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Clifford Algebras and Spinor Spaces | SpringerLink
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
Abstract: Expository notes on Clifford algebras and spinors with a detailed discussion of Majorana, Weyl, and Dirac spinors. The paper is meant as a review of background material, needed, in particular, in now fashionable theoretical speculations on neutrino masses.

Mathematics and Its Applications: Clifford Algebra and ...
title = "Spinor-valued and Clifford algebra-valued harmonic polynomials", abstract = "We give decompositions of the spinor-valued and the Clifford algebra-valued harmonic polynomials on Rn. In order to do so, we consider some differential complexes and show that these are exact.

[1106.3197] Clifford Algebras and Spinors - arXiv
Spin and Clifford algebras, an introduction. 7th International Conference on Clifford Algebras and their Applications, May 2005, Toulouse (France), France. pp.687-720, 10.1007/s00006- 009-0187-y. hal-00502337

Spin and Clifford algebras, an introduction
In mathematics, a Clifford algebra is an algebra generated by a vector space with a quadratic form, and is a unital associative algebra.As K-algebras, they generalize the real numbers, complex numbers, quaternions and several other hypercomplex number systems. The theory of Clifford algebras is intimately connected with the theory of quadratic forms and orthogonal transformations.

(PDF) "An Introduction to Clifford Algebras and Spinors ...
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 and spinor-valued functions: a function ...
CLIFFORD ALGEBRA Cl3,0-VALUED WAVELET TRANSFORMATION, CLIFFORD WAVELET UNCERTAINTY INEQUALITY AND CLIFFORD GABOR WAVELETS. International Journal of Wavelets, Multiresolution and Information Processing, Vol. 05, Issue. 06, p. 997. ... 17 - Spin groups and spinor spaces pp 219-230. Get access. Check if you have access via personal or ...

Clifford Algebra And Spinor Valued
Clifford Algebra and Spinor-Valued Functions: A Function Theory for the Dirac Operator (Mathematics and Its Applications) (Volume 53) Softcover reprint of the original 1st ed. 1992 Edition by R. Delanghe (Author), F. Sommen (Author), V. Soucek (Author) & 0 more

Clifford Algebra and Spinor-Valued Functions - A Function ...
For example, spaces of spinor-valued functions on the sphere are spaces of the so-called spherical monogenics. They are spinor-valued polynomial solutions of the Dirac equations on R n, , , . The Clifford algebra-valued fields and other examples

are studied in , , , , , . In this paper, we give a new approach to analyze the Clifford algebra-valued or the exterior algebra-valued fields on the sphere.

Clifford algebra and spinor-valued functions : a function ...
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Clifford Algebras and Spinors by Pertti Lounesto
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 Algebra and Spinor-Valued Functions | SpringerLink
Chapters II and III illustrate how Clifford analysis extends and refines the computational tools available in complex analysis in the plane or harmonic analysis in space. In Chapter IV the concept of monogenic differential forms is generalized to the case of spin-manifolds. ... Clifford algebra and spinor-valued functions: a function theory for ...

Clifford Algebra and Spinor-Valued Functions: A Function ...
Clifford Algebra and Spinor-Valued Functions A Function Theory for the Dirac Operator Authors: Delanghe, R., Sommen, F., Soucek, V.

Spinor-valued and Clifford algebra-valued harmonic ...
Clifford Algebra and Spinor-Valued Functions A Function Theory for the Dirac Operator. Authors (view affiliations) ... Clifford Algebras and Spinor Spaces. R. Delanghe, F. Sommen, V. Souček. Pages 48-128 ... Complex analysis Dirac Laplace operator Microsoft Access Volume clifford algebra computation computer development function group harmonic ...

Clifford algebra - Wikipedia
"An Introduction to Clifford Algebras and Spinors" (Oxford University Press) ... The Clifford algebra over the field of real numbers is best known in physics and engineering as Geometric Algebra ...

Spinor-valued and Clifford algebra-valued harmonic ...
"An Introduction to Clifford Algebras and Spinors, by Jayme Vaz Jr. and Roldão da Rocha Jr. is a thoughtful exposition of the main results of the theory of Clifford algebras and spinors. It is really an essential book to any student that wants to understand and grasp the several different (but under certain conditions equivalent) concepts of ...

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Get this from a library! Clifford Algebra and Spinor-Valued Functions : a Function Theory for the Dirac Operator. [R Delanghe; F Sommen; V Souček] -- This volume describes the substantial developments in Clifford analysis which have taken place during the last decade and, in particular, the role of the spin group in the study of null solutions of ...

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Clifford algebra, geometric algebra, and applications
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