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# Bicomplex Holomorphic Functions: The Algebra, Geometry and Analysis of Bicomplex Numbers

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**Bicomplex Holomorphic Functions The Algebra  
Geometry And Analysis Of Bicomplex Numbers Frontiers  
In Mathematics**

**Daniel Alpay, Mihaela B. Vajiac**



## **Bicomplex Holomorphic Functions The Algebra Geometry And Analysis Of Bicomplex Numbers Frontiers In Mathematics:**

Bicomplex Holomorphic Functions M. Elena Luna-Elizarrarás, Michael Shapiro, Daniele C. Struppa, Adrian Vajiac, 2015-12-11 The purpose of this book is to develop the foundations of the theory of holomorphicity on the ring of bicomplex numbers Accordingly the main focus is on expressing the similarities with and differences from the classical theory of one complex variable The result is an elementary yet comprehensive introduction to the algebra geometry and analysis of bicomplex numbers Around the middle of the nineteenth century several mathematicians the best known being Sir William Hamilton and Arthur Cayley became interested in studying number systems that extended the field of complex numbers Hamilton famously introduced the quaternions a skew field in real dimension four while almost simultaneously James Cockle introduced a commutative four dimensional real algebra which was rediscovered in 1892 by Corrado Segre who referred to his elements as bicomplex numbers The advantages of commutativity were accompanied by the introduction of zero divisors something that for a while dampened interest in this subject In recent years due largely to the work of G B Price there has been a resurgence of interest in the study of these numbers and more importantly in the study of functions defined on the ring of bicomplex numbers which mimic the behavior of holomorphic functions of a complex variable While the algebra of bicomplex numbers is a four dimensional real algebra it is useful to think of it as a complexification of the field of complex numbers from this perspective the bicomplex algebra possesses the properties of a one dimensional theory inside four real dimensions Its rich analysis and innovative geometry provide new ideas and potential applications in relativity and quantum mechanics alike The book will appeal to researchers in the fields of complex hypercomplex and functional analysis as well as undergraduate and graduate students with an interest in one or multidimensional complex analysis *Advances in Complex Analysis and Operator Theory* Fabrizio Colombo, Irene Sabadini, Daniele C. Struppa, Mihaela B. Vajiac, 2017-09-30 This book gathers contributions written by Daniel Alpay's friends and collaborators Several of the papers were presented at the International Conference on Complex Analysis and Operator Theory held in honor of Professor Alpay's 60th birthday at Chapman University in November 2016 The main topics covered are complex analysis operator theory and other areas of mathematics close to Alpay's primary research interests The book is recommended for mathematicians from the graduate level on working in various areas of mathematical analysis operator theory infinite dimensional analysis linear systems and stochastic processes *Clifford Analysis and Related Topics* Paula Cerejeiras, Craig A. Nolder, John Ryan, Carmen Judith Vanegas Espinoza, 2018-09-07 This book intended to commemorate the work of Paul Dirac highlights new developments in the main directions of Clifford analysis Just as complex analysis is based on the algebra of the complex numbers Clifford analysis is based on the geometric Clifford algebras Many methods and theorems from complex analysis generalize to higher dimensions in various ways However many new features emerge in the process and much of this work is still in its infancy

Some of the leading mathematicians working in this field have contributed to this book in conjunction with Clifford Analysis and Related Topics a conference in honor of Paul A M Dirac which was held at Florida State University Tallahassee on December 15 17 2014 The content reflects talks given at the conference as well as contributions from mathematicians who were invited but were unable to attend Hence much of the mathematics presented here is not only highly topical but also cannot be found elsewhere in print Given its scope the book will be of interest to mathematicians and physicists working in these areas as well as students seeking to catch up on the latest developments

**Linear Systems, Signal Processing and Hypercomplex Analysis** Daniel Alpay, Mihaela B. Vajiac, 2019-08-08 This volume includes contributions originating from a conference held at Chapman University during November 14 19 2017 It presents original research by experts in signal processing linear systems operator theory complex and hypercomplex analysis and related topics [Rivista di matematica della Università di Parma](#), 2021

**New Frontiers in Number Theory and Applications** Jordi Guàrdia, Nicuşor Minculete, Diana Savin, Montserrat Vela, Abdelkader Zekhnini, 2024-05-27 This contributed volume presents recent advances as well as new directions in number theory and its applications Algebraic and analytic number theory are the main focus with chapters showing how these areas are rapidly evolving By gathering authors from over seven countries readers will gain an international perspective on the current state of research as well as potential avenues to explore Specific topics covered include Algebraic Number Theory Elliptic curves and Cryptography Hopf Galois theory Analytic and elementary number theory and applications New Frontiers in Number Theory and Applications will appeal to researchers interested in gaining a global view of current research in number theory

