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Some properties of T-operator with bihypermonogenic kernel in Clifford analysis. (English)

Zbl 1371.30045

Complex Var. Elliptic Equ. 62, No. 7, 938-956 (2017).

Summary: In this paper, we give the definition of T-operator with bihypermonogenic kernel in Clifford analysis and discuss a series of properties of this operator, such as uniform boundness, Hölder continuity and γ-integrability. T-operator is a singular integral operator which is defined in the n-dimensional Euclidean space valued in the noncommutative Clifford algebra. The properties of T-operator play an important role in solving differential equations.

MSC:

30G35	Functions of hypercomplex variables and generalized variables	Cited in **1** Document
30E20	Integration, integrals of Cauchy type, integral representations of analytic functions in the complex plane	

Keywords:

hypermonogenic functions; bihypermonogenic functions; singular integral operator

Full Text: DOI

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