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T1 - Spinor-valued and Clifford algebra-valued harmonic polynomials. AU - Homma, Yasushi. PY - 2001/2/1. Y1 - 2001/2/1. N2 - We give decompositions of the spinor-valued and the Clifford algebra-valued harmonic polynomials on  $R^n$ . In order to do so, we

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consider some differential complexes and show that these are exact.

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Similarly, we can regard the sections of the spinor bundle (resp. the Clifford bundle) as the spinor-valued (resp. the Clifford algebra-valued) harmonic polynomials. Let  $H^q$  be the space of the harmonic polynomials with degree  $q$  on  $\mathbb{R}^n$ . We consider  $H^q \otimes W$  and  $H^q \otimes C$ , where  $W$  is the space of spinors and  $C$  is the Clifford algebra.

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## **Clifford Algebra And Spinor Valued Functions A Function ...**

Introduction and basic properties. A Clifford algebra is a unital associative algebra that contains and is generated by a vector space  $V$  over a field  $K$ , where  $V$  is equipped with a quadratic form  $Q : V \rightarrow K$ . The Clifford algebra  $Cl(V, Q)$  is the "freest" algebra generated by  $V$  subject to the condition  $v^2 = Q(v) \cdot 1$ , where the product on the left is that of the algebra, and the  $1$  is its multiplicative ...

## **Clifford algebra - Wikipedia**

The Clifford algebra is an associative algebra that can be constructed from Euclidean space and its inner product in a basis-independent way. Both the spin group and its Lie algebra are

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embedded inside the Clifford algebra in a natural way, and in applications the Clifford algebra is often the easiest to work with.

## **Spinor - Wikipedia**

Abstract. The aim of this chapter is to gather some basic results concerning real and complex Clifford algebras. All material covered is classical, exception made of the approach given in §§4.7 – 4.8 to the explicit realization of spinor space and a Hermitian structure on it.

## **Clifford Algebras and Spinor Spaces | SpringerLink**

The Clifford Algebra is  $f_{ji}; g= 2ij$ : (1) The point of studying Clifford algebra is that once you find representations of Clifford algebra you can immediately construct representations of  $Spin(N)$ . Generators of

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## Notes on Clifford Algebra and Spin(N) Representations

In this construction the representation of the Clifford algebra  $C^k(V, g)$ , the Lie algebra  $so(V, g)$ , and the Spin group  $Spin(V, g)$ , all depend on the choice of the orthonormal basis and the choice of the gamma matrices. This can cause confusion over conventions, but invariants like traces are independent of choices.

## Spinors | Mathematics and Physics Wiki | Fandom

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## Amazon.com: Customer reviews: Clifford Algebra and Spinor Applications Volume 53

In mathematics, Clifford algebras are a type of associative algebra. As  $K$ -algebras, they generalize the real numbers, complex numbers, quaternions and several other hypercomplex number systems. [1] [2] The theory of Clifford algebras is intimately connected with the theory of quadratic forms and orthogonal transformations. Clifford algebras have important applications in a variety of fields ...

### **Clifford algebra - en.wikipedia-on-ipfs.org**

Clifford analysis studies functions with values in a Clifford algebra, and, as such, is a direct generalization to higher dimensions of the classical theory of functions of one complex variable (cf. Functions

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### **Clifford analysis - Encyclopedia of Mathematics**

Delanghe, Sommen, Soucek - Clifford algebra and spinor-valued functions

Doran, Lasenby - Geometric algebra for physicists

Hestenes, Sobczyk - Clifford algebra to geometric calculus

Lawson, Michelsohn - Spin geometry (First chapter)

Lounesto - Clifford algebras and spinors

Riesz - Clifford numbers and spinors

Learning outcomes

### **Clifford algebra, geometric algebra, and applications**

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Clifford Algebras and Spinor Structures Book Review: This volume is dedicated to the memory of Albert Crumeyrolle, who died on June 17, 1992. In organizing the volume we gave priority to:

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