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CLIFFORD ALGEBRA AND SPINOR VALUED FUNCTIONS A FUNCTION THEORY FOR THE DIRAC OPERATOR MATHEMATICS AND ITS APPLICATIONS VOLUME 53 PDF - Search results, In geometry and physics, spinors are elements of a vector space that can be associated with Euclidean space. Like geometric vectors and more general tensors, spinors transform linearly when the Euclidean space is subjected to a slight (infinitesimal) rotation. When a sequence of such small rotations is composed to form an overall final rotation, however, the resulting spinor transformation ..., In physics, the algebra of physical space (APS) is the use of the Clifford or geometric algebra $Cl_{3,0}(\mathbb{R})$ of the three-dimensional Euclidean space as a model for (3+1)-dimensional spacetime, representing a point in spacetime via a paravector (3-dimensional vector plus a 1-dimensional scalar).. The Clifford algebra $Cl_{3,0}(\mathbb{R})$ has a faithful representation, generated by Pauli matrices, on the ..., This thesis is an investigation into the properties and

applications of Clifford's geometric algebra. Topics covered includes: Grassmann Algebra and Berezin Calculus, Lie Groups and Spin Groups, Spinor Algebra, Point-particle Lagrangians, Field Theory, Gravity as a Gauge Theory., References. A standard textbook reference is. H. Blaine Lawson, Marie-Louise Michelsohn, chapter 1, section 2 of Spin geometry, Princeton University Press (1989); See also. Veeravalli Varadarajan, section 7 of Supersymmetry for mathematicians: An introduction, Courant lecture notes in mathematics, American Mathematical Society, Providence, R.I (2004) ..., Der Titel dieses Artikels ist mehrdeutig. Weitere Bedeutungen sind unter Algebra (Begriffsklärung) aufgeführt.

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