**Applications of Holomorphic Functions in Geometry** Arif Salimov, 2023-05-06 This book expounds on the recent developments in applications of holomorphic functions in the theory of hypercomplex and anti Hermitian manifolds as well as in the geometry of bundles It provides detailed information about holomorphic functions in algebras and discusses some of the areas in geometry with applications The book proves the existence of a one to one correspondence between hyper complex anti K hler manifolds and anti Hermitian manifolds with holomorphic metrics and also a deformed lifting to bundles Researchers and students of geometry algebra topology and physics may find the book useful as a self study guide

**Geometry of Holomorphic Mappings** Sergey Pinchuk, Rasul Shafikov, Alexandre Sukhov, 2023-09-14 This monograph explores the problem of boundary regularity and analytic continuation of holomorphic mappings between domains in complex Euclidean spaces Many important methods and techniques in several complex variables have been developed in connection with these questions and the goal of this book is to introduce the reader to some of these approaches and to demonstrate how they can be used in the context of boundary properties of holomorphic maps The authors present substantial results concerning holomorphic mappings in several complex variables with improved and often simplified proofs Emphasis is placed on geometric methods including the Kobayashi metric the Scaling method Segre varieties and the Reflection principle Geometry of Holomorphic Mappings will

provide a valuable resource for PhD students in complex analysis and complex geometry it will also be of interest to researchers in these areas as a reference

Bicomplex And Hyperbolic Numbers Jaishree Agarwal, 2012 The theory of bicomplex numbers has found extensions and applications in many directions such as Quantum Mechanics Blind Source Separation etc The hyperbolic numbers are associated to Space time geometry as stated by Lorentz transformations of special relativity etc Motivated by the wide range of applications we study the bicomplex numbers and develop the theory of such numbers Rochon presented a variety of algebraic properties of both bicomplex and hyperbolic numbers He studied three types of conjugations and four types of moduli for both bicomplex and hyperbolic numbers We have made a thorough investigation of Rochon's work We have established the relations among three types of conjugations We have also investigated the impact of various kinds of conjugation on Principal ideals and idempotent elements of  $C_2$  and  $D$  We have given an alternative definition of  $j$  modulus and we have compared our definition with the corresponding definition given by Rochon Hyperbolic numbers are particular case of bicomplex numbers We also introduce notions of conjugates and moduli of hyperbolic numbers

*The Geometry of Complex Domains* Robert E. Greene, Kang-Tae Kim, Steven G. Krantz, 2011-05-18 This work examines a rich tapestry of themes and concepts and provides a comprehensive treatment of an important area of mathematics while simultaneously covering a broader area of the geometry of domains in complex space At once authoritative and accessible this text touches upon many important parts of modern mathematics complex geometry equivalent embeddings Bergman and Kahler geometry curvatures differential invariants boundary asymptotics of geometries group actions and moduli spaces The Geometry of Complex Domains can serve as a coming of age book for a graduate student who has completed at least one semester or more of complex analysis and will be most welcomed by analysts and geometers engaged in current research

*Non-commutative Geometry in Mathematics and Physics* Giuseppe Dito, 2008 This volume represents the proceedings of the conference on Topics in Deformation Quantization and Non Commutative Structures held in Mexico City in September 2005 It contains survey papers and original contributions by various experts in the fields of deformation quantization and non commutative derived algebraic geometry in the interface between mathematics and physics It also contains an article based on the XI Memorial Lectures given by M Kontsevich which were delivered as part of the conference This is an excellent introductory volume for readers interested in learning about quantization as deformation Hopf algebras and Hodge structures in the framework of non commutative algebraic geometry

**Extension of Holomorphic Functions** Marek Jarnicki, Peter Pflug, 2020-05-05 This second extended edition of the classic reference on the extension problem of holomorphic functions in pluricomplex analysis contains a wealth of additional material organized under the original chapter structure and covers in a self contained way all new and recent developments and theorems that appeared since the publication of the first edition about twenty years ago

*Theory and Applications of Holomorphic Functions on Algebraic Varieties over Arbitrary Ground Fields* Oscar Zariski, 1951

