis was initially stimulated by the investigation of integral equations

Stability Theory Rolf Jeltsch, Mohamed Mansour, 2012-12-06 This book contains the historical development of the seminal paper of Adolf Hurwitz professor in mathematics at ETH 1892 1919 and its impact on other fields The major emphasis however is on modern results in stability theory and its application in the theory of control and numerics In particular stability of the following problems is treated linear nonlinear and time dependent systems discretizations of ordinary and partial differential equations systems with time delay on multidimensional systems In addition robust stability pole placement and problems related to the stability radius are treated The book is an outgrowth of the international conference Centennial Hurwitz on Stability Theory which was held to honor Adolf Hurwitz whose article on the location of roots of a polynomial was published one hundred years ago The conference took place at the Centro Stefano Franscini Monte Verita Ascona Switzerland on May 21 26 1995 This book contains a collection of the papers and open problem discussed all that occasion Leading researchers from all over the world working on stability theory and its application were invited to present their recent results In one paper the historic development initiated by Hurwitz's article was discussed

Current Developments in Solid Mechanics and Their Applications Holm Altenbach, 2025-07-07 This book is a collection of articles by eminent scientists from different countries who participated in the traditional international conference Topical Problems of Continuum Mechanics held at the Institute of Mechanics of the National Academy of Sciences

of Armenia since 2007 The topics of the articles Coupled Fields in Solids Composites Soil Mechanics Fluid Mechanics Mechanics of Nano Systems Structural Mechanics Biomechanics Hydraulics and Hydraulic Facilities Experimental Mechanics    *Recent Developments in Operator Theory, Mathematical Physics and Complex Analysis* Daniel Alpay,Jussi Behrndt,Fabrizio Colombo,Irene Sabadini,Daniele C. Struppa,2023-04-11 This book features a collection of papers by plenary semi plenary and invited contributors at IWOTA2021 held at Chapman University in hybrid format in August 2021 The topics span areas of current research in operator theory mathematical physics and complex analysis    *1994 IEEE International Symposium on Circuits and Systems* ,1994    **Numerische Methoden der Approximationstheorie: without special title** Lothar Collatz,Günther Meinardus,1972    *Modern Methods in Operator Theory and Harmonic Analysis* Alexey Karapetyants,Vladislav Kravchenko,Elijah Liflyand,2019-08-28 This proceedings volume gathers selected peer reviewed papers from the Modern Methods Problems and Applications of Operator Theory and Harmonic Analysis VIII OTHA 2018 conference which was held in Rostov on Don Russia in April 2018 The book covers a diverse range of topics in advanced mathematics including harmonic analysis functional analysis operator theory function theory differential equations and fractional analysis all fields that have been intensively developed in recent decades Direct and inverse problems arising in mathematical physics are studied and new methods for solving them are presented Complex multiparameter objects that require the involvement of operators with variable parameters and functional spaces with fractional and even variable exponents make these approaches all the more relevant Given its scope the book will especially benefit researchers with an interest in new trends in harmonic analysis and operator theory though it will also appeal to graduate students seeking new and intriguing topics for further investigation    *Subject Guide to Children's Books in Print 1997* Bowker Editorial Staff,R R Bowker Publishing,1996-09    **Complex Analysis and Dynamical Systems** Mark L'vovich Agranovskii,2004 This book contains contributions from the participants of an International Conference on Complex Analysis and Dynamical Systems The papers collected here are devoted to various topics in complex analysis and dynamical systems ranging from properties of holomorphic mappings to attractors in hyperbolic spaces Overall these selections provide an overview of activity in analysis at the outset of the twenty first century The book is suitable for graduate students and researchers in complex analysis and related problems of dynamics With this volume the Israel Mathematical Conference Proceedings are now published as a subseries of the AMS Contemporary Mathematics series

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