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By so doing, it is demonstrated that tensors and Dirac spinors are tools which readily facilitate understanding, greatly simplifying the mathematics. The second part, more rigorous, treats in a dassical manmer the connection between tensors and

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## **Vectors, covectors, duality, tensors, algebras... -**

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## **Numericana**

Topics in Representation Theory: Clifford Algebras ... on general tensors (el- ... algebra, a structure which will include the groups  $Spin(n)$ , but much else be-sides. 1 Clifford Algebras A Clifford algebra is associated to a vector space  $V$  with inner product, in much

## **Topics in Representation Theory: Clifford Algebras**

The tensor algebra is important because many other algebras arise as quotient algebras of  $T(V)$ . These include the exterior algebra, the symmetric algebra, Clifford algebras, the Weyl algebra and universal enveloping algebras.

## **Tensor algebra**

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## **Tensors and the Clifford algebra : application to the ...**

The essential idea is this: despite the fact that Clifford algebras have non-zero quadratic form in general, we can still "piggyback" on the embedding of the exterior algebra in the tensor algebra to represent the Clifford algebra, regardless of the choice of quadratic form.

## **Is there a way to embed Clifford algebras into the ...**

Tensors and Matrices. As noted above a bivector can be written as a skew-symmetric matrix, which through the exponential map generates a rotation matrix that describes the same rotation as the rotor, also generated by the exponential map but applied to the vector. But it is also used with other bivectors such as the angular velocity tensor and the electromagnetic tensor, respectively a  $3 \times 3$  and ...

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## **Tensors and the Clifford algebra : application to the ...**

Tensor densities of the Dirac theory appear very different when Clifford algebra is used. We shall see this here only for tensors without derivatives. These 16 tensor densities described in section 2.1.3 are usually presented as only possible as a result of the 16 dimensions of the algebra generated by Dirac matrices 7 .

## **Tensors**

The advance of Clifford algebra, what makes it distinct from regular algebra, is that these are no longer tensor products, but just plain products,  $e*f$ , and they are equivalent to tensors if  $e$  and  $f$  are of sufficiently high grade, and the products of higher grade clifs (multivectors) correspond to third-order, fourth-order, and higher order tensors.

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