Geometric Analysis of the

Bergman Kernel and Metric Steven G. Krantz, 2013-09-20 This text provides a masterful and systematic treatment of all the basic analytic and geometric aspects of Bergman's classic theory of the kernel and its invariance properties. These include calculation, invariance properties, boundary asymptotics and asymptotic expansion of the Bergman kernel and metric. Moreover, it presents a unique compendium of results with applications to function theory, geometry, partial differential equations and interpretations in the language of functional analysis with emphasis on the several complex variables context. Several of these topics appear here for the first time in book form. Each chapter includes illustrative examples and a collection of exercises which will be of interest to both graduate students and experienced mathematicians. Graduate students who have taken courses in complex variables and have a basic background in real and functional analysis will find this textbook appealing. Applicable courses for either main or supplementary usage include those in complex variables, several complex variables, complex differential geometry and partial differential equations. Researchers in complex analysis, harmonic analysis, PDEs and complex differential geometry will also benefit from the thorough treatment of the many exciting aspects of Bergman's theory. Complex Analysis and Algebraic Geometry Kunihiro Kodaira, W. L. Jr. Baily, T. Shioda, 1977 The articles in this volume cover some developments in complex analysis and algebraic geometry. The book is divided into three parts. Part I includes topics in the theory of algebraic surfaces and analytic surface. Part II covers topics in moduli and classification problems as well as structure theory of certain complex manifolds. Part III is devoted to various topics in algebraic geometry, analysis and arithmetic. A survey article by Ueno serves as an introduction to the general background of the subject matter of the volume. The volume was written for Kunihiro Kodaira on the occasion of his sixtieth birthday by his friends and students. Professor Kodaira was one of the world's leading mathematicians in algebraic geometry and complex manifold theory and the contributions reflect those concerns. *Geometry at the Frontier: Symmetries and Moduli Spaces of Algebraic Varieties* Paola Comparin, Eduardo Esteves, Herbert Lange, Sebastián Reyes-Carocca, Rubí E. Rodríguez, 2021-04-23 Articles in this volume are based on lectures given at three conferences on Geometry at the Frontier held at the Universidad de la Frontera, Pucón, Chile in 2016, 2017 and 2018. The papers cover recent developments on the theory of algebraic varieties in particular of their automorphism groups and moduli spaces. They will be of interest to anyone working in the area as well as young mathematicians and students interested in complex and algebraic geometry. **Complex Analysis and Algebraic Geometry** Thomas Peternell, Frank-Olaf Schreyer, 2016-12-19 No detailed description available for Complex Analysis and Algebraic Geometry. **Complex Analysis in Banach Spaces** J. Mujica, 1985-11-01 Problems arising from the study of holomorphic continuation and holomorphic approximation have been central in the development of complex analysis in finitely many variables and constitute one of the most promising lines of research in infinite dimensional complex analysis. This book presents a unified view of these topics in both finite and infinite dimensions. **Hyperbolic Complex Spaces** Shoshichi Kobayashi, 1998-05-06 In the three decades since the introduction of the Kobayashi distance, the subject of

hyperbolic complex spaces and holomorphic mappings has grown to be a big industry This book gives a comprehensive and systematic account on the Carathéodory and Kobayashi distances hyperbolic complex spaces and holomorphic mappings with geometric methods A very complete list of references should be useful for prospective researchers in this area

Holomorphic Functions of Several Variables Ludger Kaup, Burchard Kaup, Gottfried Barthel, 1983 The series is devoted to the publication of monographs and high level textbooks in mathematics mathematical methods and their applications Apart from covering important areas of current interest a major aim is to make topics of an interdisciplinary nature accessible to the non specialist The works in this series are addressed to advanced students and researchers in mathematics and theoretical physics In addition it can serve as a guide for lectures and seminars on a graduate level The series de Gruyter Studies in Mathematics was founded ca 35 years ago by the late Professor Heinz Bauer and Professor Peter Gabriel with the aim to establish a series of monographs and textbooks of high standard written by scholars with an international reputation presenting current fields of research in pure and applied mathematics While the editorial board of the Studies has changed with the years the aspirations of the Studies are unchanged In times of rapid growth of mathematical knowledge carefully written monographs and textbooks written by experts are needed more than ever not least to pave the way for the next generation of mathematicians In this sense the editorial board and the publisher of the Studies are devoted to continue the Studies as a service to the mathematical community Please submit any book proposals to Niels Jacob Titles in planning include Flavia Smarazzo and Alberto Tesei Measure Theory Radon Measures Young Measures and Applications to Parabolic Problems 2019 Elena Cordero and Luigi Rodino Time Frequency Analysis of Operators 2019 Mark M Meerschaert Alla Sikorskii and Mohsen Zayernouri Stochastic and Computational Models for Fractional Calculus second edition 2020 Mariusz Lemańczyk Ergodic Theory Spectral Theory Joinings and Their Applications 2020 Marco Abate Holomorphic Dynamics on Hyperbolic Complex Manifolds 2021 Miroslava Antic Joeri Van der Veken and Luc Vrancken Differential Geometry of Submanifolds Submanifolds of Almost Complex Spaces and Almost Product Spaces 2021 Kai Liu Ilpo Laine and Lianzhong Yang Complex Differential Difference Equations 2021 Rajendra Vasant Gurjar Kayo Masuda and Masayoshi Miyanishi Affine Space Fibrations 2022

