

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

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**Bicomplex Holomorphic Functions The Algebra**

Bicomplex Holomorphic Functions: The Algebra, Geometry and Analysis of Bicomplex Numbers (Frontiers in Mathematics) 1st ed. 2015 Edition, Kindle Edition. by. M. Elena Luna-Elizarrarás (Author) › Visit Amazon's M. Elena Luna-Elizarrarás Page.

**Bicomplex Holomorphic Functions: The Algebra, Geometry and ...**

Bicomplex Holomorphic Functions The Algebra, Geometry and Analysis of Bicomplex Numbers. Authors: Luna-Elizarrarás, M.E., Shapiro, M., Struppa, D.C., Vajiac, A. Free Preview. Presents a comprehensive study of the analysis and geometry of bicomplex numbers; Offers a fundamental reference work for the field of bicomplex analysis ...

**Bicomplex Holomorphic Functions - The Algebra, Geometry ...**

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.

**Bicomplex Holomorphic Functions: The Algebra, Geometry and ...**

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.

**Bicomplex holomorphic functions : the algebra, geometry ...**

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.

**Bicomplex Holomorphic Functions | Springer for Research ...**

The bicomplex functions of interest are the holomorphic ones, which are characterized by the fact that they are differentiable. They are almost isomorphic to the complex holomorphic functions, not surprisingly, because the operations of the bicomplex algebra are almost isomorphic to those of the complex algebra.

**arXiv:math/0101200v1 [math.CV] 24 Jan 2001**

Our goal is to show that a function theory on bicomplex numbers is, in some sense, a better generalization of the theory of holomorphic functions of one variable, than the classical theory of holomorphic functions in two complex variables.

**Bicomplex Numbers and their Elementary Functions**

The elementary bicomplex functions are defined and their properties studied. The derivative of a bicomplex function is defined as the limit of a fraction with nonsingular denominator. The existence of the derivative amounts to the validity of the complexified Cauchy-Riemann equations, which characterize the holomorphic bicomplex functions.

**Bicomplex algebra and function theory - CORE**

Certain results on entire functions defined by bicomplex Dirichlet series. ... Bicomplex Holomorphic Functions: The Algebra, Geometry and Analysis of Bicomplex Numbers, Springer International Publishing, (2015) G. B. Price, An int. to multicomplex space and Functions, Marcel Dekker (1991). ...

**Certain results on entire functions defined by bicomplex ...**

Bicomplex Holomorphic Functions: The Algebra, Geometry and Analysis of Bicomplex Numbers (Frontiers in Mathematics) 1st ed. 2015 Edition

**Bicomplex Holomorphic Functions: The Algebra, Geometry and ...**

This treatise investigates holomorphic functions defined on the space of bicomplex numbers introduced by Segre. The theory of these functions is associated with Fueter's theory of regular, quaternionic functions. The algebras of quaternions and bicomplex numbers are developed by making use of so-called complex pairs.

**Bicomplex algebra and function theory - NASA/ADS**

Bicomplex Holomorphic Functions: The Algebra, Geometry and Analysis of Bicomplex Numbers M. Elena Luna-Elizarrarás, Michael Shapiro, Daniele C. Struppa, Adrian Vajiac (auth.) The purpose of this book is to develop the foundations of the theory of holomorphicity on the ring of bicomplex numbers.

**Bicomplex Holomorphic Functions: The Algebra, Geometry and ...**

In this paper we introduce the algebra of bicomplex numbers as a generalization of the field of complex numbers. We describe how to define elementary functions in such an algebra (polynomials,...

**(PDF) Bicomplex Numbers and Their Elementary Functions**

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  $\mathbb{C}$  numbers; from this perspective, the bicomplex algebra possesses the properties of a one-dimensional theory inside four real dimensions.

**Bicomplex holomorphic functions: the algebra, geometry and ...**

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  $\mathbb{C}$  complexification of the field of complex  $\mathbb{C}$ .

**M.E. Luna-Elizarraras, M. Sha - yurinsha.com**

While the algebra of bicomplex numbers is a four-dimensional real algebra, it is useful to think of it as a  $\mathbb{C}$  complexification of the field of complex  $\mathbb{C}$  numbers; from this perspective, the bicomplex algebra possesses the properties of a one-dimensional theory inside four real dimensions.

**Bicomplex holomorphic functions : the algebra, geometry ...**

Bicomplex Holomorphic Functions : 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.

**Bicomplex Holomorphic Functions - Adrian Vajiac, M. Elena ...**

The theory of several complex variables gives rise to a functional calculus that is based on the joint spectrum of operators. The analysis of bicomplex holomorphic functions started in the thirties with the works of Scorza Dragoni and Spampinato, see, ...

**Bicomplex holomorphic functional calculus**

Bicomplex Holomorphic Functions: The Algebra, Geometry and Analysis of Bicomplex Numbers (Frontiers in Mathematics) Luna-Elizarrarás, Maria Elena, Shapiro, Michael, Struppa, Daniele C., Vajiac, Adrian This book presents the foundations of the theory of holomorphicity on the ring of bicomplex numbers.

**Daniele Struppa Publications | President's Office ...**

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