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Spinor-valued and Clifford algebra-valued harmonic ...

Similarly, we can regard the sections of the spinor bundle (resp. the

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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 $H^q \otimes W^n$ and $H^q \otimes C\ell^n$, where W^n is the space of spinors and $C\ell^n$ is the Clifford algebra.

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

Spinor - Wikipedia

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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 $\mathbb{C} \langle j_i \rangle$; $g = 2ij$: (1) The point of studying Clifford algebra is that once you find representations of Clifford algebra you can immediately construct representations of $\text{Spin}(N)$. Generators of rotations in $\text{Spin}(N)$ are given by $M_{ij} = \frac{1}{4} [$

Notes on Clifford Algebra and $\text{Spin}(N)$ Representations

In this construction the representation of the Clifford algebra $C^{\epsilon}(V,$

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The Dirac Operator Mathematics And Its Applications Volume 53
g), the Lie algebra $\mathfrak{so}(V, g)$, and the Spin group $\text{Spin}(V, g)$, 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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In mathematics, Clifford algebras are a type of associative algebra. As K -algebras, they generalize the real numbers, complex

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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 of a complex variable, theory of). It has its roots in quaternionic analysis, which was developed from the 1920s onwards as an, albeit modest, counterpart of the theory of two complex variables.

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Clifford analysis - Encyclopedia of Mathematics And Its

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: articles summarizing Crumeyrolle's own work in differential geometry, general relativity and spinors, articles which give the reader an idea of the depth and ...

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