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### **Table of Contents Bicomplex Holomorphic Functions The Algebra Geometry And Analysis Of Bicomplex Numbers Frontiers In Mathematics**

1. Understanding the eBook Bicomplex Holomorphic Functions The Algebra Geometry And Analysis Of Bicomplex Numbers Frontiers In Mathematics
  - The Rise of Digital Reading Bicomplex Holomorphic Functions The Algebra Geometry And Analysis Of Bicomplex Numbers Frontiers In Mathematics
  - Advantages of eBooks Over Traditional Books
2. Identifying Bicomplex Holomorphic Functions The Algebra Geometry And Analysis Of Bicomplex Numbers Frontiers In Mathematics
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms



- Features to Look for in an Bicomplex Holomorphic Functions The Algebra Geometry And Analysis Of Bicomplex Numbers Frontiers In Mathematics
  - User-Friendly Interface
4. Exploring eBook Recommendations from Bicomplex Holomorphic Functions The Algebra Geometry And Analysis Of Bicomplex Numbers Frontiers In Mathematics
    - Personalized Recommendations
    - Bicomplex Holomorphic Functions The Algebra Geometry And Analysis Of Bicomplex Numbers Frontiers In Mathematics User Reviews and Ratings
    - Bicomplex Holomorphic Functions The Algebra Geometry And Analysis Of Bicomplex Numbers Frontiers In Mathematics and Bestseller Lists
  5. Accessing Bicomplex Holomorphic Functions The Algebra Geometry And Analysis Of Bicomplex Numbers Frontiers In Mathematics Free and Paid eBooks
    - Bicomplex Holomorphic Functions The Algebra Geometry And Analysis Of Bicomplex Numbers Frontiers In Mathematics Public Domain eBooks
    - Bicomplex Holomorphic Functions The Algebra Geometry And Analysis Of Bicomplex Numbers Frontiers In Mathematics eBook Subscription Services
    - Bicomplex Holomorphic Functions The Algebra Geometry And Analysis Of Bicomplex Numbers Frontiers In Mathematics Budget-Friendly Options
  6. Navigating Bicomplex Holomorphic Functions The Algebra Geometry And Analysis Of Bicomplex Numbers Frontiers In Mathematics eBook Formats
    - ePub, PDF, MOBI, and More
    - Bicomplex Holomorphic Functions The Algebra Geometry And Analysis Of Bicomplex Numbers Frontiers In Mathematics Compatibility with Devices
    - Bicomplex Holomorphic Functions The Algebra Geometry And Analysis Of Bicomplex Numbers Frontiers In Mathematics Enhanced eBook Features
  7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Bicomplex Holomorphic Functions The Algebra Geometry And Analysis Of Bicomplex Numbers Frontiers In Mathematics
    - Highlighting and Note-Taking Bicomplex Holomorphic Functions The Algebra Geometry And Analysis Of Bicomplex Numbers Frontiers In Mathematics

- Interactive Elements Bicomplex Holomorphic Functions The Algebra Geometry And Analysis Of Bicomplex Numbers Frontiers In Mathematics
- 8. Staying Engaged with Bicomplex Holomorphic Functions The Algebra Geometry And Analysis Of Bicomplex Numbers Frontiers In Mathematics
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Bicomplex Holomorphic Functions The Algebra Geometry And Analysis Of Bicomplex Numbers Frontiers In Mathematics
- 9. Balancing eBooks and Physical Books Bicomplex Holomorphic Functions The Algebra Geometry And Analysis Of Bicomplex Numbers Frontiers In Mathematics
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Bicomplex Holomorphic Functions The Algebra Geometry And Analysis Of Bicomplex Numbers Frontiers In Mathematics
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Bicomplex Holomorphic Functions The Algebra Geometry And Analysis Of Bicomplex Numbers Frontiers In Mathematics
  - Setting Reading Goals Bicomplex Holomorphic Functions The Algebra Geometry And Analysis Of Bicomplex Numbers Frontiers In Mathematics
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Bicomplex Holomorphic Functions The Algebra Geometry And Analysis Of Bicomplex Numbers Frontiers In Mathematics
  - Fact-Checking eBook Content of Bicomplex Holomorphic Functions The Algebra Geometry And Analysis Of Bicomplex Numbers Frontiers In Mathematics
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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